

small methods

Supporting Information

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V₄C₃ MXene Immune Profiling and Modulation of
T Cell-Dendritic Cell Function and Interaction

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sampleID_original	sampleID	Sample_name	Condition	Timepoint	MATERIAL
ID4.CTRL.T24.A_0700761761	ID4_CTRL_T24_A	ID4	Unt	T24	Unt
ID4.CTRL.T24.B_0700761771	ID4_CTRL_T24_B	ID4	Unt	T24	Unt
ID4.CTRL.T24.C_0700761781	ID4_CTRL_T24_C	ID4	Unt	T24	Unt
ID10.MX4.T24.A_0700761941	ID10_MX4_T24_A	ID10	MX4	T24	V4C3
ID10.MX4.T24.B_0700761951	ID10_MX4_T24_B	ID10	MX4	T24	V4C3
ID10.MX4.T24.C_0700761961	ID10_MX4_T24_C	ID10	MX4	T24	V4C3

Gene	ID4.CTRL.T24.A_0700761761	ID4.CTRL.T24.B_0700761771	ID4.CTRL.T24.C_0700761781	ID10.MX4.T24.A_0700761941	ID10.MX4.T24.B_0700761951	ID10.MX4.T24.C_0700761961
A1BG	0	0	0	0	0	0
A1BG-AS1	12	8	9	6	7	0
A1CF	0	0	0	1	0	13
A2M	23	19	7	1	0	0
A2ML1	0	0	0	0	0	0
A2MP1	0	0	1	6	0	19
A4GALT	2	9	6	0	0	0
A4GNT	0	0	0	0	0	0
AAAS	18	13	11	6	4	13
AACS	37	47	58	48	49	24
AACSP1	0	0	0	13	4	8
AADAC	2	5	3	13	27	24
AADACL2	0	0	0	0	0	0
AADACL3	0	0	0	0	0	0
AADACL4	0	0	0	0	0	0
AADAT	0	0	0	4	12	13
AAGAB	111	111	128	103	129	107
AAK1	456	478	593	573	508	591
AAAMP	247	280	239	206	281	154
AAANAT	0	0	0	0	0	0
AARS	146	187	171	173	155	84
AARS2	5	4	5	9	2	0
AARSD1	5	6	5	1	27	13
AASDH	93	80	99	87	111	46
AASDHPPT	240	224	177	323	300	355
AASS	2	4	3	4	7	3
AATF	83	94	82	123	90	94
AATK	39	58	31	6	2	3
ABAT	32	25	29	60	43	79
ABCA1	139	152	148	28	21	19
ABCA10	4	8	8	9	24	13
ABCA11P	2	2	2	43	15	40
ABCA12	2	0	0	1	2	13
ABCA13	0	6	6	34	27	46
ABCA17P	0	0	0	0	4	8
ABCA2	14	17	26	6	18	19
ABCA3	0	1	0	0	0	3
ABCA4	0	0	0	0	0	0
ABCA5	152	146	165	157	108	154
ABCA6	10	4	5	9	12	24
ABCA7	37	31	55	40	33	35
ABCA8	4	0	12	9	0	30
ABCA9	9	0	1	31	12	56
ABCB1	85	67	76	119	151	162
ABCB10	38	32	45	31	21	30
ABCB11	4	0	1	6	15	19
ABCB4	11	13	13	63	33	75
ABCB5	0	0	0	4	2	19
ABCB6	4	0	1	6	0	0
ABCB7	139	130	154	134	164	128
ABCB8	12	7	14	6	9	0
ABCB9	4	1	0	6	2	0
ABCC1	121	101	147	125	92	185
ABCC10	32	38	23	9	4	0
ABCC11	0	0	0	0	0	0
ABCC12	0	0	0	0	0	0
ABCC13	5	4	7	13	49	61
ABCC2	0	8	6	58	35	147
ABCC3	31	46	43	0	9	0
ABCC4	74	66	53	63	41	40
ABCC5	72	76	87	87	100	75
ABCC6	0	1	0	0	0	0
ABCC6P1	0	5	2	9	4	35
ABCC6P2	0	0	0	0	0	0
ABCC8	0	0	0	0	0	8
ABCC9	17	20	13	114	137	179
ABCD1	15	14	18	1	9	3
ABCD2	31	24	36	40	43	30
ABCD3	106	121	109	171	230	288
ABCD4	44	55	51	76	41	30
ABCE1	286	260	258	276	259	385
ABCF1	501	493	617	345	527	241
ABCF2	38	43	44	60	49	71
ABCF3	28	29	31	6	18	13
ABCG1	36	31	36	48	30	3
ABCG2	12	8	2	19	9	0
ABCG4	0	0	0	0	0	0
ABCG5	0	0	0	0	0	0
ABCG8	0	0	0	6	9	0
ABHD1	0	0	0	4	2	0
ABHD10	89	68	59	40	79	51
ABHD11	7	7	6	0	0	0
ABHD12	111	127	124	6	7	0
ABHD12B	0	0	0	0	0	0
ABHD13	171	120	165	187	195	207
ABHD14A	17	8	12	4	2	0
ABHD14A-ACY1	0	0	0	0	0	0
ABHD14B	69	77	84	98	92	103
ABHD15	87	74	95	90	113	61
ABHD16A	2	7	11	0	2	0
ABHD16B	0	0	0	0	0	0
ABHD2	502	442	426	339	350	343
ABHD3	209	170	226	123	95	112
ABHD4	22	26	15	13	24	24
ABHD5	190	158	145	72	84	94
ABHD6	29	23	23	13	15	13
ABHD8	12	9	5	1	2	0
ABI1	438	461	449	427	397	352
ABI2	107	117	100	217	219	207
ABI3	50	46	45	6	21	3
ABI3BP	0	0	0	1	4	8
ABL1	114	133	133	98	124	79

ABL2	121	118	104	79	90	84
ABLJM1	336	364	420	777	781	668
ABLJM2	1	2	1	1	2	0
ABLJM3	0	0	0	0	0	13
ABO	0	0	0	0	0	3
ABR	326	305	326	100	97	89
ABRA	0	0	0	0	0	0
ABT1	98	115	104	163	144	179
ABTB1	38	32	39	28	43	3
ABTB2	0	0	2	0	2	0
ACAA1	119	98	80	119	103	103
ACAA2	83	67	66	51	62	19
ACACA	34	16	21	28	57	75
ACACB	22	26	25	53	54	30
ACAD10	22	34	50	60	57	51
ACAD11	0	0	2	0	4	3
ACAD8	84	57	55	90	92	35
ACAD9	25	32	18	9	2	0
ACADL	1	0	0	4	0	0
ACADM	225	215	197	252	321	297
ACADS	24	17	29	4	27	0
ACADS8	130	178	144	169	155	121
ACADVL	124	157	126	129	135	112
ACAN	0	0	0	0	2	3
ACAP1	65	71	67	103	95	75
ACAP2	583	547	554	372	309	279
ACAP3	2	9	6	22	18	3
ACAT1	62	54	52	51	27	56
ACAT2	80	83	71	40	54	46
ACBD3	397	381	339	377	382	463
ACBD4	11	6	2	9	7	0
ACBD5	234	208	213	127	149	128
ACBD6	76	60	78	74	65	75
ACBD7	0	0	0	0	0	0
ACCS	41	50	40	79	38	46
ACCSL	0	0	0	0	0	0
ACD	14	21	18	16	9	8
ACE	7	7	7	0	2	0
ACE2	0	0	0	0	0	0
ACER1	0	0	0	0	0	0
ACER2	0	0	0	0	0	0
ACER3	61	56	72	28	38	19
ACHE	0	0	0	0	0	0
ACIN1	347	397	411	313	292	271
ACLY	225	222	200	206	174	143
ACMSD	0	0	0	0	0	0
ACO1	41	56	55	25	46	30
ACO2	140	178	158	155	131	173
ACOT1	0	0	0	0	0	0
ACOT11	7	21	22	0	0	0
ACOT12	0	0	0	0	0	3
ACOT13	125	117	133	43	43	13
ACOT2	15	15	22	19	9	8
ACOT4	7	6	13	0	0	19
ACOT6	0	0	0	0	2	0
ACOT7	11	7	6	0	9	0
ACOT8	24	33	18	28	43	13
ACOT9	99	95	76	19	27	24
ACOX1	113	120	107	45	52	51
ACOX2	0	0	0	0	0	0
ACOX3	29	40	37	19	7	8
ACOXL	0	0	0	4	7	8
ACP1	292	283	291	412	419	365
ACP2	96	125	98	0	27	0
ACP5	147	174	183	6	15	0
ACP6	32	31	34	79	49	61
ACPP	45	42	37	0	0	0
ACR	0	0	0	0	0	0
ACRBP	2	2	1	6	9	13
ACRV1	0	0	0	0	0	0
ACSBG1	0	0	0	1	0	0
ACSBG2	0	0	0	0	0	0
ACSF2	6	7	7	1	4	0
ACSF3	56	31	41	63	69	84
ACSL1	134	127	109	25	43	19
ACSL3	406	377	334	371	387	411
ACSL4	438	464	355	234	191	224
ACSL5	88	100	89	66	84	94
ACSL6	74	69	59	110	90	94
ACSM1	0	0	1	0	0	0
ACSM2A	0	0	1	0	0	0
ACSM2B	0	1	2	4	2	3
ACSM3	31	30	39	45	35	30
ACSM4	0	1	0	9	4	13
ACSM5	0	0	0	6	2	3
ACSS1	109	171	181	190	195	132
ACSS2	10	23	22	0	7	3
ACSS3	1	2	5	13	7	51
ACTA1	0	0	0	0	0	0
ACTA2	5	8	8	40	43	24
ACTB	1585	1564	1388	495	650	459
ACTBL2	0	0	0	0	7	19
ACTC1	0	0	0	1	0	0
ACTG1	3192	3147	2551	1190	1323	871
ACTG2	0	0	0	0	0	0
ACTL10	4	0	1	0	0	0
ACTL6A	93	105	88	76	60	40
ACTL6B	0	0	0	0	0	0
ACTL7A	0	0	0	0	0	0
ACTL7B	0	0	0	0	0	0
ACTL8	0	0	0	0	0	0
ACTL9	0	0	0	0	0	0
ACTN1	320	455	384	441	478	369

ACTN2	1	0	0	0	0	0
ACTN3	0	0	1	0	0	0
ACTN4	361	325	371	288	309	241
ACTR10	247	279	257	257	274	213
ACTR1A	56	66	74	22	35	3
ACTR1B	147	150	152	184	232	94
ACTR2	2486	2274	2244	1537	1650	1604
ACTR3	1450	1427	1302	813	718	783
ACTR3B	13	19	17	22	9	30
ACTR3BP2	0	0	0	0	0	0
ACTR3BP5	0	0	0	0	0	0
ACTR3C	0	5	0	1	0	13
ACTR5	18	28	26	19	9	8
ACTR6	188	178	186	207	199	188
ACTR8	42	49	35	19	18	46
ACTRT1	0	0	0	0	0	0
ACTRT2	0	0	0	0	0	0
ACVR1	52	37	51	16	24	3
ACVR1B	113	117	91	56	95	121
ACVR1C	47	37	55	103	92	112
ACVR2A	41	31	41	48	21	51
ACVR2B	24	30	36	72	57	56
ACVRL1	20	20	8	0	0	0
ACY1	0	1	1	1	0	0
ACY3	0	0	0	0	0	0
ACYP1	75	79	71	63	77	71
ACYP2	29	22	23	48	27	51
ADA	55	60	60	6	15	0
ADAD1	0	0	0	0	0	0
ADAD2	0	0	0	0	0	0
ADAL	47	46	39	103	115	121
ADAM10	608	560	486	461	365	329
ADAM11	0	0	0	0	0	0
ADAM12	1	6	6	13	27	30
ADAM15	26	50	30	0	9	13
ADAM17	316	329	297	280	283	279
ADAM18	0	0	0	0	0	0
ADAM19	55	47	55	76	84	35
ADAM2	0	0	1	0	0	0
ADAM20	0	7	2	6	2	8
ADAM21	0	0	0	0	0	0
ADAM21P1	0	0	0	0	0	0
ADAM22	11	8	12	6	7	3
ADAM23	18	25	24	51	9	75
ADAM28	241	259	312	121	72	79
ADAM29	1	0	1	1	0	8
ADAM30	0	0	0	0	0	0
ADAM32	4	1	1	6	7	24
ADAM33	0	0	0	0	0	0
ADAM3A	0	0	0	0	0	0
ADAM6	0	0	0	0	0	0
ADAM7	2	0	3	1	0	8
ADAM8	410	441	405	424	438	237
ADAM9	186	184	187	28	62	46
ADAMDEC1	343	289	290	1	18	0
ADAMTS1	5	5	3	0	0	0
ADAMTS10	2	4	12	22	7	8
ADAMTS12	1	0	0	0	2	8
ADAMTS13	1	0	0	0	2	0
ADAMTS14	0	0	0	0	0	0
ADAMTS15	0	0	0	0	0	0
ADAMTS16	0	0	0	0	2	0
ADAMTS17	0	0	0	1	0	0
ADAMTS18	0	2	2	6	7	30
ADAMTS19	2	1	1	1	0	8
ADAMTS2	0	1	0	0	0	3
ADAMTS20	1	0	0	0	0	0
ADAMTS3	0	0	1	0	0	46
ADAMTS4	1	0	0	4	9	24
ADAMTS5	5	6	9	45	38	117
ADAMTS6	12	8	17	31	18	46
ADAMTS7	0	0	0	0	0	0
ADAMTS8	0	0	0	0	0	0
ADAMTS9	5	2	1	19	49	56
ADAMTS9-AS2	0	1	2	6	24	13
ADAMTSL1	0	0	0	0	0	0
ADAMTSL2	0	0	0	0	0	0
ADAMTSL3	0	1	3	0	2	8
ADAMTSL4	4	5	0	0	0	0
ADAMTSL5	0	0	0	0	0	0
ADAP1	29	35	52	6	9	8
ADAP2	88	94	94	22	4	3
ADAR	539	591	598	613	564	604
ADARB1	32	32	24	40	27	13
ADARB2	2	2	2	13	7	0
ADARB2-AS1	0	0	0	0	0	0
ADAT1	50	23	47	121	69	143
ADAT2	39	38	44	43	69	75
ADAT3	0	0	0	0	0	0
ADCK1	2	4	2	1	0	0
ADCK2	63	80	51	114	97	79
ADCK5	0	4	1	0	2	0
ADCY1	5	6	6	13	7	46
ADCY10	0	1	0	6	0	3
ADCY2	0	1	0	22	21	30
ADCY3	23	15	14	4	12	3
ADCY4	0	0	1	13	4	0
ADCY5	0	0	0	0	0	0
ADCY6	0	0	0	1	0	3
ADCY7	691	671	598	343	328	288
ADCY8	0	0	0	1	0	0
ADCY9	25	23	17	4	2	0
ADCYAP1	0	2	0	4	0	3

ADCYAP1R1	0	0	0	0	0	0
ADD1	300	273	323	356	332	376
ADD2	2	1	2	9	7	3
ADD3	1313	1139	1125	1342	1174	1138
ADGB	1	0	0	1	0	0
ADH1A	0	0	0	0	0	0
ADH1B	0	1	0	6	0	3
ADH1C	0	0	0	0	0	0
ADH4	0	0	0	0	0	0
ADH5	176	174	169	226	201	154
ADH6	0	0	0	4	0	0
ADH7	1	1	0	0	0	0
ADHFE1	18	12	11	0	2	0
ADI1	268	268	254	100	129	75
ADIG	0	0	0	0	0	0
ADIPOQ	0	0	0	0	0	0
ADIPOR1	175	185	169	147	162	158
ADIPOR2	183	199	173	139	183	132
ADK	248	273	239	114	84	124
ADM	70	54	69	9	7	13
ADM2	1	4	0	4	0	0
ADNP	230	210	197	239	208	294
ADNP2	170	171	151	112	92	112
ADO	128	139	121	132	117	117
ADORA1	0	0	0	0	0	0
ADORA2A	0	0	0	0	0	0
ADORA2B	4	4	6	0	0	0
ADORA3	11	14	17	0	0	0
ADPGK	147	215	172	175	193	182
ADPRH	48	46	35	4	4	13
ADPRHL1	0	0	0	34	21	61
ADPRHL2	59	66	63	82	87	84
ADRA1A	0	0	0	0	0	0
ADRA1B	0	0	0	0	0	0
ADRA1D	0	0	0	0	2	0
ADRA2A	0	0	0	0	0	0
ADRA2B	0	0	0	58	18	51
ADRA2C	0	0	0	0	0	0
ADRB1	0	0	2	13	15	51
ADRB2	54	71	66	40	60	40
ADRB3	0	0	0	0	0	0
ADRM1	76	90	85	87	100	89
ADSL	137	142	181	117	122	94
ADSS	231	249	229	257	203	199
ADSSL1	5	2	2	6	0	0
ADTRP	48	33	42	106	131	103
AEBP1	4	2	2	4	4	0
AEBP2	116	115	124	103	117	103
AEN	39	39	30	110	67	98
AES	922	1189	1344	1417	1488	1200
AFAP1	12	16	18	16	15	8
AFAP1-AS1	0	0	0	0	0	0
AFAP1L1	0	0	0	0	0	0
AFAP1L2	4	0	2	13	0	19
AFF1	305	288	288	266	252	213
AFF2	7	1	1	0	0	0
AFF3	70	63	84	110	108	139
AFF4	427	346	330	444	362	499
AFG3L1P	111	102	147	145	133	124
AFG3L2	122	127	107	110	133	98
AFM	0	0	0	0	0	0
AFMID	13	8	9	16	4	13
AFP	0	0	0	0	0	0
AFTPH	415	395	394	470	447	467
AGA	106	105	85	110	92	61
AGAP1	22	39	23	48	27	24
AGAP11	0	0	0	0	0	0
AGAP2	82	77	87	108	124	98
AGAP3	261	371	403	139	106	40
AGAP4	5	2	0	0	0	0
AGAP5	1	1	0	0	0	0
AGAP6	14	12	9	31	18	13
AGAP9	1	0	2	1	0	0
AGBL1	2	4	2	4	24	46
AGBL2	7	13	5	22	21	8
AGBL3	14	16	8	45	30	79
AGBL4	5	2	2	28	9	24
AGBL5	12	32	30	28	30	30
AGER	21	37	37	95	46	56
AGFG1	324	305	358	479	399	576
AGFG2	19	25	23	13	27	0
AGGF1	110	147	123	232	181	192
AGK	46	62	52	40	67	13
AGL	101	93	107	151	113	89
AGMAT	6	4	5	0	7	0
AGMO	4	9	5	34	30	56
AGPAT1	67	56	85	69	95	84
AGPAT2	20	29	39	0	0	0
AGPAT3	255	264	245	153	133	213
AGPAT4	45	33	45	51	57	19
AGPAT5	205	194	163	165	203	169
AGPS	163	171	157	103	147	98
AGR2	0	0	0	0	0	0
AGR3	0	0	0	0	0	0
AGRN	5	4	6	0	2	0
AGRP	0	0	0	0	0	0
AGT	0	0	0	0	0	0
AGTPBP1	269	216	233	317	314	275
AGTR1	0	0	0	0	0	0
AGTR2	0	0	0	0	0	0
AGTRAP	46	35	34	4	9	0
AGXT	0	0	0	0	0	0
AGXT2	0	0	1	0	0	3

AHCTF1	125	98	108	143	135	147
AHCY	78	80	83	34	27	19
AHCYL1	617	616	572	515	470	411
AHCYL2	17	19	21	9	35	19
AHDC1	34	40	68	60	49	66
AHI1	103	100	116	268	201	275
AHNAK	1039	1073	1108	601	610	372
AHNAK2	0	0	0	6	7	19
AHR	233	210	229	45	52	40
AHRR	152	174	171	53	46	98
AHSA1	119	141	129	171	183	176
AHSG	0	0	0	0	0	0
AHSP	0	0	0	6	2	13
AICDA	4	5	0	25	21	24
AIDA	18	20	18	34	15	24
AIF1	904	888	767	60	67	98
AIF1L	0	0	0	0	0	0
AIFM1	77	74	68	74	79	79
AIFM2	28	28	24	22	21	30
AIFM3	1	4	0	0	0	0
AIG1	22	21	15	37	18	3
AIM2	104	90	72	45	57	61
AIMP1	197	184	154	221	217	279
AIMP2	108	100	105	34	35	3
AIP	72	105	101	103	135	89
AIPL1	0	1	0	0	0	3
AIRE	0	0	0	0	0	0
AJAP1	1	1	1	0	0	3
AJUBA	4	1	0	0	4	0
AK1	12	23	23	93	67	98
AK2	135	131	111	100	108	121
AK3	170	200	187	182	249	176
AK4	42	52	45	0	75	8
AK5	15	7	23	63	33	66
AK7	0	0	0	0	0	0
AK8	0	0	0	1	0	0
AKAP1	62	61	57	66	38	30
AKAP10	180	161	222	179	153	199
AKAP11	398	315	285	307	292	362
AKAP12	84	69	76	95	103	94
AKAP13	1338	1246	1424	1617	1497	1478
AKAP14	0	0	0	0	0	0
AKAP17A	536	553	516	752	709	748
AKAP2	0	0	0	0	0	0
AKAP3	0	0	0	1	9	51
AKAP4	0	0	0	0	0	0
AKAP5	51	32	52	53	60	66
AKAP6	2	7	1	19	15	3
AKAP7	64	56	69	93	62	103
AKAP8	174	137	157	184	159	192
AKAP8L	39	31	39	79	67	94
AKAP9	1163	897	1099	959	813	610
AKIP1	42	49	44	19	33	0
AKIRIN1	154	172	159	199	242	188
AKIRIN2	121	113	107	127	124	98
AKNA	598	666	804	587	854	534
AKNAD1	0	0	0	0	0	0
AKR1A1	287	288	273	108	133	89
AKR1B1	79	70	72	151	159	124
AKR1B10	0	0	0	0	0	0
AKR1B15	0	0	0	0	0	0
AKR1C1	1	0	0	0	0	0
AKR1C2	0	0	0	0	0	0
AKR1C3	5	5	9	9	4	3
AKR1C4	0	0	0	0	0	0
AKR1D1	0	0	0	0	0	0
AKR1E2	0	0	0	0	0	0
AKR7A2	50	41	39	45	43	13
AKR7A2P1	0	0	0	0	0	0
AKR7A3	0	0	0	0	0	0
AKR7L	0	2	1	1	7	8
AKT1	137	118	119	114	72	71
AKT1S1	24	39	52	28	21	13
AKT2	308	399	311	506	540	467
AKT3	220	206	200	309	268	321
AKTIP	34	40	23	53	46	51
ALAD	65	71	50	40	24	3
ALAS1	145	122	159	16	43	40
ALAS2	6	1	2	4	7	40
ALB	0	0	0	25	15	46
ALCAM	316	286	309	63	54	46
ALDH16A1	60	57	53	43	38	19
ALDH18A1	29	29	31	45	62	24
ALDH1A1	311	219	282	13	0	40
ALDH1A2	0	0	0	1	0	0
ALDH1A3	1	0	1	6	2	19
ALDH1B1	4	5	9	0	4	0
ALDH1L1	0	0	0	0	0	0
ALDH1L2	6	5	6	6	4	0
ALDH2	412	435	397	72	62	75
ALDH3A1	0	0	0	0	0	0
ALDH3A2	153	142	141	87	65	51
ALDH3B1	67	57	58	4	4	0
ALDH3B2	0	0	0	0	0	0
ALDH4A1	4	6	12	0	0	0
ALDH5A1	51	70	54	98	106	89
ALDH6A1	102	79	83	79	103	46
ALDH7A1	5	4	3	16	18	51
ALDH8A1	2	0	1	13	15	35
ALDH9A1	169	135	127	69	75	56
ALDOA	5	7	1	0	2	0
ALDOB	0	0	0	0	2	0
ALDOC	24	39	41	6	35	3

ALG1	29	30	28	13	7	0
ALG10	13	8	11	13	7	0
ALG10B	52	43	47	72	33	40
ALG11	80	98	91	117	103	117
ALG12	44	30	31	6	9	8
ALG13	108	95	89	114	82	112
ALG14	14	28	14	31	18	61
ALG1L	0	0	0	0	0	0
ALG1L2	0	0	0	0	0	0
ALG2	240	214	201	283	277	264
ALG3	25	39	31	13	24	8
ALG5	169	172	159	110	140	117
ALG6	58	34	34	48	30	40
ALG8	65	69	52	87	57	94
ALG9	14	16	23	19	24	24
ALK	0	0	0	0	0	0
ALKBH1	19	16	15	22	24	0
ALKBH2	19	20	16	6	52	30
ALKBH3	18	24	17	37	30	3
ALKBH4	10	5	7	0	4	3
ALKBH5	398	404	382	385	520	415
ALKBH6	12	24	18	16	9	3
ALKBH7	37	37	48	48	54	35
ALKBH8	98	77	75	121	158	107
ALLC	0	1	0	4	0	0
ALMS1	68	78	82	63	49	35
ALOX12	0	0	0	0	0	0
ALOX12B	0	0	0	0	0	0
ALOX12P2	1	1	0	13	9	19
ALOX15	0	0	0	0	0	8
ALOX15B	4	1	1	0	0	0
ALOX5	59	42	40	28	30	13
ALOX5AP	212	191	187	171	183	151
ALOXE3	0	0	0	0	0	0
ALPI	0	0	0	0	0	0
ALPK1	95	98	106	74	69	139
ALPK2	5	6	2	4	4	24
ALPK3	0	0	1	37	15	51
ALPL	0	0	0	0	0	0
ALPP	0	0	0	0	0	0
ALS2	48	54	48	28	35	13
ALS2CL	1	0	7	4	7	13
ALS2CR12	10	17	11	16	21	30
ALX1	0	0	0	0	0	0
ALX3	0	0	0	0	0	0
ALX4	1	2	2	1	12	8
ALYREF	67	68	75	48	69	61
AMACR	2	5	0	0	0	0
AMBN	0	0	0	0	0	0
AMBP	0	0	0	1	0	3
AMBRA1	34	31	34	63	62	103
AMD1	658	598	515	504	458	534
AMDHD1	0	1	0	1	2	0
AMDHD2	48	80	96	43	69	24
AMELX	0	0	0	0	0	0
AMELY	0	0	0	0	0	0
AMFR	207	157	175	219	217	216
AMH	0	0	0	16	2	0
AMHR2	0	0	0	0	0	0
AMIGO1	17	17	12	16	18	35
AMIGO2	92	78	93	119	92	89
AMIGO3	0	0	0	0	2	0
AMMECR1	79	81	91	98	100	79
AMMECR1L	78	63	66	151	106	89
AMN	2	7	5	43	38	66
AMN1	83	87	88	119	140	121
AMOT	7	8	5	13	0	8
AMOTL1	0	0	1	0	0	0
AMOTL2	0	0	0	0	0	0
AMPD1	0	0	0	0	0	3
AMPD2	47	48	58	43	57	8
AMPD3	60	69	84	48	54	19
AMPH	0	1	0	0	2	13
AMT	0	0	1	1	4	3
AMTN	0	0	1	9	7	13
AMY1A	0	0	0	0	0	0
AMY1B	0	0	0	0	0	0
AMY1C	0	0	0	0	0	0
AMY2A	0	0	0	0	0	0
AMY2B	25	24	39	84	35	71
AMZ1	4	2	3	0	0	24
AMZ2	137	146	127	243	197	233
AMZ2P1	29	21	32	53	43	79
ANAPC1	12	15	15	28	43	30
ANAPC10	47	54	55	69	60	40
ANAPC11	116	113	124	37	60	13
ANAPC13	139	161	146	143	153	121
ANAPC16	283	330	340	340	378	282
ANAPC2	1	0	1	0	0	0
ANAPC4	128	128	122	108	97	124
ANAPC5	345	388	417	464	495	419
ANAPC7	61	62	79	66	46	51
ANG	2	5	1	0	0	0
ANGEL1	31	29	13	9	15	19
ANGEL2	162	157	165	237	185	213
ANGPT1	7	6	7	9	2	8
ANGPT2	10	0	11	34	15	30
ANGPT4	0	0	0	0	0	0
ANGPTL1	1	0	0	0	0	0
ANGPTL2	0	0	0	4	0	0
ANGPTL3	1	0	1	1	0	0
ANGPTL4	0	0	0	0	0	0
ANGPTL5	0	0	0	0	0	0

ANGPTL6	9	8	12	1	0	0
ANGPTL7	0	0	0	0	0	0
ANK1	20	15	20	87	21	89
ANK2	2	5	1	1	12	35
ANK3	104	105	154	366	254	419
ANKAR	24	16	25	40	38	56
ANKDD1A	12	6	13	25	9	30
ANKFN1	0	0	0	0	0	0
ANKFY1	262	262	251	257	219	254
ANKH	124	136	133	241	217	182
ANKHD1	20	38	35	139	84	151
ANKHD1-EIF4EBP3	13	9	13	1	9	0
ANKIB1	219	209	222	232	191	224
ANKK1	0	0	0	0	0	0
ANKLE1	1	0	0	4	2	0
ANKLE2	133	146	149	190	193	227
ANKMY1	13	14	9	6	12	3
ANKMY2	82	66	76	48	90	0
ANKRA2	154	173	167	354	302	393
ANKRD1	1	0	0	0	0	0
ANKRD10	262	262	255	347	272	308
ANKRD11	1271	1171	1438	1741	1617	1793
ANKRD12	3679	2873	3477	2224	2150	2097
ANKRD13A	282	245	287	261	305	254
ANKRD13B	0	0	0	0	0	0
ANKRD13C	93	86	60	136	100	128
ANKRD13D	62	66	62	84	57	89
ANKRD16	1	4	2	1	0	0
ANKRD17	403	339	420	500	426	565
ANKRD18A	6	8	12	22	2	13
ANKRD18B	0	0	0	1	0	13
ANKRD18DP	0	0	0	0	0	0
ANKRD19P	0	0	0	0	0	0
ANKRD2	0	0	0	0	0	0
ANKRD20A1	0	0	0	0	0	0
ANKRD20A11P	5	2	3	9	7	3
ANKRD20A2	0	0	0	0	0	0
ANKRD20A3	0	0	0	0	0	0
ANKRD20A4	0	0	1	0	0	0
ANKRD20A5P	9	6	9	19	2	40
ANKRD20A8P	1	0	0	4	4	19
ANKRD20A9P	0	0	0	0	0	3
ANKRD22	99	121	119	1	15	8
ANKRD23	2	0	0	13	0	3
ANKRD24	0	0	0	1	0	0
ANKRD26	220	206	237	261	193	245
ANKRD26P1	0	0	0	6	2	30
ANKRD26P3	0	0	0	0	0	0
ANKRD27	176	144	130	143	144	75
ANKRD28	159	141	177	245	210	251
ANKRD29	0	0	1	0	0	8
ANKRD30A	0	0	0	0	0	0
ANKRD30B	1	1	1	13	7	19
ANKRD30BL	0	0	0	0	0	0
ANKRD30BP2	0	0	0	0	0	0
ANKRD31	6	1	3	37	35	51
ANKRD33	1	0	1	16	12	19
ANKRD33B	15	12	18	19	27	51
ANKRD34A	1	0	1	19	9	13
ANKRD34B	1	11	8	28	35	46
ANKRD34C	0	0	0	4	2	8
ANKRD35	0	0	1	0	0	0
ANKRD36	116	100	130	193	124	249
ANKRD36B	49	52	57	74	46	117
ANKRD36BP1	0	1	0	1	12	3
ANKRD36BP2	10	6	11	28	21	51
ANKRD37	49	52	52	51	103	13
ANKRD39	22	20	17	6	35	8
ANKRD40	69	66	62	90	82	98
ANKRD42	38	34	34	13	27	30
ANKRD44	952	928	1054	978	807	932
ANKRD45	0	0	0	0	0	8
ANKRD46	35	39	28	53	65	71
ANKRD49	376	330	369	476	410	467
ANKRD50	23	23	18	1	4	8
ANKRD52	55	54	62	45	62	24
ANKRD53	0	0	0	0	0	0
ANKRD54	31	40	37	66	90	89
ANKRD55	10	6	5	4	7	0
ANKRD6	17	14	12	4	24	8
ANKRD62P1-PARP4P3	0	0	0	0	0	0
ANKRD63	0	0	0	0	0	0
ANKRD65	0	0	0	0	0	0
ANKRD7	1	0	0	0	0	0
ANKRD9	7	8	2	0	0	0
ANKS1A	34	26	25	28	7	30
ANKS1B	5	1	3	9	7	3
ANKS3	13	21	12	22	15	30
ANKS4B	0	0	0	0	2	0
ANKS6	1	7	16	6	4	0
ANKUB1	1	1	3	1	0	8
ANKZF1	173	198	252	197	252	162
ANLN	2	0	0	1	0	0
ANO1	0	0	0	0	0	0
ANO10	25	25	24	0	4	3
ANO2	0	0	0	0	2	0
ANO3	0	5	0	1	2	13
ANO4	1	0	0	0	0	0
ANO5	4	2	2	1	4	3
ANO6	261	245	230	100	82	79
ANO7	1	0	0	0	0	0
ANO8	24	31	34	16	2	3
ANO9	11	19	16	13	4	0

ANP32A	431	396	453	464	456	428
ANP32AP1	2	0	0	0	0	0
ANP32B	1241	1299	1182	1153	1315	987
ANP32C	0	1	0	0	4	0
ANP32D	0	0	0	0	0	0
ANP32E	605	558	602	697	727	699
ANPEP	154	148	163	1	4	8
ANTXR1	0	0	0	0	7	0
ANTXR2	192	212	210	173	172	128
ANTXRL	0	0	0	0	0	0
ANXA1	497	497	451	342	345	359
ANXA10	1	4	2	13	24	35
ANXA11	278	350	345	248	295	220
ANXA13	0	2	0	0	2	24
ANXA2	605	662	517	87	87	61
ANXA2P1	0	0	0	0	0	0
ANXA2P2	6	9	5	0	0	0
ANXA2P3	0	0	0	0	0	0
ANXA3	5	2	3	6	9	0
ANXA4	264	209	208	53	49	79
ANXA5	561	598	550	72	142	61
ANXA6	121	121	104	114	144	35
ANXA7	266	225	246	261	238	254
ANXA8	0	0	0	0	0	0
ANXA8L1	0	0	0	0	0	0
ANXA9	0	0	0	0	0	0
AOAH	154	134	155	66	46	35
AOC2	0	1	1	19	7	8
AOC3	0	0	0	9	9	56
AOX1	0	0	0	0	2	0
AOX2P	0	0	0	0	0	0
AP1AR	289	296	267	175	187	182
AP1B1	225	296	226	145	159	143
AP1B1P1	0	0	0	0	0	0
AP1G1	236	177	249	309	254	297
AP1G2	31	29	30	53	12	8
AP1M1	90	98	91	380	227	355
AP1M2	0	0	0	0	0	3
AP1S1	6	14	20	1	2	0
AP1S2	819	847	832	179	227	136
AP1S3	12	12	6	43	38	19
AP2A1	28	24	32	22	38	30
AP2A2	49	52	67	66	30	35
AP2B1	167	152	181	206	159	169
AP2M1	150	168	192	143	162	169
AP2S1	258	293	317	90	87	35
AP3B1	210	162	183	103	108	121
AP3B2	0	0	0	0	0	0
AP3D1	337	353	377	389	340	372
AP3M1	72	95	66	25	38	40
AP3M2	181	182	168	153	203	233
AP3S1	282	258	227	159	131	98
AP3S2	60	50	37	56	77	35
AP4B1	41	39	41	25	12	0
AP4E1	118	106	119	66	72	89
AP4M1	5	5	2	0	7	13
AP4S1	40	28	25	48	49	46
AP5B1	44	52	51	6	18	13
APAF1	243	234	220	114	108	107
APBA1	4	0	6	0	0	0
APBA2	51	52	72	187	158	203
APBA3	25	33	45	6	27	19
APBB1	21	14	16	25	33	19
APBB1P	386	339	293	522	417	383
APBB2	1	2	2	0	4	0
APBB3	42	37	32	58	38	46
APC	278	288	317	179	166	143
APC2	0	0	0	56	30	103
APCDD1	0	0	0	0	0	0
APCDD1L	0	0	0	0	0	0
APCS	0	0	0	0	0	0
APEH	66	58	91	58	52	13
APEX1	230	238	194	345	297	345
APEX2	20	26	21	0	18	13
APH1A	598	702	730	659	778	675
APH1B	64	77	53	31	49	56
API5	190	174	172	263	259	275
APIP	56	65	68	72	67	61
APLF	47	47	45	82	49	89
APLN	0	0	0	0	0	0
APLNR	0	0	0	0	0	0
APLP1	0	0	0	0	0	0
APLP2	1044	1054	920	302	383	245
APOA1	0	0	0	0	0	0
APOA2	0	0	0	0	2	0
APOA4	0	0	0	0	0	0
APOA5	0	0	0	0	0	0
APOB	0	0	0	0	0	0
APOBEC1	0	0	0	0	0	0
APOBEC2	0	0	0	0	0	0
APOBEC3A	60	77	71	0	7	19
APOBEC3B	0	0	0	0	0	0
APOBEC3C	117	137	126	103	159	84
APOBEC3D	0	0	0	0	0	0
APOBEC3F	17	21	18	28	27	13
APOBEC3G	198	182	240	245	246	207
APOBEC3H	13	12	3	4	21	3
APOBEC4	0	0	0	1	0	0
APOBR	47	58	61	22	15	3
APOC1	21	20	18	0	0	0
APOC1P1	0	0	0	0	0	0
APOC2	0	0	0	0	0	0
APOC3	0	0	0	0	0	0

APOC4	0	0	0	0	0	0
APOC4-APOC2	0	0	0	0	0	0
APOD	0	0	0	0	0	0
APOE	1	7	11	0	0	0
APOF	0	0	0	0	7	3
APOH	0	0	0	0	0	0
APOL1	163	178	169	51	46	75
APOL2	183	204	186	221	265	249
APOL3	282	272	320	199	223	196
APOL4	69	65	55	1	0	13
APOL5	0	0	0	0	0	0
APOL6	1287	1325	1372	807	758	913
APOLD1	11	14	9	125	75	107
APOM	2	1	0	0	2	0
APOO	13	14	9	9	0	3
APOOL	85	86	58	28	43	75
APOPT1	35	45	52	69	52	66
APP	167	213	186	134	120	121
APPB2	241	289	285	389	382	332
APPL1	656	611	675	491	622	453
APPL2	90	52	52	82	87	84
APRT	96	108	83	129	127	84
APTX	60	72	44	100	103	94
AQP1	0	0	0	6	0	19
AQP10	0	0	0	0	0	0
AQP11	0	0	2	0	0	0
AQP12A	0	0	0	0	0	0
AQP12B	0	0	0	0	0	0
AQP2	0	0	0	0	0	0
AQP3	237	281	228	399	373	314
AQP4	0	0	0	0	0	0
AQP5	0	0	0	0	0	0
AQP6	0	0	0	0	0	0
AQP7	0	0	0	0	0	0
AQP7P1	0	0	0	0	0	0
AQP7P3	0	0	0	0	0	0
AQP8	0	0	0	0	0	0
AQP9	15	19	11	1	4	24
AQR	288	248	295	327	328	365
AR	0	2	1	0	2	0
ARAF	40	37	42	19	41	0
ARAP1	200	177	194	95	100	117
ARAP2	427	416	469	728	673	636
ARAP3	36	45	48	43	46	24
ARC	0	0	0	0	0	0
ARC1	300	281	295	325	359	305
AREG	7	7	11	25	27	19
ARF1	1182	1213	1082	988	1047	983
ARF3	317	336	330	207	219	169
ARF4	398	368	273	266	309	271
ARF5	0	1	1	0	0	0
ARF6	748	673	576	502	629	438
ARFGAP1	28	33	45	53	49	56
ARFGAP2	37	38	34	45	30	19
ARFGAP3	467	430	426	203	288	196
ARFGEF1	297	275	282	354	328	352
ARFGEF2	294	262	272	268	225	345
ARFIP1	165	158	151	72	84	46
ARFIP2	23	21	24	22	12	13
ARFRP1	35	32	41	60	30	61
ARG1	4	2	0	0	2	0
ARG2	4	1	0	6	0	0
ARGFX	0	0	0	0	0	0
ARGFXP2	0	0	0	0	2	0
ARGLU1	1291	1168	1263	1441	999	1360
ARHGAP1	89	104	83	98	87	56
ARHGAP10	197	205	203	51	52	35
ARHGAP11A	15	14	17	16	9	13
ARHGAP11B	0	0	0	0	0	0
ARHGAP12	147	120	122	151	140	169
ARHGAP15	135	148	146	239	236	285
ARHGAP17	193	174	168	119	140	128
ARHGAP18	378	359	336	25	43	40
ARHGAP19	89	92	76	45	90	71
ARHGAP19-SLIT1	0	0	0	0	0	0
ARHGAP20	2	1	0	1	0	0
ARHGAP21	102	120	103	87	87	51
ARHGAP22	21	23	23	4	0	0
ARHGAP23	0	0	0	0	0	0
ARHGAP24	31	39	60	100	75	154
ARHGAP25	205	186	267	271	302	282
ARHGAP26	300	283	309	323	217	241
ARHGAP27	100	83	89	90	67	61
ARHGAP28	2	1	0	0	2	0
ARHGAP29	2	4	0	1	0	8
ARHGAP30	594	609	716	539	617	540
ARHGAP31	55	54	71	0	33	0
ARHGAP32	11	9	14	4	9	46
ARHGAP33	1	0	0	0	2	0
ARHGAP35	133	125	149	187	206	188
ARHGAP36	0	0	0	0	0	0
ARHGAP39	0	0	0	0	0	0
ARHGAP4	67	35	69	43	46	30
ARHGAP40	0	0	0	1	0	0
ARHGAP42	1	0	1	0	2	3
ARHGAP44	0	0	0	0	0	13
ARHGAP5	250	213	227	290	316	329
ARHGAP5-AS1	0	0	2	13	18	3
ARHGAP6	4	8	0	1	15	24
ARHGAP8	0	0	0	0	0	3
ARHGAP9	245	257	257	221	230	143
ARHGDIA	137	141	159	100	115	79
ARHGDIIB	950	1067	892	816	805	704

ARHGDIG	0	0	0	0	0	0
ARHGEF1	122	136	154	452	314	529
ARHGEF10	2	0	2	9	24	30
ARHGEF10L	161	252	229	0	9	8
ARHGEF11	98	120	124	16	24	8
ARHGEF12	39	33	46	51	24	98
ARHGEF15	0	0	0	1	0	0
ARHGEF16	0	0	0	0	0	0
ARHGEF17	5	7	2	0	0	0
ARHGEF18	0	0	1	0	0	0
ARHGEF19	22	22	21	16	33	19
ARHGEF2	108	88	72	93	82	71
ARHGEF25	2	1	1	0	0	0
ARHGEF26	0	0	0	0	0	0
ARHGEF26-AS1	2	7	2	43	52	79
ARHGEF3	247	228	281	333	392	335
ARHGEF33	1	0	0	0	0	0
ARHGEF35	0	0	0	0	0	0
ARHGEF37	0	1	0	9	30	40
ARHGEF38	2	0	0	0	0	0
ARHGEF4	0	0	0	0	0	0
ARHGEF40	42	40	50	16	7	30
ARHGEF5	1	0	1	0	0	0
ARHGEF6	300	301	226	203	210	188
ARHGEF7	140	131	145	239	254	182
ARHGEF9	21	21	37	98	90	84
ARID1A	340	349	409	434	395	388
ARID1B	819	776	924	1027	962	1099
ARID2	179	173	206	213	195	213
ARID3A	329	347	405	121	115	139
ARID3B	104	128	149	106	108	107
ARID3C	0	0	0	0	0	0
ARID4A	861	744	861	1000	967	1021
ARID4B	1741	1495	1650	2150	1956	2110
ARID5A	174	143	164	237	230	314
ARID5B	374	325	383	517	503	447
ARIH1	273	260	293	603	485	734
ARIH2	245	239	224	391	362	463
ARL1	249	239	209	157	168	185
ARL10	30	40	45	53	49	51
ARL11	35	39	32	16	18	24
ARL13A	0	0	0	0	0	0
ARL13B	88	67	65	117	62	56
ARL14	0	0	0	0	0	3
ARL15	54	46	26	28	27	13
ARL16	15	5	17	6	15	0
ARL17A	1	0	0	0	4	0
ARL17B	6	5	3	4	12	13
ARL2	41	45	39	25	43	8
ARL2BP	215	254	207	224	292	179
ARL3	67	69	68	76	69	56
ARL4A	41	40	40	13	9	0
ARL4C	2201	2097	1900	1751	2041	1351
ARL4D	0	8	8	6	0	0
ARL5A	143	134	140	147	124	162
ARL5B	135	100	99	125	131	124
ARL5C	0	0	0	0	0	0
ARL6	37	21	25	76	95	94
ARL6IP1	490	526	457	473	539	490
ARL6IP4	14	14	23	34	38	56
ARL6IP5	1351	1278	1216	1109	1139	1246
ARL6IP6	98	87	99	87	100	98
ARL8A	558	571	448	259	343	203
ARL8B	338	342	333	232	254	258
ARL9	0	2	0	16	9	24
ARMC1	258	241	260	300	261	285
ARMC10	48	58	75	37	30	13
ARMC12	0	0	0	9	0	8
ARMC2	10	16	8	22	33	19
ARMC3	0	0	0	0	0	0
ARMC4	0	0	0	1	0	0
ARMC5	20	11	23	9	15	13
ARMC6	7	9	15	1	2	0
ARMC7	11	14	12	0	4	0
ARMC8	187	182	164	206	217	220
ARMC9	4	12	16	13	4	19
ARMCX1	11	16	9	6	9	3
ARMCX2	17	11	7	13	2	0
ARMCX3	241	248	197	288	252	317
ARMCX4	17	2	21	9	24	8
ARMCX5	59	55	51	34	41	24
ARMCX6	1	4	2	1	0	3
ARMS2	0	0	0	0	0	0
ARNT	117	105	97	79	103	84
ARNT2	1	0	7	0	4	3
ARNTL	200	192	183	307	254	308
ARNTL2	64	32	47	0	0	0
ARPC1A	92	107	75	45	72	75
ARPC1B	484	500	621	230	227	220
ARPC2	2290	2389	2680	1604	1785	1551
ARPC3	752	843	882	531	646	569
ARPC4	240	337	279	182	259	165
ARPC4-TTL3	0	0	0	0	0	0
ARPC5	1342	1388	1226	652	723	595
ARPC5L	167	170	190	409	389	482
ARPP19	299	303	309	380	392	376
ARPP21	0	0	1	0	0	8
ARR3	0	0	0	0	0	0
ARRB1	76	61	58	19	9	0
ARRB2	198	215	178	153	155	169
ARRDC1	22	26	31	4	9	0
ARRDC2	110	127	127	211	214	210
ARRDC3	322	329	289	630	572	708

ARRDC4	88	79	88	6	7	0
ARRDC5	5	13	7	25	15	35
ARSA	41	49	42	37	33	19
ARSB	134	108	117	6	7	0
ARSD	52	52	44	0	24	3
ARSE	0	0	0	0	0	0
ARSF	0	0	0	0	0	0
ARSG	9	12	5	9	4	0
ARSH	0	0	0	0	0	0
ARSI	0	0	0	0	0	0
ARSJ	0	1	0	1	0	0
ARSK	26	20	16	16	21	30
ART1	0	0	0	0	0	0
ART3	0	4	0	4	2	0
ART4	0	0	0	6	2	13
ART5	0	0	0	0	0	0
ARTN	0	0	0	0	2	0
ARV1	58	70	55	43	62	61
ARVCF	2	4	2	0	0	0
ARX	0	0	0	0	0	19
AS3MT	0	0	0	0	0	0
ASAH1	894	866	793	171	242	154
ASAH2	0	0	2	0	0	0
ASAH2B	6	9	6	0	12	0
ASAP1	679	631	669	319	370	301
ASAP2	13	2	5	9	2	8
ASAP3	0	0	1	0	0	0
ASB1	63	68	68	110	77	124
ASB10	0	0	0	0	0	0
ASB11	0	0	2	4	4	19
ASB12	0	0	0	0	0	0
ASB13	2	6	2	0	2	0
ASB14	0	0	0	1	0	0
ASB15	1	0	2	22	12	30
ASB16	0	0	0	0	0	0
ASB17	0	0	0	0	0	0
ASB18	0	0	0	0	2	0
ASB2	2	6	5	19	2	8
ASB4	0	0	1	0	0	0
ASB5	0	0	0	9	2	30
ASB6	29	39	41	34	43	24
ASB7	87	95	76	136	124	112
ASB8	74	50	46	82	92	66
ASB9	0	0	0	0	0	0
ASB9P1	0	0	0	0	0	0
ASCC1	48	57	48	48	77	56
ASCC2	46	54	67	40	60	40
ASCC3	196	208	208	207	219	220
ASCL1	0	0	0	0	0	0
ASCL2	55	58	57	9	9	0
ASCL3	0	0	0	0	0	0
ASCL4	0	0	0	0	0	0
ASF1A	80	96	83	206	155	245
ASF1B	14	13	12	0	4	0
ASGR1	132	146	115	28	12	40
ASGR2	62	52	35	1	0	0
ASH1L	527	474	584	761	525	734
ASH2L	78	54	47	45	57	46
ASIP	0	0	0	0	0	0
ASL	4	6	7	0	2	0
ASMT	0	0	0	0	0	0
ASMTL	31	28	23	13	15	0
ASMTL-AS1	0	0	0	1	0	0
ASNA1	30	24	26	1	12	30
ASNS	5	4	5	16	18	19
ASNSD1	179	139	172	182	172	199
ASPA	0	0	0	0	0	0
ASPDH	0	0	0	0	0	0
ASPG	0	0	0	0	0	0
ASPH	147	167	151	95	103	188
ASPHD1	0	0	0	0	0	3
ASPHD2	61	71	66	66	113	98
ASPM	18	17	20	6	7	35
ASPN	0	0	0	0	0	3
ASPRV1	4	0	2	9	15	24
ASPSCR1	6	5	6	0	0	0
ASRGL1	79	78	46	31	7	8
ASS1	0	0	0	0	0	0
ASTE1	37	35	29	34	62	56
ASTL	0	0	0	0	0	0
ASTN1	0	0	0	0	0	0
ASTN2	0	0	0	0	0	0
ASXL1	264	277	333	424	378	490
ASXL2	346	345	350	385	405	475
ASXL3	1	2	5	25	9	8
ASZ1	2	0	0	0	0	13
ATAD1	162	147	144	234	179	188
ATAD2	103	95	112	90	151	103
ATAD2B	271	281	323	365	283	308
ATAD3A	11	7	9	0	4	0
ATAD3B	11	7	11	4	12	3
ATAD3C	0	5	0	1	4	24
ATAD5	59	65	58	53	41	84
ATAT1	9	7	12	1	7	0
ATCAY	0	0	0	0	0	0
ATE1	139	102	141	134	124	182
ATF1	262	229	244	219	217	165
ATF2	130	153	147	161	129	158
ATF3	95	80	74	13	18	19
ATF4	687	791	880	959	1081	979
ATF5	155	179	241	28	57	30
ATF6	212	233	221	182	124	192
ATF6B	25	52	40	51	27	35

ATF7	39	50	54	19	41	13
ATF7IP	361	342	395	271	276	271
ATF7IP2	78	71	78	90	90	66
ATG10	21	13	7	13	35	51
ATG12	343	324	358	406	389	425
ATG13	69	82	51	90	79	61
ATG14	100	83	97	169	122	196
ATG16L1	42	45	50	143	95	139
ATG16L2	221	303	312	147	153	89
ATG2A	60	70	78	63	65	30
ATG2B	145	159	121	250	236	275
ATG3	414	339	370	193	234	199
ATG4A	41	28	23	22	30	13
ATG4B	98	128	133	226	210	169
ATG4C	135	126	109	136	120	128
ATG4D	18	17	24	43	24	35
ATG5	134	102	126	98	135	66
ATG7	75	65	103	48	35	56
ATG9A	0	0	0	0	0	0
ATG9B	6	6	6	6	2	0
ATIC	93	78	85	153	106	136
ATL1	2	2	5	0	7	0
ATL2	55	48	68	74	100	56
ATL3	193	168	185	161	131	75
ATM	1247	1136	1325	1521	1271	1609
ATMIN	197	182	166	182	193	169
ATN1	9	16	21	6	9	0
ATOH1	0	0	0	0	0	0
ATOH7	0	0	0	0	0	0
ATOH8	0	0	0	1	0	0
ATOX1	197	225	229	34	38	13
ATP10A	49	35	37	87	57	51
ATP10B	5	8	3	22	27	24
ATP10D	167	166	166	74	103	94
ATP11A	181	168	175	63	60	56
ATP11B	292	266	326	280	335	188
ATP11C	186	147	200	232	179	216
ATP12A	0	0	0	0	0	0
ATP13A1	13	14	21	37	18	8
ATP13A2	2	8	12	13	9	0
ATP13A3	351	339	279	201	277	188
ATP13A4	5	0	0	0	2	8
ATP13A5	0	0	0	0	0	0
ATP1A1	320	349	397	406	389	411
ATP1A2	0	0	0	0	0	0
ATP1A3	0	0	0	0	0	0
ATP1A4	0	0	0	0	0	0
ATP1B1	276	201	215	40	38	46
ATP1B2	0	0	0	0	0	0
ATP1B3	639	708	696	234	285	188
ATP1B4	0	0	0	9	0	0
ATP2A1	0	0	0	0	0	0
ATP2A2	266	285	249	117	127	103
ATP2A3	36	55	69	56	43	61
ATP2B1	724	666	704	668	650	425
ATP2B2	0	0	0	0	0	8
ATP2B3	0	0	0	6	4	19
ATP2B4	537	575	564	517	593	376
ATP2C1	125	184	168	95	87	107
ATP2C2	0	0	1	1	0	3
ATP4A	0	0	0	0	0	0
ATP4B	0	0	0	0	0	0
ATP5S	85	105	77	60	62	61
ATP6AP1	394	503	513	263	203	143
ATP6AP1L	9	12	12	66	38	98
ATP6AP2	1222	1218	1033	539	496	529
ATP6V0A1	119	114	146	28	12	19
ATP6V0A2	104	95	126	134	127	136
ATP6V0A4	0	0	0	0	0	0
ATP6V0B	382	399	360	161	219	165
ATP6V0C	0	0	0	0	0	0
ATP6V0CP3	0	0	0	0	0	0
ATP6V0D1	87	76	90	34	52	75
ATP6V0D2	0	2	1	4	2	3
ATP6V0E1	381	451	432	296	295	224
ATP6V0E2	55	96	87	155	159	103
ATP6V1A	400	377	379	103	106	132
ATP6V1B1	0	0	0	0	2	0
ATP6V1B2	872	1001	879	182	257	162
ATP6V1C1	158	153	172	76	62	103
ATP6V1C2	0	0	0	0	2	3
ATP6V1D	151	131	137	48	69	56
ATP6V1E1	213	215	207	211	230	245
ATP6V1E2	34	31	47	119	65	103
ATP6V1F	228	265	254	93	124	124
ATP6V1G1	1226	1192	1139	1101	1081	1138
ATP6V1G2	10	11	7	90	69	128
ATP6V1G2-DDX39B	0	0	0	0	0	0
ATP6V1G3	0	0	0	1	0	3
ATP6V1H	153	165	158	143	170	220
ATP7A	129	117	109	125	111	121
ATP7B	1	0	0	0	0	0
ATP8A1	316	351	353	622	593	558
ATP8A2	6	8	7	22	30	19
ATP8B1	4	2	0	0	2	0
ATP8B2	125	108	120	163	170	136
ATP8B3	1	2	0	0	0	0
ATP8B4	40	40	30	6	21	40
ATP8B5P	0	1	1	1	0	0
ATP9A	25	15	13	31	52	13
ATP9B	54	61	71	63	49	89
ATPAF1	69	63	63	98	100	51
ATPAF2	22	20	24	9	15	3

ATR	148	144	164	215	195	288
ATRIIP	20	11	8	13	12	19
ATRN	48	49	45	16	33	19
ATRNLI	0	1	7	4	2	0
ATRX	1883	1617	1835	1759	1636	1725
ATXN1	490	395	488	430	426	475
ATXN10	193	190	177	264	227	230
ATXN1L	102	83	87	95	117	117
ATXN2	246	225	222	305	274	355
ATXN2L	208	238	382	257	274	329
ATXN3	182	153	178	117	142	98
ATXN3L	0	0	0	0	0	0
ATXN7	23	22	46	17	20	16
ATXN7L1	78	79	77	93	75	117
ATXN7L2	0	2	3	0	0	3
ATXN7L3	78	72	74	87	106	71
ATXN7L3B	190	197	183	349	309	388
ATXN8O5	0	0	0	0	0	0
AUH	64	56	54	60	57	24
AUP1	179	243	230	193	195	213
AURKA	24	14	15	4	9	13
AURKAIP1	106	106	104	74	117	66
AURKB	7	6	6	4	0	0
AURKC	0	0	0	1	0	3
AUTS2	244	255	302	314	343	271
AVEN	15	22	13	28	30	24
AVIL	9	5	15	157	100	199
AVL9	117	114	127	100	87	98
AVP	0	0	0	0	0	0
AVPI1	5	4	11	0	0	0
AVPR1A	0	0	0	0	0	3
AVPR1B	0	0	0	0	0	0
AVPR2	0	0	0	0	0	0
AWAT1	0	0	0	0	0	0
AWAT2	0	0	0	1	9	8
AXDND1	0	0	0	0	2	0
AXIN1	42	41	36	48	43	61
AXIN2	49	54	45	66	72	30
AXL	5	7	1	0	0	0
AZGP1	0	0	0	0	0	0
AZGP1P1	0	0	0	0	0	0
AZI2	285	272	272	296	297	312
AZIN1	448	388	385	296	323	305
AZU1	0	0	0	0	0	0
B2M	12614	12614	12614	7765	8884	7765
B3GALNT1	10	4	6	1	4	8
B3GALNT2	17	13	9	19	24	30
B3GALT1	0	0	0	0	0	3
B3GALT2	12	13	15	98	62	84
B3GALT4	35	25	30	45	41	30
B3GALT5	0	0	1	1	2	13
B3GALT6	107	86	94	40	60	8
B3GAT1	18	15	21	13	18	13
B3GAT2	0	4	1	1	4	3
B3GAT3	21	11	21	25	12	0
B3GNT2	161	141	151	161	159	203
B3GNT3	0	0	0	0	0	0
B3GNT4	0	1	0	0	2	0
B3GNT5	136	105	85	0	12	3
B3GNT6	0	0	0	0	0	0
B3GNT7	1	1	0	4	7	0
B3GNT8	1	0	0	0	0	0
B3GNT9	4	5	7	22	21	35
B3GNTL1	2	6	9	16	7	3
B4GALNT1	0	0	0	0	4	0
B4GALNT2	0	0	0	0	0	3
B4GALNT3	0	0	0	0	0	0
B4GALNT4	0	0	0	4	4	0
B4GALT1	621	730	612	747	733	583
B4GALT2	10	4	2	1	0	0
B4GALT3	133	131	133	132	142	117
B4GALT4	36	22	29	31	41	56
B4GALT5	302	292	288	129	166	169
B4GALT6	15	4	8	16	7	3
B4GALT7	31	26	22	19	15	8
B9D1	0	0	0	0	0	0
B9D2	25	31	32	0	12	3
BAALC	6	1	2	0	2	0
BAAT	0	0	0	1	2	24
BABAM1	63	65	62	76	67	66
BACE1	11	20	6	0	2	3
BACE2	2	2	0	0	0	13
BACH1	237	190	230	93	103	128
BACH2	283	321	299	646	503	629
BAD	15	17	17	16	33	24
BAG1	98	94	111	79	92	89
BAG2	32	25	29	43	46	75
BAG3	65	42	59	95	57	107
BAG4	78	54	65	84	100	84
BAG5	209	222	220	336	295	352
BAG6	148	148	145	98	144	94
BAGE2	0	0	0	0	0	0
BAHCC1	2	4	3	1	0	0
BAHD1	111	83	63	93	60	61
BAIAP2	13	17	22	4	2	0
BAIAP2L1	1	0	0	0	0	0
BAIAP2L2	0	0	0	0	0	0
BAIAP3	1	4	1	1	0	8
BAK1	28	5	24	22	12	3
BAMBI	0	1	0	0	0	0
BANF1	76	88	82	45	77	46
BANF2	0	0	0	0	0	0
BANK1	153	126	138	300	281	345

BANP	121	163	187	323	261	435
BAP1	45	43	50	40	54	19
BARD1	68	46	45	72	97	121
BARHL1	0	0	0	0	0	0
BARHL2	0	0	0	0	0	0
BARX1	0	0	0	0	0	0
BARX2	0	1	0	6	0	13
BASP1	214	251	255	201	242	241
BASP1P1	0	0	0	0	0	0
BATF	60	55	72	98	124	151
BATF2	28	33	24	0	0	0
BATF3	10	12	9	0	4	8
BAX	32	35	50	63	65	51
BAZ1A	1114	1091	1060	956	984	1069
BAZ1B	522	430	521	648	584	763
BAZ2A	731	695	822	728	718	857
BAZ2B	460	423	464	539	459	490
BBC3	205	225	208	167	149	169
BBIP1	77	78	75	74	69	35
BBOX1	2	0	0	0	0	0
BBS1	0	0	2	0	2	0
BBS10	11	25	11	40	21	19
BBS12	9	12	5	6	0	8
BBS2	97	76	63	66	65	35
BBS4	44	34	41	25	38	19
BBS5	2	1	0	1	0	0
BBS7	38	41	28	28	24	8
BBS9	25	21	29	31	27	19
BBX	1016	897	1049	1067	1146	1042
BCAM	0	0	0	0	2	0
BCAN	0	0	0	0	0	0
BCAP29	179	166	145	66	84	51
BCAP31	214	239	232	180	158	158
BCAR1	0	0	0	0	0	0
BCAR3	13	7	11	9	0	8
BCAR4	0	0	0	0	0	0
BCAS1	7	15	8	69	49	136
BCAS2	163	152	117	100	140	132
BCAS3	23	26	23	19	38	56
BCAS4	30	47	47	66	79	24
BCAT1	58	72	37	66	75	103
BCAT2	10	11	12	13	18	8
BCCIP	273	245	299	422	413	521
BCDIN3D	20	31	26	56	49	103
BCHE	0	0	0	0	0	0
BCKDHA	2	0	3	1	0	0
BCKDHB	21	21	13	22	9	0
BCKDK	36	23	28	9	15	0
BCL10	166	153	135	147	162	169
BCL11A	223	243	234	372	354	419
BCL11B	1675	1717	1806	2634	2427	2532
BCL2	238	181	197	143	144	169
BCL2A1	197	201	186	163	193	139
BCL2L1	32	37	43	16	33	35
BCL2L10	0	0	0	16	2	0
BCL2L11	177	161	141	165	149	66
BCL2L12	20	24	36	0	30	13
BCL2L13	189	198	176	239	230	301
BCL2L14	2	0	2	0	0	8
BCL2L15	1	1	3	1	4	0
BCL2L2	24	17	20	28	7	35
BCL2L2-PABPN1	0	0	0	0	0	0
BCL3	190	221	260	228	234	216
BCL6	193	213	251	335	307	317
BCL6B	0	0	0	0	0	0
BCL7A	47	60	66	90	95	121
BCL7B	69	81	79	45	49	19
BCL7C	18	17	21	1	2	0
BCL9	11	17	15	19	2	3
BCL9L	355	477	560	446	485	463
BCLAF1	766	702	776	504	513	456
BCO2	4	6	6	13	7	19
BCOR	283	275	291	280	295	207
BCORL1	25	25	30	4	4	0
BCORP1	15	15	15	16	9	35
BCR	63	69	63	95	106	84
BCRP2	0	0	0	0	0	0
BCRP3	0	0	0	0	0	3
BCS1L	13	17	16	9	15	8
BCYRN1	0	0	0	0	0	0
BDH1	35	40	53	58	60	51
BDH2	9	8	12	4	4	0
BDKRB1	0	0	0	0	0	0
BDKRB2	0	0	0	0	0	0
BDNF	0	1	0	0	0	0
BDP1	637	558	695	837	709	838
BEAN1	0	0	0	0	0	0
BECN1	603	626	584	684	682	695
BEGAIN	0	0	0	0	0	0
BEND2	2	5	2	4	4	3
BEND3	2	4	3	0	0	0
BEND4	5	1	2	1	2	0
BEND5	18	17	24	43	35	19
BEND6	0	0	0	1	0	0
BEND7	4	0	0	6	2	8
BEST1	10	8	3	4	2	0
BEST2	0	0	0	0	0	0
BEST3	0	0	0	4	4	0
BEST4	1	2	0	16	0	0
BET1	89	95	95	190	120	207
BET1L	56	63	66	48	84	13
BEX1	0	1	0	0	0	0
BEX2	72	82	77	182	164	210

BEX4	104	126	145	125	106	124
BEX5	22	22	26	19	52	3
BFAR	89	91	103	110	120	162
BFSF1	0	0	0	0	0	0
BFSF2	0	1	0	0	0	0
BGLAP	0	0	0	0	0	0
BGN	0	0	0	0	0	0
BHLHA15	0	0	0	0	0	0
BHLHA9	0	0	0	0	0	0
BHLHB9	6	13	7	25	12	30
BHLHE22	0	0	0	1	2	0
BHLHE23	0	0	0	0	0	0
BHLHE40	217	239	276	197	245	213
BHLHE41	327	316	286	40	79	30
BHMT	0	0	0	9	0	8
BHMT2	0	0	0	4	4	0
BICC1	2	4	3	0	7	0
BICD1	52	57	67	163	162	237
BICD2	399	396	334	290	251	321
BID	166	165	186	37	54	56
BIK	2	5	5	0	15	0
BIN1	92	91	66	117	155	89
BIN2	392	309	337	363	292	216
BIN3	49	47	58	34	49	51
BIRC2	383	357	314	709	584	876
BIRC3	1458	1346	1455	2322	2372	2244
BIRC5	0	1	1	0	0	0
BIRC6	421	375	409	616	493	766
BIRC7	2	2	2	0	0	0
BIRC8	1	0	0	0	0	0
BIVM	42	46	43	93	46	51
BIVM-ERCC5	0	0	0	0	0	0
BLCAP	124	139	168	232	223	203
BLID	0	0	0	0	0	0
BLK	5	14	13	16	18	8
BLM	17	20	20	22	49	40
BLMH	59	78	79	175	181	188
BLNK	100	84	104	125	95	132
BLOC1S1	65	61	59	16	38	3
BLOC1S2	319	392	393	221	285	230
BLOC1S3	44	45	31	6	49	40
BLVRA	78	97	68	13	21	0
BLVRB	94	121	159	16	24	24
BLZF1	50	54	63	16	24	13
BMF	68	68	77	60	75	56
BMI1	161	155	145	197	221	199
BMP1	1	4	1	0	0	0
BMP10	0	0	0	0	0	0
BMP15	0	0	0	0	0	0
BMP2	0	0	0	0	0	0
BMP2K	166	142	112	74	49	61
BMP3	4	0	0	0	0	0
BMP4	0	0	0	0	0	0
BMP5	0	0	0	0	0	0
BMP6	5	0	0	0	0	8
BMP7	0	0	0	0	0	0
BMP8A	0	0	0	0	0	0
BMP8B	5	6	9	0	0	19
BMPER	0	0	0	0	2	0
BMPR1A	21	29	16	13	18	8
BMPR1B	1	0	0	0	0	13
BMPR2	279	252	263	221	212	213
BMS1	213	247	221	339	340	352
BMS1P1	1	0	1	1	4	3
BMS1P4	6	5	6	9	2	3
BMX	1	2	3	9	15	0
BNC1	0	0	0	0	0	0
BNC2	22	17	11	31	43	98
BNIP1	9	9	16	4	9	3
BNIP2	617	637	600	566	466	569
BNIP3	155	168	167	76	159	61
BNIP3L	825	885	863	459	648	365
BNIPL	2	2	7	4	4	0
BOC	0	0	0	0	0	3
BOD1	79	78	72	149	108	79
BOK	1	1	0	0	0	0
BOK-AS1	0	1	0	1	0	0
BOLA1	25	19	17	43	27	19
BOLA2	0	0	0	0	0	0
BOLA2B	0	0	0	0	0	0
BOLA3	56	67	65	45	54	84
BOLA3-AS1	1	2	2	0	4	0
BOLL	0	0	0	0	0	0
BOP1	10	20	28	0	4	0
BORA	46	54	47	34	38	13
BPESC1	0	1	0	0	0	0
BPGM	40	24	37	19	38	35
BPHL	5	15	8	0	18	13
BPI	6	5	5	1	7	3
BPIFA1	0	0	0	0	0	0
BPIFA2	0	0	0	0	0	0
BPIFA3	0	0	0	0	2	8
BPIFA4P	0	0	0	4	2	0
BPIFB1	0	0	0	0	0	0
BPIFB2	0	0	0	0	0	0
BPIFB3	0	0	0	0	0	0
BPIFB4	0	0	0	0	0	0
BPIFB6	0	0	0	0	0	0
BPIFC	0	0	0	1	4	8
BPNT1	60	37	48	34	62	19
BPTF	1528	1473	1525	1811	1776	1802
BPY2	0	0	0	0	0	0
BPY2B	0	0	0	0	0	0

BPY2C	0	0	0	0	0	0
BRAF	162	190	212	248	227	245
BRAP	80	96	78	123	115	136
BRAT1	24	47	36	16	27	0
BRCA1	29	19	20	25	18	8
BRCA2	68	69	69	9	21	24
BRCC3	160	146	107	143	179	121
BRD1	170	184	157	283	270	301
BRD2	663	697	723	846	919	839
BRD3	250	291	281	383	376	329
BRD4	948	936	1035	1267	1189	1441
BRD7	125	127	146	217	172	188
BRD8	169	175	190	281	261	305
BRD9	109	98	132	141	147	121
BRDT	0	0	2	6	7	3
BRF1	14	33	46	25	46	46
BRF2	39	50	34	34	52	24
BR13	502	493	496	125	124	147
BR13BP	108	121	78	60	52	40
BRIP1	13	6	7	4	15	3
BRIX1	140	102	90	155	193	230
BRK1	170	208	144	157	197	143
BRMS1	52	43	42	43	43	40
BRMS1L	26	30	25	16	15	24
BR0X	447	439	462	489	466	499
BRPF1	106	97	106	79	120	98
BRPF3	51	63	57	19	30	35
BRS3	0	0	0	0	0	0
BRSK1	0	0	0	0	0	0
BRSK2	0	0	1	0	0	0
BRWD1	434	401	462	613	498	654
BRWD3	238	222	266	221	223	230
BSC12	0	0	0	0	0	0
BSDC1	134	132	144	159	103	162
BSG	72	63	55	60	75	40
BSN	0	0	0	0	0	0
BSND	0	0	0	0	0	0
BSPH1	0	0	0	0	0	0
BSPRY	0	0	7	1	4	3
BST1	106	137	93	19	4	0
BST2	206	248	208	173	177	182
BSX	0	0	0	0	0	0
BTAf1	246	209	230	278	274	365
BTBD1	50	65	83	45	69	75
BTBD10	90	81	77	79	108	84
BTBD11	37	37	36	123	97	103
BTBD16	0	1	1	4	0	3
BTBD17	0	0	0	0	0	0
BTBD18	0	0	0	0	0	0
BTBD19	2	9	6	13	12	24
BTBD2	21	22	30	25	24	13
BTBD3	11	8	7	0	0	0
BTBD6	34	35	52	25	30	30
BTBD7	343	385	358	394	332	383
BTBD8	20	13	20	31	21	24
BTBD9	31	30	32	19	27	19
BTC	0	1	0	0	0	0
BT0	24	28	14	4	7	0
BTF3	453	506	519	937	916	956
BTF3L4	210	219	155	76	127	61
BTF3P11	0	0	0	0	0	0
BTG1	3529	3592	3916	2807	3147	2807
BTG2	545	536	537	278	357	261
BTG3	158	159	142	84	84	51
BTG4	0	0	0	0	0	0
BTk	52	58	50	28	15	24
BTLA	40	45	39	63	62	89
BTN1A1	0	0	0	0	0	8
BTN2A1	229	219	226	372	300	411
BTN2A2	92	104	95	53	54	35
BTN2A3P	7	8	8	19	12	56
BTN3A1	329	385	393	369	417	305
BTN3A2	252	269	241	427	343	317
BTN3A3	200	225	204	259	246	199
BTNL2	0	0	0	0	0	0
BTNL3	0	0	0	0	0	0
BTNL8	0	0	0	0	4	0
BTNL9	1	8	6	4	0	0
BTRC	51	68	37	58	69	56
BU81	7	5	2	25	7	13
BU81B	4	1	2	0	2	3
BU83	377	425	445	383	373	288
BUD13	84	61	79	90	122	94
BUD31	133	167	203	141	179	173
BVES	0	0	0	0	0	0
BVES-AS1	0	0	0	0	0	0
BVSL	13	8	9	1	9	0
BZW1	224	213	270	234	285	305
BZW2	114	127	97	171	201	154
C10orf105	0	0	0	28	7	19
C10orf111	0	0	0	9	2	3
C10orf113	0	0	0	0	0	0
C10orf120	0	0	0	0	0	0
C10orf25	5	6	0	4	7	0
C10orf53	0	0	0	0	0	0
C10orf55	7	8	0	0	0	0
C10orf62	0	0	0	0	0	0
C10orf67	0	1	3	13	18	35
C10orf71	0	0	0	0	0	0
C10orf82	0	0	0	0	0	0
C10orf88	24	13	8	51	30	8
C10orf90	0	0	0	0	0	3
C10orf91	1	0	0	1	2	3

C10orf95	0	0	0	6	0	0
C10orf99	0	0	0	0	0	3
C11orf1	10	14	12	66	52	103
C11orf16	0	0	0	0	0	0
C11orf21	50	49	62	34	35	13
C11orf24	28	15	17	1	4	8
C11orf40	0	0	0	0	0	0
C11orf42	0	0	0	0	0	0
C11orf45	0	0	0	0	0	0
C11orf49	11	16	5	4	33	8
C11orf52	0	0	0	0	0	0
C11orf53	0	0	0	0	0	0
C11orf54	169	153	167	173	199	203
C11orf58	707	613	643	883	797	920
C11orf65	4	4	1	4	2	0
C11orf68	30	32	36	28	33	35
C11orf71	51	46	42	108	72	151
C11orf74	6	6	9	28	2	30
C11orf80	1	0	3	6	2	13
C11orf86	0	0	0	0	0	0
C11orf87	1	0	0	0	0	0
C11orf88	0	0	0	0	0	0
C11orf91	0	0	0	0	0	0
C11orf94	0	0	0	0	0	0
C11orf95	5	9	11	9	4	0
C11orf96	1	0	1	1	0	3
C12orf10	29	20	31	37	41	35
C12orf29	47	45	42	58	62	75
C12orf4	90	92	75	66	69	56
C12orf40	0	0	0	0	0	0
C12orf42	10	24	16	37	30	56
C12orf43	23	33	41	31	18	13
C12orf45	49	55	60	43	52	46
C12orf49	107	98	96	121	137	79
C12orf50	1	4	9	28	33	75
C12orf54	0	0	0	0	15	19
C12orf56	0	0	0	0	2	0
C12orf57	97	130	100	317	321	340
C12orf60	1	1	2	0	4	0
C12orf65	96	120	105	268	234	199
C12orf66	21	31	22	25	41	3
C12orf71	0	0	0	0	0	0
C12orf73	15	17	18	51	43	51
C12orf75	185	173	148	199	227	199
C12orf76	47	54	44	93	79	71
C12orf77	1	0	0	6	0	8
C14orf119	137	132	142	143	129	124
C14orf132	12	7	11	16	21	24
C14orf177	0	0	0	0	0	0
C14orf178	0	0	0	0	0	0
C14orf180	0	0	0	0	0	0
C14orf28	29	33	28	19	38	40
C14orf39	0	0	0	0	2	0
C14orf93	13	7	11	9	18	0
C15orf32	0	0	0	0	0	0
C15orf38-AP352	0	0	0	0	0	0
C15orf39	51	26	42	9	21	0
C15orf40	47	72	42	175	106	165
C15orf41	10	7	11	28	27	46
C15orf48	917	931	783	139	242	79
C15orf53	17	19	8	74	95	117
C15orf54	0	0	0	0	0	0
C15orf56	0	0	0	0	0	0
C15orf61	75	86	71	79	106	51
C15orf62	0	0	6	19	18	3
C16orf45	4	4	9	1	4	3
C16orf46	0	4	0	1	0	0
C16orf54	163	161	128	213	159	139
C16orf58	12	11	15	31	27	3
C16orf70	49	47	44	37	30	19
C16orf71	0	0	0	0	0	0
C16orf72	153	161	113	257	268	279
C16orf74	6	12	13	4	4	0
C16orf78	0	0	0	0	0	8
C16orf82	0	0	0	0	0	0
C16orf86	0	5	9	0	4	3
C16orf87	117	118	96	90	82	98
C16orf89	0	0	0	0	0	0
C16orf90	0	0	0	0	0	0
C16orf91	26	25	34	34	35	46
C16orf92	0	0	0	0	0	0
C16orf95	2	1	2	0	0	0
C16orf96	0	0	0	0	0	0
C17orf100	4	4	0	0	0	3
C17orf102	0	0	0	0	2	0
C17orf107	0	1	0	0	0	0
C17orf47	0	0	0	0	0	0
C17orf49	1	1	0	4	0	8
C17orf50	0	0	0	0	0	0
C17orf51	11	15	11	0	4	0
C17orf53	0	0	0	0	0	0
C17orf58	34	26	32	0	0	0
C17orf64	0	0	0	0	0	0
C17orf67	10	6	12	34	9	8
C17orf75	66	73	45	106	69	112
C17orf77	0	0	0	4	0	0
C17orf78	0	0	0	0	0	0
C17orf80	44	38	42	69	35	35
C17orf82	0	0	0	0	0	0
C17orf97	9	11	9	28	15	8
C17orf98	0	0	0	0	0	3
C17orf99	1	1	6	25	21	24
C18orf21	41	38	30	22	41	35

C18orf25	125	128	111	132	124	139
C18orf32	59	67	43	69	43	143
C18orf54	14	32	24	43	41	61
C18orf63	0	0	1	0	0	8
C19orf12	172	117	130	95	127	75
C19orf18	4	2	0	82	35	94
C19orf24	47	54	53	56	79	40
C19orf25	21	25	32	19	33	0
C19orf33	0	0	0	0	0	0
C19orf38	48	67	51	16	9	40
C19orf44	2	5	2	0	0	0
C19orf47	13	11	11	0	0	0
C19orf48	4	6	9	0	7	0
C19orf53	102	93	91	171	120	151
C19orf54	5	5	7	1	0	8
C19orf57	0	0	0	0	0	0
C19orf66	39	40	52	40	57	13
C19orf70	25	24	43	43	27	30
C19orf71	0	0	0	0	0	0
C19orf73	0	0	0	0	0	0
C19orf81	0	0	0	0	0	0
C1D	76	77	63	76	60	75
C1GALT1	241	170	215	161	140	154
C1GALT1C1	113	111	101	90	90	71
C1orf100	0	0	0	1	0	0
C1orf105	0	0	0	0	0	0
C1orf109	24	11	17	34	46	56
C1orf112	12	4	12	6	0	8
C1orf115	0	0	5	0	0	0
C1orf116	0	0	0	1	0	0
C1orf122	38	39	47	40	43	24
C1orf123	67	58	68	56	60	40
C1orf127	0	0	0	0	0	0
C1orf131	215	225	213	268	305	258
C1orf141	0	0	0	0	0	0
C1orf146	0	0	0	0	0	0
C1orf158	0	0	0	0	0	0
C1orf159	9	17	12	19	12	19
C1orf162	49	52	45	40	27	35
C1orf174	132	114	113	121	162	124
C1orf185	0	0	0	0	0	0
C1orf189	0	0	0	0	0	0
C1orf194	0	0	0	0	0	0
C1orf198	5	7	1	1	7	3
C1orf21	204	174	187	239	242	237
C1orf210	0	0	0	0	0	0
C1orf216	18	30	30	0	12	0
C1orf220	1	0	0	0	2	0
C1orf226	0	0	0	0	0	0
C1orf229	0	0	0	0	0	0
C1orf35	51	56	67	100	97	107
C1orf43	386	409	332	452	459	495
C1orf50	22	21	20	34	24	40
C1orf52	98	113	94	175	193	173
C1orf53	0	2	2	0	0	0
C1orf54	44	46	34	1	9	0
C1orf56	10	9	7	13	4	8
C1orf61	2	0	2	9	2	19
C1orf68	0	0	0	0	0	0
C1orf74	17	13	11	4	21	0
C1orf87	0	0	0	0	0	0
C1orf94	0	0	0	0	0	0
C1QA	41	34	25	1	2	0
C1QB	23	21	18	0	0	0
C1QBP	157	150	126	271	274	317
C1QC	37	41	50	0	0	0
C1QL1	0	0	0	0	0	0
C1QL2	0	0	0	0	0	0
C1QL3	0	0	0	0	0	0
C1QL4	0	0	0	0	0	0
C1QTNF1	0	0	0	1	0	0
C1QTNF2	0	0	0	0	0	0
C1QTNF3	5	8	12	1	9	0
C1QTNF4	0	0	0	0	0	0
C1QTNF5	0	0	0	0	0	0
C1QTNF6	9	13	6	103	41	143
C1QTNF7	1	0	0	6	0	0
C1QTNF8	0	0	0	0	0	0
C1QTNF9	0	0	0	0	0	3
C1QTNF9B	0	0	0	0	0	0
C1R	6	2	2	0	4	0
C1RL	41	38	39	31	18	13
C1S	5	1	2	84	46	98
C2	20	16	20	4	0	30
C20orf141	0	0	0	0	0	0
C20orf144	0	0	0	0	0	0
C20orf173	0	0	0	0	0	0
C20orf194	76	62	58	28	33	8
C20orf197	2	1	0	13	0	0
C20orf202	0	0	0	0	0	8
C20orf203	0	0	0	0	0	0
C20orf27	32	35	44	19	12	19
C20orf85	0	0	0	0	0	0
C20orf96	5	1	0	4	7	3
C21orf58	4	1	5	28	7	19
C21orf62	0	0	0	0	2	0
C21orf91	272	325	302	313	365	388
C21orf91-OT1	0	0	0	0	0	0
C22orf15	0	0	1	0	0	0
C22orf23	0	0	0	0	0	0
C22orf24	0	0	0	0	0	0
C22orf31	0	0	0	0	0	0
C22orf34	10	8	20	1	4	13

C22orf39	139	118	96	127	142	84
C22orf42	0	0	0	0	0	0
C22orf46	11	14	13	37	21	13
C2CD2	30	22	24	9	27	3
C2CD2L	93	106	130	53	30	56
C2CD3	36	29	26	43	41	89
C2CD4A	4	0	0	0	2	0
C2CD4B	0	0	0	0	0	0
C2CD4C	0	0	0	0	0	0
C2CD4D	0	0	0	0	0	0
C2orf15	4	0	3	9	9	3
C2orf16	0	0	0	1	2	8
C2orf27A	1	6	2	4	0	0
C2orf27B	0	0	0	0	0	0
C2orf40	0	4	3	9	0	40
C2orf42	15	16	15	25	21	19
C2orf48	0	0	0	0	0	0
C2orf49	128	95	95	177	177	165
C2orf50	0	0	0	0	0	0
C2orf66	0	0	0	0	0	0
C2orf68	49	52	44	98	79	71
C2orf69	154	147	140	125	133	151
C2orf70	0	0	0	0	0	0
C2orf72	0	0	0	0	0	0
C2orf73	0	0	0	0	0	0
C2orf74	9	12	5	1	18	3
C2orf76	14	11	11	63	54	79
C2orf78	0	0	0	0	0	0
C2orf80	0	0	0	0	0	0
C2orf81	0	0	0	0	0	0
C2orf83	0	0	1	0	0	0
C2orf88	15	14	6	9	24	13
C2orf91	0	0	0	9	0	13
C3	15	8	16	1	2	0
C3AR1	103	105	105	13	18	13
C3orf14	15	14	14	0	0	0
C3orf18	12	12	6	6	9	0
C3orf20	0	0	0	0	0	0
C3orf22	0	0	0	0	0	0
C3orf30	0	0	0	0	0	0
C3orf33	1	4	6	6	0	3
C3orf35	2	2	9	1	0	13
C3orf38	115	113	98	114	131	147
C3orf49	0	0	0	0	0	0
C3orf52	0	0	0	0	0	0
C3orf58	108	120	79	53	52	30
C3orf62	68	73	75	110	106	112
C3orf67	0	1	0	1	0	3
C3orf70	0	1	0	4	2	0
C3orf79	0	0	0	0	0	0
C3orf80	0	0	0	0	0	0
C3P1	0	0	0	0	0	0
C4A	0	0	0	0	0	0
C4B	0	0	0	0	0	0
C4BPA	0	0	0	1	2	0
C4BPB	2	0	2	0	0	0
C4orf17	0	0	0	0	0	0
C4orf19	0	0	0	0	0	0
C4orf3	495	591	496	456	625	388
C4orf33	69	67	60	16	21	13
C4orf36	0	0	0	0	0	0
C4orf45	0	0	0	0	0	0
C4orf46	29	33	37	13	49	24
C4orf47	5	5	7	22	4	19
C4orf48	17	13	16	1	0	0
C4orf51	0	0	0	0	0	0
C5	5	6	8	9	7	51
C5AR1	246	248	243	16	62	24
C5orf15	214	182	175	134	166	89
C5orf22	95	90	78	93	65	112
C5orf24	122	113	117	149	103	84
C5orf30	19	14	12	4	2	8
C5orf34	2	8	0	4	4	8
C5orf38	0	0	0	4	2	0
C5orf46	0	0	0	0	0	0
C5orf47	0	0	0	4	2	0
C5orf49	0	0	0	0	0	0
C5orf51	104	107	93	132	106	128
C5orf52	0	0	0	0	0	0
C5orf56	442	511	581	614	752	532
C5orf58	0	0	0	0	0	0
C5orf60	0	0	0	0	2	3
C5orf63	14	22	18	60	30	61
C5orf64	0	0	0	0	0	0
C6	0	0	0	0	0	0
C6orf10	1	0	0	0	9	0
C6orf106	262	261	324	250	272	254
C6orf118	0	0	0	0	0	0
C6orf120	62	60	50	25	15	19
C6orf132	0	0	0	0	4	8
C6orf136	12	16	21	9	4	0
C6orf141	0	0	0	0	0	0
C6orf15	0	0	0	0	0	0
C6orf163	1	1	1	1	0	3
C6orf201	0	0	0	0	0	0
C6orf203	76	61	68	87	90	40
C6orf222	0	0	0	4	7	35
C6orf223	0	1	0	0	0	0
C6orf226	17	28	30	37	41	40
C6orf47	50	65	58	34	52	61
C6orf48	204	248	255	539	560	636
C6orf52	0	0	0	6	0	8
C6orf58	2	0	0	0	2	13

C6orf62	1158	1013	923	995	930	1153
C6orf89	238	243	221	285	288	279
C6orf99	0	0	0	0	0	0
C7	0	0	0	1	0	0
C7orf25	2	0	0	0	0	3
C7orf26	67	68	60	79	82	71
C7orf31	30	32	31	28	18	13
C7orf33	0	0	0	0	0	0
C7orf43	17	21	9	16	7	0
C7orf50	92	95	97	112	147	151
C7orf57	0	0	0	0	0	0
C7orf61	2	0	1	1	7	8
C7orf65	0	0	0	0	0	0
C7orf66	0	0	0	0	0	0
C7orf69	0	0	0	0	0	0
C7orf71	0	0	0	0	0	0
C8A	0	1	0	0	2	0
C8B	0	0	0	0	0	0
C8G	0	0	0	13	7	8
C8orf31	0	4	0	0	0	0
C8orf33	65	57	61	76	122	143
C8orf34	0	0	1	0	2	3
C8orf37	7	15	2	6	18	19
C8orf44	18	35	31	72	41	94
C8orf48	0	0	0	0	0	0
C8orf58	7	5	7	1	9	0
C8orf59	198	191	240	283	249	282
C8orf74	0	0	0	0	0	0
C8orf76	72	78	59	76	52	61
C8orf82	30	25	28	9	7	3
C8orf86	0	0	0	0	0	0
C8orf87	0	0	0	0	0	0
C9	0	1	0	1	7	13
C9orf106	0	0	0	0	0	0
C9orf116	0	0	1	0	0	0
C9orf129	0	0	0	0	0	0
C9orf131	0	0	0	0	0	0
C9orf135	0	0	0	0	0	0
C9orf139	9	7	11	6	9	0
C9orf152	0	0	0	0	0	0
C9orf153	7	5	0	0	2	13
C9orf16	12	17	15	25	9	8
C9orf163	0	0	0	0	0	0
C9orf170	0	0	0	0	0	0
C9orf24	0	0	0	0	0	0
C9orf3	1	7	8	1	2	0
C9orf40	20	35	25	34	24	13
C9orf43	0	0	3	0	2	0
C9orf50	0	0	0	0	0	3
C9orf57	0	0	0	0	0	0
C9orf64	108	95	85	40	57	40
C9orf66	0	4	3	0	0	3
C9orf72	159	159	152	66	69	56
C9orf78	345	445	326	409	520	438
C9orf84	1	0	0	0	0	8
C9orf85	47	32	42	63	69	75
CA1	1	1	0	1	0	3
CA10	1	0	0	0	2	8
CA11	15	16	29	82	95	89
CA12	0	0	2	1	2	8
CA13	6	9	12	9	7	19
CA14	0	0	0	0	0	0
CA2	87	73	85	31	46	30
CA3	0	0	0	1	0	0
CA4	0	0	0	0	0	0
CASA	1	0	1	0	7	3
CASB	111	86	88	98	122	56
CASBP1	0	0	0	0	0	0
CA6	1	1	5	6	0	13
CA7	0	0	0	0	0	0
CA8	20	13	16	4	0	8
CA9	0	0	0	0	0	0
CAB39	386	391	340	466	440	546
CAB39L	24	20	17	22	27	13
CABIN1	117	122	113	143	120	139
CABLES1	6	1	2	4	4	3
CABLES2	22	24	14	4	2	3
CABP1	0	0	0	0	0	3
CABP2	0	0	0	0	0	0
CABP4	6	2	5	108	52	94
CABP5	0	0	0	0	4	0
CABP7	0	0	1	0	0	0
CABS1	0	0	0	0	0	0
CABYR	1	0	1	19	0	3
CACHD1	0	0	0	0	0	0
CACNA1A	19	16	22	53	54	103
CACNA1B	0	0	0	16	0	13
CACNA1C	0	0	7	9	21	13
CACNA1D	0	1	3	1	2	0
CACNA1E	0	1	0	9	7	40
CACNA1F	0	0	0	0	2	0
CACNA1G	0	1	0	6	0	13
CACNA1H	0	1	2	0	0	0
CACNA1I	18	14	22	31	15	13
CACNA1S	0	0	0	0	0	0
CACNA2D1	5	14	14	48	46	107
CACNA2D2	4	6	15	6	18	0
CACNA2D3	0	1	0	0	0	0
CACNA2D4	31	37	32	74	57	84
CACNB1	10	11	16	0	9	0
CACNB2	1	0	0	4	0	3
CACNB3	4	0	1	1	0	0
CACNB4	22	16	11	79	82	121

CACNG1	0	0	0	0	0	0
CACNG2	0	1	0	4	7	0
CACNG3	0	0	0	0	0	0
CACNG4	0	0	0	0	0	0
CACNG5	0	0	0	0	0	0
CACNG6	2	7	7	6	0	0
CACNG7	0	0	0	0	0	0
CACNG8	1	4	6	16	9	24
CACYBP	341	322	332	286	281	267
CAD	26	31	15	28	30	61
CADM1	143	109	112	219	265	241
CADM2	10	14	14	34	7	56
CADM3	0	0	0	0	0	0
CADM4	2	0	2	0	4	0
CADPS	1	1	5	28	27	35
CADPS2	1	0	0	0	2	0
CAGE1	0	0	0	0	7	24
CAHM	20	19	3	40	27	66
CALB1	0	0	0	0	0	0
CALB2	0	0	0	0	0	0
CALCA	0	0	0	0	0	0
CALCB	1	0	0	19	0	40
CALCOCO1	65	63	75	121	108	107
CALCOCO2	510	533	410	285	305	220
CALCR	4	5	7	58	52	66
CALCRL	5	1	1	0	4	3
CALD1	13	14	8	58	62	94
CALHM1	0	0	0	0	0	0
CALHM2	30	17	18	1	18	0
CALHM3	0	0	0	0	0	0
CALM1	2231	2077	2025	1182	1390	975
CALM2	1871	1802	1482	677	765	654
CALM3	675	859	707	668	727	632
CALML3	0	0	0	0	0	0
CALML4	0	1	0	0	0	0
CALML5	0	0	0	0	0	0
CALML6	0	0	0	0	0	0
CALN1	0	1	0	0	2	0
CALR	1001	1013	1068	199	206	136
CALR3	0	0	0	0	0	0
CALU	216	227	160	56	87	75
CALY	0	0	0	0	2	0
CAMK1	59	41	72	0	0	0
CAMK1D	331	301	283	263	263	203
CAMK1G	0	0	0	0	0	0
CAMK2A	0	0	0	1	0	0
CAMK2B	0	0	0	0	2	3
CAMK2D	176	184	192	300	272	305
CAMK2G	64	55	72	60	62	75
CAMK2N1	62	63	63	48	79	46
CAMK2N2	0	0	0	0	0	0
CAMK4	424	369	395	643	569	508
CAMKK1	6	11	5	9	4	13
CAMKK2	55	49	67	6	27	8
CAMKMT	14	11	15	40	33	46
CAMKV	0	0	0	0	0	0
CAMLG	468	491	408	470	561	393
CAMP	1	2	2	0	0	0
CAMSAP1	85	76	94	58	77	75
CAMSAP2	127	127	137	72	38	51
CAMSAP3	0	0	0	0	0	0
CAMTA1	137	127	119	173	133	182
CAMTA2	64	76	78	19	38	24
CAND1	296	317	337	427	433	438
CAND2	0	1	3	1	0	0
CANT1	66	90	69	63	97	71
CANX	1424	1431	1377	953	991	1054
CAP1	964	899	819	625	661	591
CAP2	1	0	0	1	2	0
CAPG	230	275	273	13	12	0
CAPN1	119	170	119	93	117	56
CAPN10	20	17	40	9	49	3
CAPN11	0	0	0	0	0	0
CAPN12	22	20	23	31	21	3
CAPN13	0	0	0	0	0	0
CAPN14	0	0	0	1	0	0
CAPN2	157	175	176	114	103	84
CAPN3	0	0	0	0	0	0
CAPN5	1	0	2	0	0	0
CAPN6	0	0	0	0	0	0
CAPN7	321	287	293	375	283	408
CAPN8	0	0	0	0	0	3
CAPN9	0	0	0	0	0	0
CAPNS1	143	186	168	103	131	94
CAPNS2	0	0	0	0	0	0
CAPRIN1	220	261	243	243	242	271
CAPRIN2	79	106	107	106	95	61
CAPS	11	5	9	1	4	0
CAPS2	14	22	6	37	33	56
CAPSL	0	0	0	0	0	0
CAPZA1	1025	963	962	777	770	798
CAPZA2	447	487	377	274	281	294
CAPZA3	0	0	0	0	0	0
CAPZB	766	763	780	706	686	687
CARD10	0	0	0	0	0	0
CARD11	70	74	107	103	82	66
CARD14	0	0	0	0	2	3
CARD16	121	148	151	63	79	30
CARD17	1	0	0	0	0	0
CARD18	0	0	0	0	0	0
CARD6	38	40	41	0	9	0
CARD8	453	440	445	489	415	438
CARD9	13	12	11	0	7	0

CARHSP1	41	33	42	25	38	46
CARM1	63	86	100	76	75	89
CARN51	1	0	0	0	0	0
CARS	193	230	255	298	319	301
CARS2	62	52	45	69	49	61
CARTPT	0	0	0	0	0	0
CASC1	1	0	0	40	9	66
CASC2	0	1	1	0	2	0
CASC3	302	300	332	286	314	245
CASC4	159	177	158	195	172	162
CASD1	125	114	122	177	149	185
CASK	123	92	134	219	201	216
CASKIN1	0	0	0	0	0	0
CASKIN2	0	0	0	0	0	0
CASP1	478	554	449	145	181	117
CASP10	55	46	57	56	67	103
CASP12	0	0	0	0	0	0
CASP14	0	0	0	0	0	0
CASP2	114	124	117	151	158	151
CASP3	72	80	83	76	84	66
CASP4	305	295	343	296	265	230
CASP5	1	0	8	0	0	13
CASP6	48	69	43	66	69	79
CASP7	183	182	138	121	117	94
CASP8	615	586	552	569	606	651
CASP8AP2	340	337	348	430	433	470
CASP9	36	46	32	4	9	0
CASQ1	0	0	0	0	0	0
CASQ2	0	0	0	0	0	0
CASR	0	1	3	4	4	0
CASS4	31	16	26	56	49	51
CAST	1213	1091	1105	633	686	569
CASZ1	28	34	29	45	38	66
CAT	310	272	229	114	137	75
CATSPER1	4	1	5	0	0	0
CATSPER2	2	1	6	4	15	8
CATSPER2P1	2	0	2	6	2	30
CATSPER3	0	0	0	1	2	0
CATSPER4	0	0	0	0	0	0
CATSPERB	2	8	6	31	27	56
CATSPERD	0	0	0	0	2	30
CATSPERG	11	4	9	13	2	8
CAV1	4	5	11	19	18	19
CAV2	0	0	0	0	0	0
CAV3	0	0	0	0	0	0
CBFA2T2	110	120	108	121	135	124
CBFA2T3	39	34	34	31	46	30
CBFB	283	295	270	234	238	227
CBL	361	399	375	304	323	385
CBLB	147	161	169	298	240	312
CBLC	0	0	0	0	0	0
CBLL1	169	137	132	250	206	224
CBLN1	0	0	0	0	0	0
CBLN2	0	1	0	0	0	0
CBLN3	6	19	21	51	65	89
CBLN4	0	0	0	0	0	0
CBR1	108	101	93	31	38	30
CBR3	15	15	12	9	15	0
CBR3-AS1	2	4	0	1	9	3
CBR4	137	117	124	171	170	203
CB5	0	0	0	0	0	0
CBWD1	25	28	30	13	12	19
CBWD2	69	42	39	56	35	66
CBWD3	0	0	0	0	0	0
CBWD5	4	11	13	9	4	8
CBWD6	0	1	0	0	0	0
CBX1	198	203	166	217	217	179
CBX2	0	0	0	0	0	0
CBX3	902	832	817	735	725	681
CBX3P2	9	11	7	22	21	30
CBX4	305	371	355	302	345	275
CBX5	313	334	309	529	517	495
CBX6	639	676	653	493	622	422
CBX7	343	393	361	509	520	450
CBX8	6	4	2	1	0	0
CBY1	13	7	14	25	24	0
CBY3	0	0	0	0	0	0
CC2D1A	17	16	13	4	7	0
CC2D1B	45	60	75	43	46	19
CC2D2A	0	0	2	0	0	3
CC2D2B	1	4	5	34	21	94
CCAR1	1128	1023	1122	1504	1348	1528
CCBE1	0	0	0	13	2	8
CCDC102A	7	6	12	4	24	3
CCDC102B	13	14	16	40	21	40
CCDC103	0	0	0	0	0	0
CCDC105	0	0	0	0	0	0
CCDC106	0	1	7	6	0	3
CCDC107	55	47	74	31	52	40
CCDC110	1	2	1	0	0	3
CCDC112	210	175	200	28	46	51
CCDC113	0	0	0	0	0	0
CCDC114	0	0	0	0	0	0
CCDC115	324	310	268	286	326	251
CCDC116	0	0	0	0	0	0
CCDC117	158	161	130	147	155	147
CCDC12	119	122	130	129	153	151
CCDC120	11	9	14	0	0	3
CCDC121	4	0	2	0	0	3
CCDC122	21	29	15	76	60	30
CCDC124	15	9	16	4	12	3
CCDC125	21	19	32	56	38	46
CCDC126	58	54	53	31	24	24

CCDC127	56	57	72	72	127	71
CCDC13	0	0	0	1	0	0
CCDC130	114	128	148	193	168	117
CCDC134	4	0	1	0	2	0
CCDC136	15	15	21	9	7	3
CCDC137	48	55	60	79	65	61
CCDC138	25	24	23	16	21	30
CCDC14	126	120	122	151	103	121
CCDC140	0	0	0	0	2	0
CCDC141	15	17	37	63	18	46
CCDC142	4	2	7	40	33	24
CCDC144A	2	0	0	0	0	19
CCDC144B	18	15	28	22	9	3
CCDC144NL	0	0	0	0	0	0
CCDC146	85	79	95	145	117	169
CCDC148	4	0	0	4	0	0
CCDC149	17	26	15	0	0	0
CCDC15	31	23	14	84	65	139
CCDC150	0	4	3	13	2	13
CCDC151	0	0	0	0	0	0
CCDC152	76	39	53	143	113	154
CCDC153	0	0	0	0	0	0
CCDC154	0	1	2	4	2	0
CCDC155	0	0	0	0	0	0
CCDC157	0	0	0	0	0	0
CCDC158	1	0	0	0	0	0
CCDC159	7	12	11	0	0	13
CCDC160	0	0	0	0	0	0
CCDC162P	1	1	0	0	0	0
CCDC166	0	0	0	0	0	0
CCDC167	28	26	18	6	21	0
CCDC168	2	7	9	19	2	19
CCDC169	1	1	0	0	0	0
CCDC169-SOHLH2	0	0	0	0	0	0
CCDC17	0	0	0	0	2	3
CCDC18	124	101	116	171	172	230
CCDC22	32	37	32	9	24	19
CCDC24	0	0	0	0	0	0
CCDC25	263	238	234	321	319	301
CCDC27	0	0	0	0	0	0
CCDC28A	217	219	210	161	210	107
CCDC28B	19	20	23	40	9	24
CCDC3	0	0	0	0	0	0
CCDC30	20	8	22	84	41	151
CCDC33	0	0	0	0	0	0
CCDC34	38	42	37	40	21	8
CCDC36	0	0	0	0	0	0
CCDC38	0	0	0	0	0	0
CCDC39	0	0	0	0	0	0
CCDC40	0	0	1	0	0	0
CCDC42	0	0	0	0	0	0
CCDC43	132	113	115	93	103	94
CCDC47	276	261	246	82	140	75
CCDC50	212	249	227	245	265	264
CCDC51	19	23	9	34	33	51
CCDC54	0	0	0	0	0	0
CCDC57	6	19	23	28	30	13
CCDC58	35	19	28	53	30	75
CCDC59	348	339	323	342	410	411
CCDC6	172	158	126	171	131	154
CCDC60	0	0	0	0	0	0
CCDC61	5	9	6	0	0	0
CCDC62	4	2	1	48	21	112
CCDC63	0	0	0	0	0	3
CCDC65	9	7	9	6	0	3
CCDC66	248	238	291	391	376	400
CCDC68	1	0	5	1	0	0
CCDC69	100	92	94	123	117	107
CCDC7	158	133	157	409	350	518
CCDC70	0	0	0	0	0	0
CCDC71	29	35	47	9	12	3
CCDC71L	115	97	107	106	49	51
CCDC73	6	5	3	1	2	13
CCDC74A	0	0	0	0	0	8
CCDC74B	0	0	0	0	0	0
CCDC77	37	38	24	13	18	35
CCDC78	0	0	0	0	0	0
CCDC8	0	0	0	0	0	0
CCDC80	0	0	1	1	0	3
CCDC81	1	0	8	34	15	24
CCDC82	237	177	215	245	172	132
CCDC83	0	0	0	0	0	0
CCDC84	162	178	213	167	153	254
CCDC85A	0	0	0	0	0	0
CCDC85B	6	17	21	4	7	0
CCDC85C	12	5	8	4	24	13
CCDC86	14	13	12	13	9	3
CCDC87	0	0	0	0	0	0
CCDC88A	1099	1006	811	252	214	321
CCDC88B	29	55	39	56	72	75
CCDC88C	520	463	531	772	786	760
CCDC89	0	0	0	0	2	0
CCDC9	14	6	5	0	4	0
CCDC90B	179	167	119	187	195	165
CCDC91	407	359	373	596	584	647
CCDC92	79	63	67	51	75	51
CCDC93	191	157	172	237	199	216
CCDC96	1	6	0	9	7	24
CCDC97	54	62	79	13	41	35
CCHCR1	5	6	6	0	2	3
CCIN	0	0	0	0	0	0
CCK	0	0	0	0	0	0
CCKAR	0	0	0	0	0	0

CCKBR	0	0	0	0	0	0
CCL1	0	0	0	0	0	0
CCL11	0	0	0	0	0	0
CCL13	4	7	6	0	0	0
CCL14	0	0	0	0	0	0
CCL15	0	0	0	0	0	0
CCL16	0	1	1	16	7	19
CCL17	1	0	0	0	0	0
CCL18	0	0	0	0	2	0
CCL19	0	0	3	4	2	0
CCL2	378	518	439	37	129	103
CCL20	23	28	23	63	87	66
CCL21	0	0	0	0	0	0
CCL22	29	35	50	9	46	24
CCL23	0	0	0	0	0	0
CCL24	0	0	0	0	0	0
CCL25	0	0	0	0	0	0
CCL26	0	0	0	0	0	0
CCL27	0	0	0	0	0	0
CCL28	23	20	20	22	15	13
CCL3	245	287	232	254	436	199
CCL3L1	48	25	52	48	100	30
CCL4	276	293	268	288	385	245
CCL4L2	111	96	75	192	187	128
CCL5	968	1078	1024	1448	1582	1253
CCL7	10	13	17	6	46	3
CCL8	37	54	72	0	0	0
CCM2	103	113	130	201	193	162
CCNA1	7	2	8	0	0	0
CCNA2	12	7	5	22	27	19
CCNB1	7	4	2	1	7	3
CCNB1IP1	31	22	8	31	30	19
CCNB2	0	0	0	4	2	8
CCNB3	1	0	6	1	4	13
CCNC	183	189	185	294	292	291
CCND1	1	2	3	0	2	8
CCND2	683	648	640	483	535	447
CCND3	118	115	133	224	223	165
CCNDBP1	196	194	176	179	193	147
CCNE1	5	7	9	6	2	24
CCNE2	4	2	5	1	15	19
CCNF	9	16	6	9	0	0
CCNG1	166	155	133	268	249	258
CCNG2	212	151	135	136	191	169
CCNH	54	49	55	74	57	132
CCNI	1410	1482	1338	820	1001	463
CCNI2	0	0	0	0	0	0
CCNJ	11	20	16	16	21	0
CCNJL	2	1	2	4	9	8
CCNK	207	174	202	257	245	312
CCNL1	1733	1551	1710	1289	1052	1287
CCNL2	430	412	482	360	391	402
CCNO	0	0	0	0	0	0
CCNT1	223	234	234	563	471	562
CCNT2	225	186	233	402	321	388
CCNY	321	283	285	285	281	275
CCNYL1	148	146	137	48	46	30
CCP110	129	107	104	203	168	179
CCPG1	154	115	117	34	38	8
CCR1	1034	1109	1068	66	144	112
CCR10	0	0	0	1	0	19
CCR2	155	146	115	1	2	8
CCR3	29	25	32	9	7	8
CCR4	21	11	12	6	33	0
CCR5	229	219	200	72	79	51
CCR6	0	0	0	0	0	0
CCR7	139	169	189	470	459	651
CCR8	0	0	0	0	0	0
CCR9	0	1	1	0	0	0
CCRL2	38	28	32	4	15	0
CCS	12	22	25	22	43	13
CCT2	454	427	426	590	593	546
CCT3	183	223	224	217	265	271
CCT4	253	241	210	311	304	372
CCT5	377	399	435	304	292	254
CCT6A	499	473	456	687	622	699
CCT6B	10	1	3	45	33	66
CCT6P1	6	6	1	4	0	0
CCT6P3	1	0	1	0	2	0
CCT7	152	185	190	187	187	158
CCT8	394	359	287	472	443	463
CCT8L2	0	0	0	0	0	0
CCZ1	180	175	190	159	170	162
CCZ1B	80	79	89	60	95	79
CD101	9	12	11	1	0	0
CD109	28	19	24	19	49	75
CD14	259	291	296	0	4	3
CD151	29	33	34	0	0	0
CD160	21	20	16	28	27	35
CD163	47	78	57	0	4	8
CD163L1	0	0	0	0	0	0
CD164	510	445	389	271	304	314
CD164L2	0	0	0	0	0	0
CD177	0	0	0	0	0	0
CD180	51	49	60	1	12	0
CD19	36	33	60	112	103	98
CD1A	1	0	1	0	0	0
CD1B	0	4	1	0	0	0
CD1C	11	14	9	0	0	0
CD1D	26	20	20	0	0	3
CD1E	4	7	9	0	0	0
CD2	782	759	813	1238	1281	1269
CD200	19	16	17	43	38	66

CD200R1	47	35	29	48	41	66
CD200R1L	0	0	0	0	0	0
CD207	0	0	0	0	0	0
CD209	17	16	18	0	0	0
CD22	32	32	31	34	67	46
CD226	220	213	217	157	236	154
CD24	5	13	5	6	12	8
CD244	41	40	39	25	49	24
CD247	620	676	712	1030	1144	1031
CD248	0	2	3	0	0	0
CD27	107	114	145	252	268	165
CD274	174	173	169	60	69	66
CD276	20	43	50	0	4	0
CD28	128	136	144	203	236	192
CD2AP	153	153	144	163	137	203
CD2BP2	88	81	75	110	120	94
CD300A	58	72	72	34	54	56
CD300C	22	17	16	0	0	0
CD300E	30	40	20	0	0	0
CD300LB	21	21	8	0	0	0
CD300LD	0	0	0	0	0	0
CD300LF	151	136	129	0	2	0
CD300LG	0	0	0	0	0	0
CD302	92	66	72	6	0	8
CD320	7	15	13	51	24	51
CD33	70	66	44	1	2	0
CD34	1	0	0	1	0	0
CD36	644	624	544	13	9	51
CD37	223	255	245	377	433	459
CD38	82	67	69	25	33	30
CD3D	152	215	181	294	340	245
CD3E	152	175	172	250	285	237
CD3EAP	19	17	21	19	4	0
CD3G	746	824	693	1009	1036	855
CD4	68	57	52	45	30	30
CD40	142	148	155	114	87	94
CD40LG	46	31	31	76	87	56
CD44	2173	2322	2372	1840	1942	1663
CD46	556	505	574	448	330	365
CD47	636	601	669	607	574	518
CD48	897	796	837	772	909	846
CD5	209	229	214	497	470	463
CD52	665	832	994	1030	1209	833
CD53	844	879	809	627	716	546
CD55	294	303	263	268	316	230
CD58	140	159	169	28	62	19
CD59	78	81	93	100	108	66
CD5L	0	0	0	0	0	0
CD6	130	146	158	351	380	329
CD63	2967	2936	2707	325	506	291
CD68	176	248	342	4	2	0
CD69	310	261	275	169	232	203
CD7	25	39	45	103	124	79
CD70	0	1	5	0	0	0
CD72	6	15	13	16	9	3
CD74	2936	3324	3427	984	1150	1002
CD79A	39	55	54	110	92	71
CD79B	42	31	31	48	46	46
CD80	4	6	6	0	0	0
CD81	308	319	333	254	232	196
CD82	37	54	71	171	187	117
CD83	312	312	277	257	314	230
CD84	431	442	479	163	223	121
CD86	305	366	301	43	60	56
CD8A	328	309	319	512	527	478
CD8B	49	50	22	72	111	40
CD9	580	666	422	51	77	71
CD93	30	33	20	1	9	0
CD96	264	277	320	315	326	275
CD99	202	205	160	199	221	196
CD99L2	32	47	32	31	30	35
CD99P1	0	6	3	0	2	0
CDA	9	12	11	0	0	0
CDADC1	66	42	60	37	49	13
CDAN1	14	4	12	1	2	8
CDC123	123	124	119	141	117	165
CDC14A	129	113	101	230	203	213
CDC14B	17	17	14	6	2	19
CDC16	99	104	123	123	133	117
CDC20	0	0	1	0	0	0
CDC20B	1	5	2	16	21	46
CDC23	103	86	68	60	124	71
CDC25A	1	4	1	4	0	24
CDC25B	207	202	212	149	142	71
CDC25C	0	0	0	0	0	8
CDC26	2	2	0	1	0	0
CDC27	178	173	154	213	203	224
CDC34	30	42	32	37	54	40
CDC37	281	312	326	266	345	301
CDC37L1	72	80	69	117	106	147
CDC40	340	294	270	300	316	294
CDC42	14	14	6	0	2	8
CDC42BPA	14	7	3	16	12	30
CDC42BPB	61	57	51	6	18	0
CDC42BPG	5	2	6	9	9	61
CDC42EP1	6	2	8	0	0	0
CDC42EP2	0	0	0	0	0	0
CDC42EP3	246	221	195	278	254	237
CDC42EP4	1	4	0	0	0	0
CDC42EP5	0	0	0	0	0	0
CDC42SE1	747	793	840	800	778	569
CDC42SE2	1323	1380	1322	1900	2025	2025
CDC45	0	0	0	0	0	0

CDC5L	351	270	326	261	290	301
CDC6	5	1	1	4	2	0
CDC7	25	11	12	22	12	19
CDC73	291	258	299	285	300	251
CDCA2	2	7	8	6	9	0
CDCA3	0	4	3	0	9	0
CDCA4	45	42	28	108	69	136
CDCA5	0	0	0	0	0	0
CDCA7	25	31	20	19	12	0
CDCA7L	38	42	22	51	57	19
CDCA8	7	17	9	4	7	0
CDCP1	11	5	6	0	0	0
CDCP2	0	0	0	0	0	0
CDH1	13	8	13	22	21	51
CDH10	0	1	0	0	0	0
CDH11	1	1	5	0	2	0
CDH12	1	0	0	0	4	0
CDH13	0	5	1	19	18	30
CDH15	0	0	0	0	2	0
CDH16	0	0	0	0	0	0
CDH17	0	0	0	1	0	0
CDH18	1	0	0	0	0	0
CDH19	7	7	13	28	15	56
CDH2	9	14	12	56	33	98
CDH20	0	0	0	0	0	0
CDH22	0	0	0	0	0	0
CDH23	5	6	1	4	0	0
CDH24	0	0	0	0	0	0
CDH26	1	1	2	0	0	0
CDH3	1	1	0	9	18	46
CDH4	0	0	1	13	4	24
CDH5	0	0	0	0	2	0
CDH6	1	2	0	9	0	19
CDH7	1	11	16	56	41	103
CDH8	1	0	2	1	0	19
CDH9	0	0	0	0	2	3
CDHR1	0	0	0	0	0	0
CDHR2	0	0	0	1	0	0
CDHR3	9	5	7	31	15	30
CDHR4	0	0	0	4	0	0
CDHR5	0	0	0	0	0	0
CDIPT	115	146	134	100	111	89
CDK1	4	6	2	60	7	40
CDK10	34	35	48	37	43	51
CDK11A	24	29	31	37	21	40
CDK11B	117	82	84	163	162	139
CDK12	323	296	350	286	281	359
CDK13	250	230	243	325	300	385
CDK14	64	58	44	31	24	71
CDK15	0	0	0	0	0	0
CDK16	22	38	47	48	54	24
CDK17	172	154	141	293	281	340
CDK18	0	0	0	0	0	0
CDK19	326	308	263	263	270	249
CDK2	121	136	108	106	131	176
CDK20	11	11	7	16	2	0
CDK2AP1	0	0	0	0	0	0
CDK2AP2	125	165	157	90	117	19
CDK3	0	0	0	0	0	0
CDK4	48	50	75	45	60	56
CDK5	11	5	15	0	2	0
CDK5R1	77	81	75	294	234	376
CDK5R2	0	0	0	0	0	0
CDK5RAP1	55	61	48	87	62	61
CDK5RAP2	153	122	194	241	208	275
CDK5RAP3	79	81	115	106	111	66
CDK6	305	270	286	211	261	216
CDK7	29	26	37	28	18	19
CDK8	56	37	34	51	35	56
CDK9	48	49	34	25	24	30
CDKAL1	38	43	54	53	67	40
CDKL1	11	2	12	4	4	0
CDKL2	1	0	0	9	4	8
CDKL3	4	5	2	25	18	30
CDKL4	0	0	0	0	0	0
CDKL5	11	13	15	22	7	0
CDKN1A	274	325	302	95	103	128
CDKN1B	421	411	402	743	718	711
CDKN1C	28	17	40	103	41	117
CDKN2A	7	14	7	37	21	24
CDKN2AIP	191	175	181	333	325	285
CDKN2AIPNL	9	17	12	37	12	0
CDKN2B	7	8	6	0	0	0
CDKN2B-AS1	9	1	6	4	0	0
CDKN2C	6	6	7	0	2	0
CDKN2D	241	238	214	211	174	162
CDKN3	2	7	5	0	0	0
CDNF	0	1	0	6	7	0
CDO1	1	0	2	9	4	30
CDON	25	6	7	22	9	51
CDR1	0	0	0	0	0	0
CDR2	55	49	37	134	113	158
CDR2L	0	0	1	0	2	0
CDRT1	0	0	0	0	0	0
CDRT15	0	0	0	0	0	0
CDRT15L2	0	0	0	0	0	0
CDRT15P1	0	0	0	0	0	0
CDRT15P2	0	0	0	0	0	0
CDRT4	0	1	2	0	7	8
CDRT7	0	0	0	0	0	0
CDS1	13	22	22	9	27	8
CDS2	167	150	190	155	191	158
CDSN	0	0	0	0	0	0

CDT1	0	1	0	0	0	0
CDV3	692	724	807	720	822	778
CDX1	0	0	0	0	0	0
CDX2	0	0	0	6	0	13
CDX4	0	0	0	0	0	0
CDY1	0	0	0	0	0	0
CDY1B	0	0	0	0	0	0
CDY2A	0	0	0	0	0	0
CDY2B	0	0	0	0	0	0
CDYL	94	130	103	151	181	169
CDYL2	30	28	31	60	54	40
CEACAM1	14	15	14	1	12	24
CEACAM16	0	0	0	0	0	0
CEACAM18	0	0	0	0	0	0
CEACAM19	1	0	0	0	0	0
CEACAM20	0	0	0	0	0	0
CEACAM21	17	7	12	34	30	24
CEACAM22P	0	0	1	1	2	3
CEACAM3	1	0	2	0	0	0
CEACAM4	2	0	1	0	0	0
CEACAM5	0	0	0	0	0	0
CEACAM6	0	1	1	0	0	0
CEACAM7	0	0	0	0	0	0
CEACAM8	1	1	1	13	12	8
CEBPA	215	192	164	0	0	3
CEBPB	887	968	958	317	401	365
CEBPD	142	133	116	79	153	117
CEBPE	1	4	0	0	0	3
CEBPG	158	185	148	121	113	117
CEBPZ	647	570	531	755	643	773
CECR2	6	4	2	4	0	3
CECR3	0	0	1	0	0	0
CECR7	1	1	0	0	0	0
CEL	0	0	0	0	0	0
CELA1	0	2	0	4	0	0
CELA2A	0	0	0	0	0	3
CELA2B	0	0	0	0	0	0
CELA3A	0	0	0	0	0	0
CELA3B	0	0	0	0	0	0
CELF1	1031	1042	1139	1073	1049	1078
CELF2	1658	1663	1733	1592	1551	1370
CELF3	0	0	0	0	0	0
CELF4	2	0	0	22	21	30
CELF5	0	5	0	169	79	258
CELF6	0	0	0	0	0	0
CELP	0	0	0	0	0	0
CELSR1	4	6	5	0	7	13
CELSR2	15	12	7	25	12	56
CELSR3	5	4	6	1	0	8
CENP1	0	0	0	0	0	0
CEND1	0	0	0	0	0	0
CENPA	0	2	0	4	2	8
CENPB	63	52	58	63	103	30
CENPBD1	26	23	15	28	12	8
CENPE	42	24	35	34	12	71
CENPF	20	15	28	19	21	35
CENPH	13	11	16	19	9	19
CENPI	2	2	2	0	0	0
CENPJ	72	55	80	40	30	56
CENPK	95	81	74	93	84	103
CENPL	22	24	21	63	57	89
CENPM	6	7	2	25	33	30
CENPN	4	14	14	6	0	0
CENPO	7	5	5	13	7	8
CENPP	7	7	17	0	4	3
CENPQ	34	37	41	34	30	24
CENPT	22	23	26	16	33	24
CENPV	4	5	5	0	4	3
CENPW	25	34	29	0	0	0
CEP104	171	193	202	276	254	233
CEP112	2	5	7	1	4	13
CEP120	161	190	172	237	245	237
CEP128	45	38	54	48	35	75
CEP135	259	262	283	448	325	408
CEP152	110	152	128	125	120	124
CEP164	106	120	106	112	113	79
CEP170	154	161	129	114	97	139
CEP170P1	0	0	0	0	0	0
CEP19	25	28	13	58	69	84
CEP192	122	109	126	241	214	251
CEP250	37	52	48	58	67	24
CEP290	400	369	417	585	413	518
CEP350	1000	1000	1130	921	896	975
CEP41	50	50	42	76	69	124
CEP44	117	117	96	136	135	117
CEP55	4	4	3	0	2	0
CEP57	317	280	283	317	399	275
CEP57L1	32	32	24	9	12	8
CEP63	188	234	214	209	212	297
CEP68	117	113	122	192	177	210
CEP70	29	26	25	53	60	66
CEP72	6	5	13	4	15	3
CEP76	24	21	40	9	41	30
CEP78	195	187	176	106	135	188
CEP85	59	41	44	16	27	24
CEP85L	332	285	364	441	378	453
CEP89	42	24	35	51	54	61
CEP95	129	127	120	157	137	185
CEP97	76	65	94	76	69	71
CEPT1	179	192	185	179	221	207
CER1	0	0	0	0	0	0
CERCAM	0	1	0	0	4	0
CERK	103	120	116	304	270	362

CERKL	0	0	0	0	0	0
CERS1	0	0	0	0	0	0
CERS2	229	248	248	182	183	176
CERS3	2	0	0	1	2	3
CERS4	5	6	13	1	2	8
CERS5	48	63	74	51	57	40
CERS6	225	224	222	93	87	112
CES1	6	6	3	0	0	0
CES1P1	0	2	0	9	15	24
CES1P2	0	0	0	0	0	0
CES2	68	56	62	72	115	56
CES3	0	0	0	0	0	0
CES4A	1	1	2	0	0	13
CES5A	0	0	0	1	0	0
CES5AP1	0	0	0	0	0	0
CETN1	0	0	0	0	0	0
CETN2	51	35	46	40	54	40
CETN3	167	223	181	329	343	340
CETN4P	0	1	0	0	0	0
CETP	0	0	0	9	7	0
CFB	6	12	15	0	0	0
CFC1	0	0	0	0	0	0
CFC1B	0	0	0	0	0	0
CFD	56	56	68	6	12	19
CFDP1	208	224	178	165	140	132
CFH	17	17	14	9	24	0
CFHR1	0	0	0	0	0	0
CFHR2	0	0	0	0	0	0
CFHR3	0	0	0	1	2	8
CFHR4	0	0	0	9	0	3
CFHR5	0	0	0	0	0	0
CFI	0	0	0	1	0	0
CFL1	1545	1650	1507	1101	1192	1048
CFL1P1	7	1	5	9	7	24
CFL2	44	48	36	19	27	61
CFLAR	645	660	763	837	838	855
CFLAR-AS1	0	1	1	6	9	40
CFP	60	74	55	28	15	19
CFTR	0	0	1	0	0	0
CGA	0	0	0	0	0	0
CGB1	0	0	0	0	0	0
CGB2	0	0	0	0	0	0
CGB5	0	0	0	0	0	0
CGB7	0	0	0	0	0	0
CGB8	0	0	0	0	0	0
CGGBP1	448	450	442	554	572	540
CGN	4	4	0	9	2	24
CGNL1	0	1	0	4	0	3
CGREF1	0	0	0	0	0	0
CGRRF1	41	42	30	34	43	46
CH25H	2	0	0	0	0	8
CHAC1	2	2	0	16	7	8
CHAC2	1	7	3	0	7	3
CHAD	1	0	0	1	0	0
CHADL	0	0	0	0	0	0
CHAF1A	55	76	61	82	67	94
CHAF1B	2	2	1	1	0	0
CHAMP1	72	70	62	72	43	71
CHAT	0	0	0	0	0	0
CHCHD1	108	113	95	72	113	89
CHCHD10	92	111	112	79	90	94
CHCHD2	552	621	591	515	632	472
CHCHD3	55	72	40	60	52	51
CHCHD4	52	50	48	34	49	46
CHCHD5	4	11	8	0	7	0
CHCHD6	4	2	3	0	7	3
CHCHD7	116	121	123	74	106	79
CHD1	612	574	672	876	824	889
CHD1L	92	93	93	114	124	98
CHD2	866	876	968	1222	1075	1408
CHD3	373	441	519	531	547	521
CHD4	177	212	221	180	174	245
CHD5	0	0	0	19	4	3
CHD6	172	181	238	358	311	435
CHD7	110	148	165	237	195	261
CHD8	225	255	279	369	338	388
CHD9	463	481	453	404	397	362
CHDH	1	5	2	43	21	40
CHEK1	15	7	9	34	21	19
CHEK2	4	7	3	0	0	13
CHEK2P2	0	0	0	0	0	0
CHERP	207	175	187	232	238	291
CHFR	124	84	108	100	106	56
CHGA	0	0	0	0	0	0
CHGB	0	0	0	0	0	0
CHI3L1	28	49	39	0	9	0
CHI3L2	2	11	6	19	9	19
CHIA	0	0	0	0	0	0
CHIC1	44	38	31	84	38	19
CHIC2	62	58	57	87	82	51
CHID1	66	82	61	31	54	24
CHIT1	1	0	1	0	4	3
CHKA	74	57	55	25	15	13
CHKB	18	20	28	0	4	0
CHKB-CPT1B	0	0	0	0	0	0
CHL1	5	2	0	13	18	13
CHM	106	121	123	155	172	192
CHML	82	60	91	60	69	61
CHMP1A	56	68	44	51	41	40
CHMP1B	436	418	390	391	498	379
CHMP2A	158	131	134	100	127	79
CHMP2B	367	363	336	298	369	297
CHMP3	410	466	404	313	321	267

CHMP4A	28	38	44	56	67	51
CHMP4B	472	546	522	519	595	482
CHMP4C	1	0	0	4	2	0
CHMP5	314	312	263	309	297	317
CHMP6	12	15	21	6	4	8
CHMP7	170	186	204	145	179	136
CHN1	7	8	5	19	21	19
CHN2	1	1	1	0	0	0
CHODL	2	0	0	4	2	13
CHODL-AS1	0	0	0	0	0	0
CHORDC1	198	197	229	197	203	207
CHP2	0	0	0	0	0	0
CHPF	5	5	2	0	7	0
CHPF2	49	63	72	79	72	61
CHPT1	118	80	85	66	75	56
CHRA1	113	97	109	76	67	98
CHRD	0	0	0	0	0	0
CHRD1	0	0	0	0	0	0
CHRD2	0	0	0	0	0	0
CHRFAM7A	0	0	0	0	0	0
CHRM1	0	0	0	0	0	0
CHRM2	0	0	0	0	0	0
CHRM3	2	6	1	13	4	24
CHRM4	0	0	0	0	0	0
CHRM5	0	0	0	0	0	3
CHRNA1	0	0	0	6	4	3
CHRNA10	4	4	3	6	7	8
CHRNA2	0	0	0	0	0	0
CHRNA3	0	0	0	0	0	0
CHRNA4	0	0	0	0	0	0
CHRNA5	4	1	0	0	0	0
CHRNA6	0	0	0	25	7	19
CHRNA7	0	0	2	1	7	0
CHRNA9	0	0	0	74	33	162
CHRN1	23	22	12	22	9	0
CHRN2	0	0	0	0	0	0
CHRN3	0	0	0	0	0	0
CHRN4	0	0	0	0	0	0
CHRN5	0	0	0	0	0	0
CHRN6	1	0	0	0	0	0
CHRN7	0	0	0	0	0	0
CHST1	0	1	0	4	15	3
CHST10	1	1	3	0	2	0
CHST11	419	490	481	261	319	312
CHST12	87	121	93	161	144	162
CHST13	12	14	13	0	0	0
CHST14	38	47	41	34	33	13
CHST15	31	40	48	13	9	19
CHST2	126	154	128	60	65	24
CHST3	0	0	0	0	0	0
CHST4	0	0	0	0	0	0
CHST5	0	0	0	0	0	0
CHST6	0	0	0	6	0	8
CHST7	34	24	15	13	15	24
CHST8	0	0	0	0	0	0
CHST9	6	1	0	0	0	0
CHSY1	123	133	106	74	122	79
CHSY3	0	0	0	0	0	0
CHTF18	2	6	11	4	2	13
CHTF8	133	137	162	217	187	203
CHTOP	291	312	259	343	382	352
CHUK	146	117	115	98	72	75
CHURC1	333	368	370	439	485	472
CHURC1-FNTB	0	0	0	0	0	0
CIAO1	42	48	60	63	82	40
CIAPIN1	25	28	25	53	43	61
CIB1	220	245	277	271	297	227
CIB2	0	1	0	0	0	0
CIB3	0	0	0	0	0	0
CIB4	0	0	0	0	0	0
CIC	41	46	84	34	62	30
CIDEA	0	0	0	0	0	0
CIDE8	9	17	13	4	4	0
CIDEC	0	0	0	1	2	0
CIDEC1	21	17	34	16	18	13
CIITA	243	236	282	28	30	35
CILP	0	1	1	4	0	0
CILP2	0	0	0	0	0	3
CINP	20	23	26	13	12	3
CIR1	685	645	689	706	698	829
CIRBP	455	482	539	366	419	305
CIRBP-AS1	0	0	0	0	0	0
CISD1	92	70	61	60	65	79
CISD2	133	142	127	45	72	56
CISD3	34	56	60	37	24	13
CISH	154	121	122	6	21	46
CIT	2	1	2	1	0	3
CITED1	0	0	0	0	0	0
CITED2	213	206	178	134	147	147
CITED4	6	2	5	0	0	0
CIZ1	74	67	88	66	49	51
CKAP2	52	67	61	34	54	13
CKAP2L	1	5	5	6	0	13
CKAP4	174	216	163	278	249	185
CKAP5	103	122	119	100	120	75
CKB	0	2	0	1	0	0
CKLF	196	204	164	157	133	132
CKLF-CMTM1	0	0	0	0	0	0
CKM	0	0	0	0	0	0
CKMT1A	0	0	0	0	0	0
CKMT1B	0	0	0	0	0	0
CKMT2	0	0	0	0	0	8
CKS1B	50	67	39	110	75	75

CKS2	17	13	14	22	35	35
CLASP1	132	106	163	195	170	165
CLASP2	173	186	200	136	135	158
CLASRP	47	52	89	63	41	71
CLC	90	94	72	84	79	75
CLCA1	0	0	0	0	0	0
CLCA2	2	2	2	0	0	8
CLCA3P	1	0	0	0	0	0
CLCA4	0	0	0	0	0	0
CLCC1	95	88	77	37	54	13
CLCF1	10	19	7	1	4	0
CLCN1	0	0	0	0	0	0
CLCN2	7	6	5	43	9	51
CLCN3	244	223	183	383	328	419
CLCN4	32	31	24	37	12	66
CLCN5	52	28	46	4	2	8
CLCN6	38	54	47	34	38	51
CLCN7	88	82	135	103	72	98
CLCNKA	0	0	0	0	0	0
CLCNKB	0	0	0	0	0	0
CLDN1	0	2	0	0	0	0
CLDN10	0	0	0	0	0	0
CLDN11	0	0	0	1	0	0
CLDN12	4	7	3	19	7	56
CLDN14	0	0	0	0	0	0
CLDN15	29	41	58	169	166	124
CLDN16	0	0	0	0	0	0
CLDN17	0	0	0	0	0	0
CLDN18	0	0	0	0	7	3
CLDN19	0	0	0	1	0	0
CLDN2	0	0	0	0	0	0
CLDN20	0	0	0	0	0	0
CLDN22	0	0	0	0	0	0
CLDN23	4	2	2	0	0	0
CLDN24	0	0	0	0	0	0
CLDN25	0	0	0	0	0	0
CLDN3	0	0	0	0	0	0
CLDN4	0	0	0	0	0	0
CLDN5	0	0	0	0	0	0
CLDN6	0	0	0	0	0	0
CLDN7	2	6	1	0	0	0
CLDN8	0	1	0	0	0	0
CLDN9	0	0	0	0	0	0
CLDND1	205	201	176	336	367	301
CLDND2	1	1	5	1	2	0
CLEC10A	299	295	198	0	4	0
CLEC11A	4	7	5	0	0	0
CLEC12A	146	166	136	13	21	8
CLEC12B	1	1	0	0	0	0
CLEC14A	0	0	0	1	2	19
CLEC16A	49	31	36	76	38	79
CLEC17A	0	0	0	0	0	0
CLEC18A	0	0	0	0	0	0
CLEC18B	0	0	0	0	0	0
CLEC18C	0	0	0	0	0	0
CLEC19A	5	6	1	13	12	24
CLEC1A	2	0	1	0	0	0
CLEC1B	1	0	1	4	0	3
CLEC2A	0	0	0	0	0	0
CLEC2B	433	402	337	276	352	291
CLEC2D	966	1044	1153	1528	1497	1397
CLEC2L	0	0	0	1	0	0
CLEC3A	0	0	0	0	0	0
CLEC3B	0	0	0	0	0	0
CLEC4A	23	12	22	0	0	0
CLEC4C	0	1	0	0	0	0
CLEC4D	44	30	36	0	2	0
CLEC4E	371	399	442	1	27	13
CLEC4F	1	0	0	0	0	0
CLEC4G	0	0	0	0	0	0
CLEC4GP1	0	0	0	0	0	0
CLEC4M	0	0	0	0	0	0
CLEC5A	433	538	494	13	35	3
CLEC6A	17	20	12	0	0	0
CLEC7A	555	513	476	13	9	13
CLEC9A	0	0	0	0	0	0
CLECL1	11	11	12	28	46	30
CLGN	0	0	0	0	2	0
CLIC1	193	259	319	149	181	124
CLIC2	35	45	30	16	15	19
CLIC3	5	11	12	1	9	0
CLIC4	202	201	172	82	90	66
CLIC5	18	23	14	22	54	0
CLIC6	2	0	0	0	0	0
CLINT1	786	736	743	870	826	824
CLIP1	769	682	743	452	466	482
CLIP2	14	5	17	4	9	0
CLIP3	1	0	0	0	0	0
CLIP4	179	159	190	248	246	241
CLK1	594	584	637	1128	1238	1002
CLK2	116	117	136	125	172	124
CLK3	95	71	91	201	210	207
CLK4	165	178	173	230	257	192
LLU1	14	6	8	40	67	107
LLU10S	0	2	3	0	15	0
CLMN	49	60	48	1	4	8
CLMP	0	0	0	0	4	8
CLN3	4	6	7	16	4	3
CLN5	133	165	141	213	197	340
CLN6	4	6	8	0	0	0
CLN8	67	79	89	28	27	30
CLNK	6	5	3	19	2	40
CLNS1A	255	230	190	234	330	249

CLOCK	190	161	183	217	236	227
CLP1	50	37	31	51	49	51
CLPB	69	81	83	45	57	51
CLPP	70	69	66	100	79	24
CLPS	0	0	0	0	0	0
CLPSL1	0	0	0	0	0	0
CLPSL2	0	0	0	0	0	0
CLPTM1	30	52	63	56	41	51
CLPTM1L	294	294	302	302	252	261
CLPX	255	202	181	281	232	241
CLRN1	0	0	0	0	0	0
CLRN1-AS1	0	0	0	0	0	0
CLRN2	0	0	0	0	0	0
CLRN3	0	0	0	0	0	0
CLSPN	20	13	14	16	24	24
CLSTN1	231	243	278	293	279	179
CLSTN2	1	0	1	0	0	0
CLSTN3	15	24	21	9	15	13
CLTA	206	237	209	157	183	192
CLTB	48	43	48	16	30	0
CLTC	789	786	741	632	547	668
CLTCL1	4	0	0	0	0	0
CLU	23	15	24	31	35	30
CLUAP1	49	61	55	125	97	165
CLUL1	0	0	0	0	0	0
CLVS1	0	0	0	4	0	3
CLVS2	0	0	0	6	0	8
CLYBL	26	24	30	22	43	13
CMA1	0	0	0	0	0	0
CMAHP	48	68	90	69	82	40
CMA5	181	166	172	136	135	84
CMBL	0	0	0	0	0	0
CMC1	248	225	209	314	343	261
CMC2	62	60	90	95	100	89
CMIP	514	693	736	646	658	482
CMKLR1	249	213	226	25	30	19
CMPK1	486	425	450	576	656	546
CMPK2	83	87	85	13	35	61
CMTM1	0	0	0	0	0	0
CMTM2	0	0	0	6	0	0
CMTM3	128	124	119	119	100	117
CMTM4	4	4	2	0	4	8
CMTM5	0	0	0	0	0	0
CMTM6	1180	1234	1182	550	579	576
CMTM7	140	181	181	125	97	94
CMTM8	59	52	58	136	124	112
CMYA5	5	4	0	34	15	46
CNBD1	0	0	0	0	0	0
CNBP	681	684	643	992	906	994
CNDP1	1	0	0	4	4	0
CNDP2	225	243	217	119	159	121
CNEP1R1	68	68	80	63	57	24
CNFN	0	0	0	0	0	0
CNGA1	0	0	1	0	0	0
CNGA2	0	0	0	0	0	0
CNGA3	0	0	0	0	0	0
CNGA4	0	0	0	0	0	0
CNGB1	0	0	0	0	4	35
CNGB3	0	0	0	0	2	3
CNIH2	0	0	0	0	0	0
CNIH3	1	0	1	9	4	30
CNIH4	170	193	208	153	137	147
CNKSR1	0	0	0	0	0	0
CNKSR2	51	33	45	123	92	169
CNKSR3	4	7	6	40	27	66
CNN1	0	0	0	0	0	0
CNN2	233	243	299	215	259	179
CNN3	15	26	20	28	15	3
CNNM1	0	0	1	0	0	0
CNNM2	10	14	15	6	2	0
CNNM3	25	43	41	37	30	40
CNNM4	58	57	48	28	30	13
CNOT1	345	338	364	459	370	459
CNOT10	52	61	58	74	77	71
CNOT2	212	199	215	327	316	345
CNOT3	19	16	17	31	18	30
CNOT4	116	100	122	175	151	169
CNOT6	197	173	201	163	177	173
CNOT6L	1055	1082	1168	1388	1521	1370
CNOT7	346	339	329	419	481	450
CNOT8	213	202	190	264	257	254
CNP	88	81	89	58	75	51
CNPPD1	75	100	97	121	120	103
CNPY1	0	0	0	0	4	8
CNPY2	84	117	107	123	108	139
CNPY3	54	52	37	40	41	30
CNPY4	59	78	63	63	84	8
CNR1	1	1	0	6	7	8
CNR2	30	19	23	16	24	13
CNRIP1	4	1	1	0	0	0
CNST	85	52	65	153	120	143
CNTD1	0	0	0	0	0	0
CNTD2	0	0	0	13	4	19
CNTF	0	0	0	0	0	0
CNTFR	0	0	0	0	0	3
CNTLN	98	68	94	25	4	30
CNTN1	0	0	3	0	0	0
CNTN2	0	0	1	0	0	3
CNTN3	0	2	0	0	0	0
CNTN4	0	0	0	0	0	0
CNTN5	0	6	2	0	0	8
CNTN6	0	2	0	0	0	8
CNTNAP1	0	2	0	0	0	0

CNTNAP2	7	9	9	19	7	35
CNTNAP3	0	0	0	0	0	0
CNTNAP3B	0	0	0	0	0	0
CNTNAP4	0	0	1	0	0	0
CNTNAP5	0	0	0	6	9	8
CNTRL	534	499	540	573	443	415
CNTR0B	2	9	9	0	4	8
COA5	124	143	132	155	168	139
COASY	34	37	31	19	43	51
COBL	4	0	6	13	38	61
COBLL1	58	42	61	58	60	51
COCH	1	4	1	0	2	0
COG1	44	52	37	66	77	35
COG2	67	98	71	112	92	151
COG3	129	139	133	190	168	196
COG4	69	61	97	203	159	169
COG5	74	91	94	84	100	103
COG6	128	137	90	74	60	30
COG7	13	22	26	25	15	40
COG8	30	47	35	82	87	61
COIL	148	124	138	163	183	158
COL10A1	0	0	0	0	0	0
COL11A1	7	0	2	0	0	13
COL11A2	1	0	0	25	12	61
COL12A1	0	0	1	1	0	19
COL13A1	0	0	0	0	0	0
COL14A1	1	2	0	0	0	8
COL15A1	1	0	0	0	0	3
COL16A1	0	0	0	1	2	13
COL17A1	0	0	0	1	0	0
COL18A1	17	17	22	74	62	89
COL18A1-AS1	0	0	0	0	0	0
COL19A1	21	22	22	123	117	199
COL1A1	0	0	0	0	9	8
COL1A2	1	4	1	19	12	30
COL20A1	0	0	0	13	2	19
COL21A1	2	1	1	13	4	13
COL22A1	0	0	0	0	0	0
COL23A1	0	2	2	0	0	0
COL24A1	6	5	6	6	7	8
COL25A1	0	0	0	6	0	8
COL27A1	2	2	1	19	30	13
COL28A1	0	0	0	0	0	0
COL2A1	0	0	0	6	0	40
COL3A1	0	0	0	0	0	0
COL4A1	2	5	1	25	15	24
COL4A2	4	0	0	6	0	0
COL4A3	12	8	13	43	38	56
COL4A3BP	457	432	457	313	276	325
COL4A4	4	4	11	0	0	0
COL4A5	0	1	0	1	0	0
COL4A6	0	0	0	0	0	3
COL5A1	0	4	0	1	2	8
COL5A2	1	4	0	13	15	30
COL5A3	0	0	7	1	0	8
COL6A1	0	2	1	4	0	0
COL6A2	1	1	6	0	0	0
COL6A3	1	2	2	4	2	8
COL6A4P1	0	0	0	0	0	0
COL6A4P2	4	1	6	22	7	46
COL6A5	0	0	0	0	0	0
COL6A6	0	0	0	0	0	0
COL7A1	1	0	0	31	12	24
COL8A1	0	0	0	1	0	0
COL8A2	15	13	8	0	0	0
COL9A1	0	0	0	9	0	3
COL9A2	0	0	0	0	0	8
COL9A3	32	31	41	56	57	71
COL1EC10	0	0	0	4	4	3
COL1EC11	0	0	0	0	2	8
COL1EC12	20	19	14	0	0	0
COLQ	4	4	7	16	4	8
COMMD1	52	48	58	31	54	19
COMMD10	128	113	97	19	30	13
COMMD2	231	208	222	155	187	173
COMMD3	191	187	175	165	142	154
COMMD3-BMI1	0	0	0	0	0	0
COMMD4	36	33	25	22	33	19
COMMD5	74	70	68	31	43	0
COMMD6	390	384	348	701	691	717
COMMD7	151	126	107	84	103	89
COMMD8	180	181	163	72	65	46
COMMD9	61	39	40	19	12	35
COMP	0	0	0	0	0	0
COMT	186	213	199	74	87	56
COMTD1	5	7	12	0	0	0
COPA	314	317	324	339	332	348
COPB1	548	518	481	371	395	332
COPB2	426	375	313	391	297	432
COPE	103	107	112	84	92	75
COPG1	69	84	77	66	57	46
COPG2	17	6	17	6	4	0
COPS2	245	227	235	311	263	337
COPS3	95	115	75	100	84	71
COPS4	45	52	58	31	60	30
COPS5	111	120	124	139	140	162
COPS6	67	79	66	79	60	56
COPS7A	139	171	147	93	79	51
COPS7B	34	33	51	56	65	66
COPS8	130	158	142	175	187	98
COPZ1	195	202	198	206	227	241
COPZ2	0	0	1	4	2	8
COQ10A	18	23	9	6	7	3

COQ10B	171	146	130	136	133	112
COQ2	63	43	45	4	4	3
COQ3	21	15	15	79	46	117
COQ4	20	37	28	58	57	51
COQ5	72	92	67	108	97	117
COQ6	15	23	16	37	30	19
COQ7	36	25	31	28	43	19
COQ9	28	25	31	13	38	0
CORIN	1	2	0	4	2	0
CORO1A	25	33	31	66	52	8
CORO1B	72	86	120	48	30	13
CORO1C	308	399	371	60	75	40
CORO2A	38	46	53	69	57	51
CORO2B	0	0	0	0	0	0
CORO6	0	0	0	0	2	0
CORO7	45	62	67	48	30	46
CORO7-PAM16	0	0	0	0	0	0
CORT	0	0	0	0	0	0
COTL1	1540	1604	1411	541	640	550
COX10	30	29	20	40	24	24
COX11	63	63	66	76	77	56
COX14	187	208	226	219	274	237
COX15	66	63	57	95	142	112
COX16	48	42	34	48	75	66
COX17	101	95	104	66	87	117
COX18	124	111	108	193	147	199
COX19	205	215	167	217	206	213
COX20	192	163	158	63	62	24
COX411	585	604	562	1138	1310	1333
COX412	0	0	0	0	0	0
COX5A	337	300	255	195	214	151
COX5B	273	303	251	132	183	147
COX6A1	103	124	85	123	129	94
COX6A2	0	0	0	0	0	0
COX6B1	235	266	222	219	304	203
COX6B2	0	0	0	0	0	0
COX6C	812	820	700	824	946	691
COX7A1	0	0	0	0	0	0
COX7A2	403	388	361	383	436	369
COX7A2L	224	261	195	333	354	348
COX7B	356	331	278	248	259	241
COX7B2	0	1	0	0	0	0
COX7C	1034	1039	945	1688	1725	1733
COX8A	237	255	252	165	193	185
COX8C	0	0	0	4	2	8
CP	1	8	6	19	24	30
CPA1	0	0	0	0	0	0
CPA2	0	0	0	0	0	0
CPA3	35	40	51	19	24	19
CPA4	0	0	0	0	0	0
CPA5	0	0	0	0	0	0
CPA6	1	0	0	0	0	0
CPAMD8	0	2	0	0	0	0
CPB1	1	0	0	4	12	19
CPB2	0	0	0	0	4	0
CPD	203	194	194	199	199	192
CPE	0	0	0	0	0	0
CPEB1	4	0	0	4	7	19
CPEB2	50	56	40	69	35	71
CPEB3	63	55	63	40	33	13
CPEB4	249	214	243	117	106	165
CPLX1	0	0	2	4	2	0
CPLX2	0	0	0	0	0	0
CPLX3	0	0	0	0	0	0
CPLX4	0	0	0	6	0	13
CPM	192	202	162	22	27	24
CPN1	0	0	0	0	0	0
CPN2	0	0	0	0	0	0
CPNE1	128	151	159	245	223	251
CPNE2	18	21	23	40	18	51
CPNE3	394	359	334	389	395	305
CPNE4	0	0	0	0	0	0
CPNE5	22	24	22	93	69	98
CPNE6	0	0	0	0	0	0
CPNE7	4	2	7	6	15	19
CPNE8	58	71	52	22	9	30
CPNE9	0	0	0	0	0	0
CPO	0	0	0	0	2	3
CPOX	51	58	50	69	103	66
CPPED1	144	137	120	0	18	0
CPQ	118	121	119	40	35	13
CPS1	1	0	0	0	0	0
CP5F1	30	30	25	31	35	40
CP5F2	291	275	218	290	272	365
CP5F3	74	77	79	90	84	94
CP5F4	35	46	54	37	38	8
CP5F4L	0	0	0	0	0	0
CP5F6	266	286	299	302	265	352
CP5F7	212	227	225	347	367	267
CPT1A	331	359	358	248	212	237
CPT1B	5	11	8	6	24	3
CPT1C	0	0	0	0	0	0
CPT2	67	52	88	37	38	35
CPVL	356	324	291	4	2	19
CPXCR1	0	0	0	0	0	0
CPXM1	0	0	0	0	0	0
CPXM2	0	1	0	0	0	19
CPZ	0	0	0	0	0	0
CR1	48	34	34	40	15	8
CR1L	2	2	3	0	0	0
CR2	29	28	21	45	38	40
CRABP1	0	0	0	0	0	0
CRABP2	1	2	1	6	4	19

CRADD	14	15	22	16	12	19
CRAT	5	15	25	0	2	0
CRB1	0	0	0	6	2	3
CRB2	0	0	0	0	0	0
CRB3	0	0	0	0	2	0
CRBN	372	344	393	349	405	291
CRCP	94	101	83	129	133	151
CRCT1	0	0	0	0	0	0
CREB1	529	498	506	695	613	644
CREB3	69	62	67	37	82	30
CREB3L1	0	0	0	1	0	3
CREB3L2	162	186	186	119	115	124
CREB3L3	0	0	0	0	0	0
CREB3L4	34	38	50	90	62	61
CREB5	119	122	122	6	21	51
CREBBP	490	540	610	606	610	602
CREBL2	547	557	532	241	288	216
CREBZF	348	406	350	596	564	486
CREG1	361	355	383	28	41	0
CREG2	0	6	3	4	18	30
CRELD1	10	12	13	37	18	8
CRELD2	97	122	124	60	54	46
CREM	218	206	160	566	567	684
CRH	0	0	0	1	0	0
CRHBP	0	1	0	0	0	0
CRHR1	0	0	0	0	0	0
CRHR2	0	0	0	0	0	0
CRIM1	240	252	257	72	92	56
CRIP1	14	9	13	16	12	3
CRIP2	0	4	5	0	0	0
CRIP3	0	1	0	0	0	0
CRIPT	45	42	26	37	21	51
CRISP1	1	5	0	9	7	13
CRISP2	0	0	0	0	0	0
CRISP3	6	2	5	0	7	3
CRISPLD1	0	0	0	0	0	0
CRISPLD2	20	22	18	4	4	8
CRK	117	83	122	72	77	84
CRKL	206	198	187	254	305	230
CRLF1	0	0	0	0	0	0
CRLF2	1	1	0	0	0	0
CRLF3	198	172	204	300	225	288
CRLS1	130	139	121	155	159	176
CRMP1	0	0	0	0	0	0
CRNDE	2	1	0	0	0	0
CRNKL1	111	95	107	129	111	179
CRNN	0	0	0	0	0	0
CROCC	40	35	44	37	41	3
CROCCP2	103	100	100	121	117	84
CROCCP3	11	11	8	1	0	0
CROT	59	30	37	22	35	24
CRP	0	0	0	0	2	0
CRTAC1	0	0	0	0	0	0
CRTAM	237	194	203	325	378	297
CRTAP	129	118	121	139	131	128
CRTC1	10	11	13	4	9	3
CRTC2	39	37	50	98	52	89
CRTC3	176	162	186	187	234	245
CRX	0	0	2	1	4	13
CRY1	114	100	88	136	106	136
CRY2	42	54	67	66	67	51
CRYAA	0	0	0	0	0	0
CRYAB	0	0	0	0	0	0
CRYBA1	0	0	0	0	0	0
CRYBA2	0	0	0	0	0	0
CRYBA4	0	0	0	0	0	0
CRYBB1	0	0	0	0	0	0
CRYBB2	0	0	0	0	0	0
CRYBB2P1	12	23	28	40	24	40
CRYBB3	0	0	0	0	0	0
CRYGA	2	0	0	0	0	13
CRYGB	0	0	0	0	0	0
CRYGC	0	0	0	0	0	0
CRYGD	0	0	0	0	0	0
CRYGN	0	0	0	0	0	0
CRYGS	0	6	1	1	0	0
CRYL1	64	74	53	66	49	46
CRYM	0	0	0	0	0	0
CRYM-AS1	1	0	0	0	0	0
CRYZ	128	92	124	103	106	79
CRYZL1	85	91	80	129	100	117
CS	108	118	136	119	97	103
CSAD	52	68	60	72	57	117
CSAG1	0	0	0	0	0	0
CSAG2	0	0	0	0	0	0
CSAG3	0	0	0	0	0	0
CSDC2	0	0	0	0	0	0
CSDE1	2187	2173	2150	2372	2303	2352
CSE1L	80	95	78	147	155	107
CSF1	30	17	34	22	35	24
CSF1R	212	241	275	0	2	0
CSF2	0	0	0	1	0	3
CSF2RA	58	55	66	9	4	24
CSF2RB	329	273	246	84	131	107
CSF3	0	0	0	0	0	0
CSF3R	60	45	48	9	9	13
CSGALNACT1	109	105	104	327	276	352
CSGALNACT2	323	331	320	266	309	285
CSH1	0	0	0	0	0	0
CSH2	0	0	0	0	0	0
CSHL1	0	0	0	0	0	0
CSK	110	137	121	100	103	103
CSMD1	0	0	1	1	7	19

CSMD2	6	7	5	40	24	46
CSMD3	11	5	6	19	18	51
CSN1S1	1	0	0	0	0	3
CSN1S2AP	0	0	0	0	0	3
CSN2	0	0	0	0	0	0
CSN3	0	0	0	0	0	0
CSNK1A1	450	377	398	573	528	641
CSNK1A1L	5	8	0	19	4	13
CSNK1A1P1	2	4	3	4	7	3
CSNK1D	197	205	218	294	295	249
CSNK1E	59	80	96	112	62	79
CSNK1G1	107	98	75	129	115	128
CSNK1G2	163	199	210	397	350	369
CSNK1G2-AS1	0	0	0	0	0	0
CSNK1G3	264	230	226	400	328	450
CSNK2A1	300	333	345	418	380	411
CSNK2A2	364	369	375	409	440	393
CSNK2B	252	270	355	331	395	348
CSPG4	0	0	0	0	0	0
CSPG4P1Y	0	0	0	0	0	0
CSPG5	0	0	0	1	4	19
CSPP1	183	142	133	224	191	288
CSRP1	209	177	133	87	129	89
CSRNP2	18	21	21	13	12	0
CSRNP3	2	0	5	9	7	13
CSRP1	14	33	20	13	21	8
CSRP2	0	1	0	1	2	0
CSRP3	0	0	0	1	0	3
CST1	0	0	0	0	0	0
CST11	0	0	0	0	0	0
CST2	0	0	0	0	0	0
CST3	129	154	117	0	15	8
CST4	0	0	0	0	0	0
CST5	0	0	0	0	0	0
CST6	5	12	5	0	0	0
CST7	152	178	195	145	208	19
CST8	0	0	0	0	0	0
CST9	0	0	0	0	0	0
CST9L	0	0	0	0	0	0
CSTA	216	178	171	6	7	0
CSTB	829	923	851	239	321	143
CSTF1	104	105	84	127	162	132
CSTF2	40	33	29	45	54	51
CSTF2T	173	115	141	211	197	227
CSTF3	126	101	128	239	234	355
CSTL1	0	0	0	0	0	0
CT45A1	0	0	0	0	0	0
CT45A2	0	0	0	0	0	0
CT45A3	0	0	0	0	0	0
CT45A5	0	0	0	0	0	0
CT45A6	0	0	0	0	0	0
CT47A1	0	0	0	0	0	0
CT47A10	0	0	0	0	0	0
CT47A11	0	0	0	0	0	0
CT47A12	0	0	0	0	0	0
CT47A2	0	0	0	0	0	0
CT47A3	0	0	0	0	0	0
CT47A4	0	0	0	0	0	0
CT47A5	0	0	0	0	0	0
CT47A6	0	0	0	0	0	0
CT47A7	0	0	0	0	0	0
CT47A8	0	0	0	0	0	0
CT47A9	0	0	0	0	0	0
CT47B1	0	0	0	0	0	0
CT62	0	0	0	0	0	0
CTAG1A	0	0	0	0	0	0
CTAG1B	0	0	0	0	0	0
CTAG2	0	0	0	0	2	0
CTAGE1	4	1	0	4	2	0
CTAGE10P	0	0	0	0	0	0
CTAGE11P	1	0	3	0	0	0
CTAGE4	0	0	0	0	0	0
CTAGE7P	5	1	3	1	2	0
CTAGE9	0	0	0	0	0	0
CTBP1	174	165	197	219	158	173
CTBP2	157	161	189	110	77	75
CTB5	97	66	90	82	92	84
CTC1	46	60	74	72	77	46
CTCF	448	456	515	509	561	560
CTCFL	0	2	1	4	9	19
CTDNEP1	302	361	333	354	413	385
CTDP1	59	81	65	103	82	98
CTDSP1	225	254	226	187	189	154
CTDSP2	361	328	346	387	385	405
CTDSPL	0	0	0	0	2	8
CTDSPL2	228	199	221	283	311	332
CTF1	0	0	0	0	0	0
CTGF	2	0	2	0	0	0
CTH	5	5	3	9	2	0
CTHRC1	0	0	0	0	0	0
CTIF	6	2	2	0	0	0
CTLA4	25	24	25	31	38	66
CTNNA1	219	178	198	43	41	13
CTNNA2	0	2	0	1	2	8
CTNNA3	0	0	0	6	9	3
CTNNAL1	15	9	15	22	15	40
CTNNB1	532	601	663	430	466	359
CTNNBIP1	69	98	84	22	38	24
CTNNBL1	134	178	176	175	203	203
CTNND1	144	122	129	103	54	103
CTNND2	12	12	23	16	12	30
CTNS	22	34	31	0	9	0
CTPS2	5	6	6	1	0	3

CTR9	480	435	426	456	466	499
CTRB1	0	0	0	0	0	0
CTRB2	0	0	0	0	0	0
CTRC	0	0	0	51	12	71
CTRL	0	0	2	0	0	0
CTSA	162	193	181	43	43	24
CTSB	1942	1921	1890	151	212	179
CTSC	710	692	639	165	158	143
CTSD	1216	1455	1352	199	279	216
CTSE	0	0	0	0	0	0
CTSF	45	40	40	40	30	30
CTSG	0	0	0	0	0	0
CTSH	506	604	607	63	111	56
CTSK	23	23	32	6	0	0
CTSO	231	213	176	139	142	121
CTSS	5319	5015	5015	495	515	415
CTSW	5	9	18	22	30	13
CTSZ	355	450	554	19	24	24
CTTN	4	4	2	6	7	30
CTTNBP2	5	1	2	0	0	0
CTTNBP2NL	55	73	45	22	15	24
CTU1	2	14	7	1	4	3
CTU2	10	15	8	0	2	3
CTXN1	0	0	0	0	0	0
CTXN2	0	0	0	0	0	0
CTXN3	0	0	0	0	0	0
CUBN	12	6	5	16	2	46
CUEDC1	24	12	21	0	0	0
CUEDC2	21	31	24	25	38	3
CUL1	274	236	254	239	230	224
CUL2	160	114	115	171	147	158
CUL3	268	231	208	304	246	282
CUL4A	369	411	430	391	357	312
CUL4B	289	237	252	323	311	352
CUL5	462	415	459	412	443	400
CUL7	6	15	6	1	2	3
CUL9	29	35	63	60	46	79
CUTA	128	146	115	145	174	139
CUTC	60	66	47	53	87	75
CUX1	355	328	356	283	210	220
CUX2	0	5	0	19	27	0
CUZD1	0	4	1	6	12	0
CWC15	391	366	432	466	436	550
CWC22	361	364	340	554	520	672
CWC25	166	193	178	234	219	196
CWC27	309	248	270	366	319	388
CWF19L1	54	57	85	95	77	71
CWF19L2	433	439	577	587	478	569
CWH43	0	0	0	0	0	0
CX3CL1	0	0	0	0	0	0
CX3CR1	203	205	178	250	309	227
CXADR	4	9	8	22	15	56
CXADRP2	0	0	0	0	0	0
CXADRP3	0	0	0	0	0	0
CXCL1	15	37	48	76	131	24
CXCL10	694	786	564	43	90	94
CXCL11	135	125	80	13	12	46
CXCL12	0	0	0	0	0	0
CXCL13	0	0	3	16	9	3
CXCL14	0	0	0	0	0	0
CXCL16	117	144	151	31	43	35
CXCL17	0	0	0	0	0	0
CXCL2	123	88	100	31	97	13
CXCL3	78	65	78	84	122	107
CXCL5	9	15	59	112	405	121
CXCL6	0	0	0	0	0	0
CXCL9	1318	1388	1171	93	195	185
CXCR1	0	0	0	0	0	3
CXCR2	12	17	18	9	21	30
CXCR2P1	62	46	37	9	4	19
CXCR3	65	62	55	48	57	66
CXCR4	1299	1399	1271	2012	2224	2012
CXCR5	47	54	44	132	164	176
CXCR6	19	11	21	82	100	61
CXorf21	117	78	75	106	43	89
CXorf36	0	0	0	0	0	0
CXorf38	183	172	135	145	183	188
CXorf40A	2	2	0	0	2	3
CXorf40B	5	1	2	1	0	0
CXorf49	0	0	0	0	0	0
CXorf49B	0	0	0	0	0	0
CXorf51A	0	0	0	0	0	0
CXorf51B	0	0	0	0	0	0
CXorf56	65	98	78	76	84	24
CXorf57	21	29	32	63	57	24
CXorf58	0	2	0	1	7	19
CXorf65	0	0	0	0	0	3
CXorf66	0	0	0	0	0	0
CXXC1	84	98	98	132	142	151
CXXC1P1	0	0	0	0	0	0
CXXC4	12	20	15	98	90	192
CXXC5	279	252	249	213	179	237
CYB561	63	55	79	87	100	35
CYB561D1	29	47	36	22	24	3
CYB561D2	39	30	34	5	4	0
CYB5A	63	62	50	31	46	19
CYB5B	134	135	116	177	181	173
CYB5D1	0	0	0	0	0	0
CYB5D2	15	19	18	28	43	61
CYB5R1	124	82	90	60	82	24
CYB5R2	2	1	0	0	0	0
CYB5R3	208	229	199	114	117	66
CYB5R4	269	252	299	143	142	139

CYB5RL	14	16	14	9	12	13
CYBA	67	78	84	19	15	8
CYBB	4407	4196	4841	221	297	254
CYBRD1	14	26	23	0	0	0
CYC1	133	121	91	69	65	30
CYCS	297	264	285	209	230	233
CYCSP52	0	0	0	0	0	0
CYFIP1	165	157	162	13	15	0
CYFIP2	332	322	404	752	763	833
CYGB	0	0	0	0	0	3
CYHR1	38	58	51	53	46	66
CYLC1	0	0	0	0	0	0
CYLC2	2	0	6	4	7	13
CYLD	1256	1174	1250	1263	1246	1234
CYMP	0	0	0	0	0	0
CYP11A1	0	0	0	0	0	0
CYP11B1	0	0	0	0	0	0
CYP11B2	0	0	0	0	0	0
CYP17A1	0	0	0	0	0	0
CYP19A1	2	5	2	25	27	0
CYP1A1	0	0	0	25	12	61
CYP1A2	0	0	0	0	0	0
CYP1B1	7765	7765	7765	209	678	233
CYP1B1-AS1	1	2	1	6	7	24
CYP20A1	113	93	100	87	57	24
CYP21A1P	0	0	0	0	0	0
CYP21A2	0	0	0	0	0	0
CYP24A1	0	0	0	0	0	0
CYP26A1	0	0	0	0	0	0
CYP26B1	0	0	0	1	0	0
CYP26C1	0	0	0	0	0	0
CYP27A1	148	163	198	0	9	0
CYP27B1	2	2	1	0	2	3
CYP27C1	0	1	1	0	9	8
CYP2A13	0	0	0	0	0	0
CYP2A6	0	0	0	0	0	0
CYP2A7	0	0	0	0	0	0
CYP2B6	0	0	0	0	0	8
CYP2C18	0	0	0	0	0	0
CYP2C19	0	0	0	0	0	0
CYP2C8	0	0	0	0	0	0
CYP2C9	0	0	0	0	0	0
CYP2D6	0	0	0	0	0	0
CYP2E1	2	0	0	1	0	13
CYP2F1	0	0	0	0	0	0
CYP2G1P	0	0	0	0	0	3
CYP2J2	0	0	0	0	0	0
CYP2R1	20	12	21	4	21	19
CYP2S1	14	13	12	0	0	0
CYP2U1	29	35	32	40	15	51
CYP2W1	0	0	0	0	0	0
CYP39A1	0	0	1	0	0	0
CYP3A4	0	0	0	0	2	0
CYP3A43	0	0	0	0	0	0
CYP3A5	2	4	5	13	4	35
CYP3A7	0	0	0	0	0	3
CYP46A1	0	5	1	6	15	56
CYP4A11	0	0	0	0	0	0
CYP4A22	0	0	0	0	0	0
CYP4B1	0	0	0	0	0	0
CYP4F11	0	0	0	0	0	0
CYP4F12	0	0	0	0	0	0
CYP4F2	0	0	0	0	0	0
CYP4F22	0	0	0	4	0	0
CYP4F24P	0	0	0	0	0	0
CYP4F3	2	1	0	6	4	0
CYP4F30P	0	0	0	0	0	0
CYP4F35P	0	0	0	0	0	0
CYP4F8	0	0	1	1	0	0
CYP4V2	64	68	57	48	38	30
CYP4X1	1	0	0	0	0	0
CYP4Z1	0	0	0	0	0	3
CYP4Z2P	0	0	0	0	0	0
CYP51A1	1	7	5	0	0	0
CYP7A1	0	0	0	0	0	0
CYP7B1	0	2	0	0	0	0
CYP8B1	0	0	0	0	0	0
CYR61	0	0	0	0	0	0
CYS1	0	0	0	0	0	0
CYSLTR1	291	279	264	285	259	230
CYSLTR2	34	17	16	9	7	19
CYSTM1	111	74	85	40	60	30
CYTH1	789	807	732	1436	1340	1421
CYTH2	41	40	24	9	33	35
CYTH3	56	79	63	87	113	89
CYTH4	113	148	138	125	168	79
CYTIP	549	511	554	937	1042	921
CYTL1	4	1	0	0	0	0
CYYR1	1	0	0	0	0	0
D2HGDH	42	57	47	66	52	56
DAAM1	224	216	219	215	261	251
DAAM2	0	0	0	0	0	0
DAB1	1	0	0	0	0	8
DAB2	296	308	264	53	77	89
DAB2IP	0	0	0	0	0	0
DACH1	5	16	7	1	2	3
DACH2	2	0	0	0	2	0
DACT1	5	4	6	1	0	3
DACT2	0	0	0	0	0	0
DACT3	4	2	1	13	0	3
DAD1	117	132	98	129	100	112
DAG1	25	11	16	4	4	0
DAGLA	7	16	28	0	0	0

DAGLB	28	37	28	13	27	13
DALRD3	23	24	34	43	43	40
DANCR	48	55	37	123	95	132
DAND5	0	0	0	1	0	0
DAO	0	0	0	0	0	0
DAOA	1	0	0	0	0	0
DAOA-AS1	0	0	0	0	0	0
DAP	143	114	119	66	62	35
DAP3	252	241	228	377	283	305
DAPK1	286	334	279	13	7	8
DAPK2	12	6	14	43	49	19
DAPK3	9	17	20	6	2	0
DAPL1	0	0	0	0	0	0
DAPP1	518	503	481	276	330	301
DARS	609	557	522	585	743	526
DARS2	34	39	32	16	38	35
DAXX	110	120	116	179	162	203
DAZ1	0	0	0	0	0	0
DAZ2	0	0	0	0	0	0
DAZ3	0	0	0	0	0	0
DAZ4	0	0	0	0	0	0
DAZAP1	236	269	239	638	569	600
DAZAP2	1564	1592	1469	1246	1301	1073
DAZL	0	0	0	0	0	0
DBF4	100	81	97	87	87	66
DBF4B	0	0	2	0	0	0
DBH	0	0	0	0	0	0
DBI	673	736	612	309	340	251
DBIL5P	0	0	0	0	0	0
DBIL5P2	0	1	3	0	0	0
DBN1	7	8	3	9	4	13
DBNDD1	0	0	0	0	0	0
DBNDD2	0	0	0	0	0	0
DBNL	185	223	173	239	214	312
DBP	18	17	21	22	15	24
DBR1	188	182	154	117	164	98
DBT	65	70	44	114	106	51
DBX1	0	0	0	0	0	0
DBX2	0	0	0	0	0	0
DCAF10	172	139	155	257	174	267
DCAF11	191	214	163	197	223	132
DCAF12	208	206	210	211	170	251
DCAF12L1	0	0	0	0	0	0
DCAF12L2	0	0	0	0	0	0
DCAF13	106	104	98	74	72	107
DCAF15	18	2	13	6	7	0
DCAF16	188	181	165	252	279	291
DCAF17	51	58	59	100	106	71
DCAF4	17	16	9	25	30	13
DCAF4L1	12	5	12	141	57	179
DCAF4L2	0	0	0	4	2	3
DCAF5	253	272	243	363	323	294
DCAF6	107	91	93	165	149	154
DCAF7	614	638	570	787	831	734
DCAF8	97	135	123	201	223	169
DCAF8L1	0	0	0	0	0	0
DCAF8L2	0	0	0	0	0	0
DCAKD	19	14	24	6	33	0
DCBLD1	50	58	46	90	57	107
DCBLD2	9	15	8	6	2	0
DCC	4	0	5	4	7	46
DCD	0	0	0	1	0	0
DCDC1	5	1	7	13	18	0
DCDC2	4	0	0	0	0	3
DCDC2B	0	0	0	0	0	0
DCHS1	0	1	1	1	0	0
DCHS2	1	0	0	4	2	13
DCK	184	150	148	221	195	224
DCLK1	0	0	0	1	0	3
DCLK2	1	0	1	0	0	0
DCLK3	0	0	0	28	15	94
DCLRE1A	14	20	18	16	24	3
DCLRE1B	41	41	32	19	2	3
DCLRE1C	75	74	61	103	95	121
DCN	2	0	0	0	4	35
DCP1A	108	125	101	201	185	224
DCP1B	47	49	54	69	69	89
DCP2	268	208	263	263	193	294
DCPS	26	32	44	6	30	13
DCST1	0	1	0	0	0	0
DCST2	0	0	0	0	0	0
DCT	6	0	0	28	0	8
DCTD	75	74	88	90	67	71
DCTN1	132	105	117	58	60	46
DCTN2	113	142	145	151	142	173
DCTN3	42	46	28	31	43	0
DCTN4	83	95	71	76	77	71
DCTN5	58	61	61	165	147	182
DCTN6	108	62	69	98	100	147
DCTPP1	35	21	18	34	24	8
DCUN1D1	117	135	137	90	90	103
DCUN1D2	9	11	20	1	2	3
DCUN1D3	15	29	18	6	27	8
DCUN1D4	76	47	50	60	60	79
DCUN1D5	30	31	32	28	38	24
DCX	4	9	9	16	21	30
DCXR	38	47	37	6	9	0
DDA1	84	62	96	79	57	79
DDAH1	0	0	0	0	0	0
DDAH2	116	133	94	93	97	89
DDB1	429	459	490	444	452	432
DDB2	63	68	84	132	100	128
DDC	0	0	0	0	0	3

DDHD1	317	281	371	243	252	267
DDHD2	132	129	109	90	108	103
DDI1	0	0	0	0	0	0
DDI2	134	124	133	213	170	199
DDIT3	84	87	103	134	131	128
DDIT4	101	128	126	117	197	136
DDIT4L	1	0	0	0	0	0
DDN	0	0	0	0	4	13
DDO	4	6	8	0	0	0
DDOST	123	163	140	215	268	213
DDR1	22	23	35	25	18	0
DDR2	4	5	3	43	35	51
DDRGK1	55	55	74	72	57	61
DDT	18	24	25	6	12	0
DDTL	0	0	0	0	0	0
DDX1	309	285	257	365	314	372
DDX10	117	105	122	180	103	139
DDX11	0	4	5	1	2	0
DDX11L1	0	0	0	0	0	0
DDX11L10	0	0	0	0	0	0
DDX11L2	1	0	0	0	0	0
DDX11L9	0	0	0	0	0	0
DDX12P	0	0	0	0	0	0
DDX17	1921	1871	1912	1990	1927	1921
DDX18	754	717	674	898	949	894
DDX19A	94	100	106	129	149	89
DDX19B	42	52	57	4	49	40
DDX20	94	76	69	117	129	220
DDX21	1276	1182	1258	1370	1246	1620
DDX23	202	153	175	340	302	317
DDX24	605	601	639	908	906	1011
DDX25	0	0	0	0	0	13
DDX27	440	438	438	481	436	348
DDX28	49	49	43	110	106	71
DDX31	46	35	28	95	77	84
DDX39A	89	94	96	114	131	124
DDX39B	19	11	35	53	38	66
DDX3X	869	841	840	692	794	753
DDX3Y	632	569	616	695	755	573
DDX4	0	0	0	0	2	0
DDX41	46	38	53	34	41	24
DDX42	224	213	215	400	330	393
DDX43	20	19	15	9	12	3
DDX46	911	763	824	933	794	882
DDX47	6	11	11	1	7	0
DDX49	45	56	57	51	43	51
DDX5	2274	2138	2187	1579	1682	1463
DDX50	324	301	275	385	362	332
DDX51	22	23	31	31	38	24
DDX52	204	208	181	248	259	176
DDX53	0	0	0	0	0	0
DDX54	123	147	123	132	149	132
DDX55	99	107	132	226	236	224
DDX56	34	35	39	76	77	94
DDX58	119	109	117	90	100	103
DDX59	108	113	116	87	75	98
DDX6	952	1023	1047	1551	1630	1647
DDX60	291	260	302	169	219	192
DDX60L	253	252	273	180	159	182
DEAF1	48	42	47	40	79	35
01-dic	1	1	1	4	9	13
	157	150	135	147	129	158
DECR1	0	2	5	0	0	3
DEDD	56	81	72	79	62	51
DEDD2	78	92	59	43	62	56
DEF6	58	77	72	125	75	112
DEF8	36	31	32	9	4	19
DEFA1	0	0	0	0	0	0
DEFA10P	0	0	0	0	0	0
DEFA1B	0	0	0	0	0	0
DEFA3	4	0	8	25	12	19
DEFA4	0	1	3	6	9	3
DEFA5	0	0	0	0	0	0
DEFA6	0	0	0	0	0	0
DEFB1	0	0	0	0	0	0
DEFB103A	0	0	0	0	0	0
DEFB103B	0	0	0	0	0	0
DEFB104A	0	0	0	0	0	0
DEFB104B	0	0	0	0	0	0
DEFB105A	0	0	0	0	0	0
DEFB105B	0	0	0	0	0	0
DEFB106A	0	0	0	0	0	0
DEFB106B	0	0	0	0	0	0
DEFB107A	0	0	0	0	0	0
DEFB107B	0	0	0	0	0	0
DEFB108B	0	0	0	0	0	0
DEFB110	0	0	0	0	0	0
DEFB112	0	0	0	0	0	0
DEFB113	0	0	1	0	2	3
DEFB114	0	0	0	0	0	0
DEFB115	0	0	0	0	0	0
DEFB116	0	0	0	0	0	0
DEFB118	0	1	0	6	0	0
DEFB119	0	0	0	0	0	0
DEFB121	0	0	0	0	0	0
DEFB122	0	0	0	0	0	0
DEFB123	0	0	0	0	0	0
DEFB124	0	0	0	0	0	3
DEFB125	0	0	0	0	0	0
DEFB126	0	0	0	0	0	0
DEFB127	1	0	0	0	0	0
DEFB128	0	0	0	0	0	0
DEFB129	0	0	0	0	0	0

DEFB132	0	0	0	0	0	0
DEFB133	0	0	0	0	0	0
DEFB134	0	0	0	0	0	0
DEFB135	0	0	0	0	0	0
DEFB136	0	0	0	0	0	0
DEFB4A	0	0	0	0	0	0
DEFB4B	0	0	0	0	0	0
DEFT1P	0	0	0	0	0	0
DEFT1P2	0	0	0	0	0	0
DEGS1	175	208	176	114	153	89
DEGS2	0	0	1	1	0	0
DEK	1504	1331	1368	1302	1278	1158
DENND1A	56	57	51	45	21	51
DENND1B	189	144	160	167	151	210
DENND1C	26	40	40	45	38	30
DENND2A	0	0	0	4	2	0
DENND2C	6	4	0	1	2	24
DENND2D	123	111	117	110	164	89
DENND3	60	52	53	45	49	40
DENND4A	206	204	207	283	307	321
DENND4B	136	169	193	211	189	107
DENND4C	70	55	76	87	120	75
DENND5A	96	86	84	132	106	143
DENND5B	24	17	17	63	38	61
DENR	246	262	235	304	348	317
DEPDC1	0	0	2	0	0	0
DEPDC1B	7	2	1	0	0	0
DEPDC4	1	0	2	4	0	8
DEPDC5	30	29	26	34	30	13
DEPDC7	12	6	2	9	0	0
DEPTOR	0	2	0	0	0	0
DERA	59	52	63	22	21	24
DERL1	288	279	246	230	268	275
DERL2	126	125	94	134	162	147
DERL3	2	0	0	0	0	0
DES	0	0	0	0	0	0
DET1	11	19	13	25	33	24
DEXI	36	58	42	63	65	35
DFFA	79	72	87	119	131	154
DFFB	74	57	66	87	79	61
DGAT1	20	14	25	4	9	0
DGAT2	2	9	8	6	7	19
DGAT2L6	0	0	0	0	0	0
DGCR10	0	0	0	0	0	0
DGCR11	7	6	5	0	0	0
DGCR2	151	157	123	123	189	158
DGCR5	1	0	0	0	0	0
DGCR6	0	0	0	0	0	0
DGCR6L	13	17	6	0	21	3
DGCR8	52	55	75	60	54	24
DGCR9	1	0	0	0	0	0
DGKA	119	117	167	211	191	173
DGKB	5	1	2	0	0	35
DGKD	302	318	385	487	452	352
DGKE	106	84	127	95	103	94
DGKG	1	12	6	4	9	19
DGKH	142	147	158	76	52	35
DGKI	2	7	2	13	15	24
DGKK	1	0	0	0	0	0
DGKQ	77	63	67	58	38	46
DGKZ	147	251	323	298	307	196
DGUOK	115	135	98	257	249	245
DHCR24	12	17	17	1	2	0
DHCR7	11	7	8	1	4	0
DHDDS	51	54	55	25	30	3
DHDH	0	0	0	6	7	8
DHFR	19	17	12	16	18	13
DHH	0	0	0	1	0	3
DHODH	7	11	11	13	12	13
DHPS	26	14	11	16	24	3
DHRS1	44	60	28	69	72	13
DHRS11	2	1	7	0	2	0
DHRS12	20	17	15	4	15	8
DHRS13	31	52	47	19	43	19
DHRS2	2	0	3	9	0	8
DHRS3	42	47	48	69	92	75
DHRS4	1	2	1	0	4	0
DHRS4L2	6	9	5	0	4	0
DHRS7	215	182	210	153	144	103
DHRS7B	26	34	30	4	4	0
DHRS7C	0	0	0	0	0	0
DHRS9	22	23	14	1	0	3
DHRSX	101	117	101	53	62	35
DHTKD1	121	121	126	95	111	56
DHX15	207	213	220	339	285	348
DHX16	98	87	90	112	108	84
DHX29	214	161	207	213	172	227
DHX30	83	70	87	103	108	139
DHX32	17	19	30	4	21	13
DHX33	84	94	69	87	92	84
DHX34	15	15	13	9	2	3
DHX35	24	20	18	25	33	3
DHX36	550	513	493	790	752	886
DHX37	7	12	14	19	4	8
DHX38	188	244	264	281	257	237
DHX40	135	177	124	167	217	179
DHX57	48	61	53	34	38	8
DHX58	32	30	30	31	15	24
DHX8	72	76	66	53	84	46
DHX9	549	505	455	643	584	641
DIABLO	1	0	0	0	0	0
DIAPH1	825	912	827	809	724	738
DIAPH2	108	133	113	72	46	24

DIAPH3	0	0	0	0	2	0
DICER1	741	699	763	360	367	415
DICER1-AS1	6	7	9	9	24	19
DIDO1	184	205	197	327	227	294
DIMT1	55	66	65	22	49	0
DIO1	0	0	0	0	0	0
DIO2	0	2	0	1	0	8
DIO3	0	0	0	0	0	0
DIO3OS	0	0	0	0	0	0
DIP2A	221	217	264	290	270	340
DIP2B	133	144	154	129	111	84
DIP2C	12	14	14	45	30	24
DIRAS1	0	0	0	0	0	0
DIRAS2	0	0	0	0	0	0
DIRAS3	0	1	0	0	0	0
DIRC1	0	0	0	0	0	0
DIRC2	68	57	63	1	4	3
DIRC3	4	0	3	9	18	19
DIS3	256	230	246	372	359	450
DIS3L	45	39	35	31	54	61
DIS3L2	41	49	40	66	72	75
DISC1	14	9	17	19	4	35
DISP1	4	0	0	0	4	0
DISP2	2	5	3	28	30	51
DIXDC1	10	13	13	16	15	8
DKC1	201	222	248	274	311	317
DKK1	0	0	0	0	0	0
DKK2	0	1	2	0	0	0
DKK3	5	5	2	13	9	30
DKK4	0	0	0	0	0	0
DKKL1	0	0	0	0	0	0
DLAT	55	70	63	34	27	46
DLC1	7	2	11	19	18	30
DLD	172	144	142	165	174	151
DLEC1	5	0	1	0	0	0
DLEU1	10	15	17	34	38	46
DLEU2	67	48	67	56	77	71
DLEU2L	22	26	25	110	54	84
DLEU7	54	58	47	6	15	30
DLG1	200	143	207	141	170	196
DLG2	9	12	17	82	60	154
DLG3	37	25	25	45	77	30
DLG4	28	60	54	51	52	51
DLG5	19	5	5	22	12	30
DLGAP1	0	0	0	0	0	3
DLGAP2	1	1	3	6	4	0
DLGAP3	0	0	0	0	0	0
DLGAP4	46	47	51	22	30	13
DLGAP5	1	2	0	0	0	0
DLK1	0	0	0	0	0	0
DLK2	0	0	0	0	0	0
DLL1	21	33	18	16	33	8
DLL3	0	0	0	0	2	0
DLL4	0	0	0	0	0	0
DLST	14	23	22	9	18	19
DLX1	0	0	0	0	0	0
DLX2	0	0	0	0	0	0
DLX3	0	0	0	0	9	0
DLX4	0	1	0	9	2	3
DLX5	0	0	0	0	0	0
DLX6	1	0	0	0	2	0
DLX6-AS1	5	1	3	9	0	8
DMAP1	24	20	14	22	35	13
DMBT1	0	0	0	0	0	0
DMBX1	0	0	0	0	0	0
DMC1	0	0	0	0	0	3
DMD	20	16	24	22	33	19
DMGDH	0	0	0	0	0	3
DMKN	0	0	0	1	0	0
DMP1	0	0	0	0	0	0
DMPK	2	0	1	4	7	3
DMRT1	0	0	0	0	0	0
DMRT2	0	0	0	0	0	0
DMRT3	0	0	0	0	0	0
DMRTA1	0	0	0	0	0	0
DMRTA2	0	0	0	1	4	19
DMRTB1	0	0	0	0	0	0
DMRTC1	0	0	0	0	0	0
DMRTC1B	0	0	0	0	0	0
DMRTC2	1	0	0	0	0	0
DMTF1	180	159	221	250	206	275
DMWD	18	15	23	28	4	13
DMXL1	259	229	255	193	197	182
DMXL2	487	470	557	40	35	51
DNA2	11	12	6	28	2	40
DNAAF1	1	5	0	6	12	0
DNAAF2	95	90	104	74	87	94
DNAH1	9	6	11	16	4	13
DNAH10	0	2	0	9	12	13
DNAH11	1	1	2	9	21	13
DNAH12	10	0	0	84	38	165
DNAH14	9	7	3	16	12	30
DNAH17	0	0	0	51	12	107
DNAH2	0	0	0	1	4	0
DNAH3	0	0	0	4	0	3
DNAH5	0	1	0	4	7	8
DNAH6	2	0	3	28	18	8
DNAH7	32	17	16	114	79	179
DNAH8	7	2	6	19	21	30
DNAH9	0	0	0	0	0	0
DNAI1	0	0	0	0	2	0
DNAI2	0	0	0	0	0	13
DNAJA1	722	643	666	412	533	636

DNAJA1P5	0	0	0	0	0	0
DNAJA2	227	247	234	335	362	447
DNAJA3	61	67	62	117	103	112
DNAJA4	74	62	67	56	27	61
DNAJB1	529	462	365	479	515	543
DNAJB11	353	418	387	187	208	196
DNAJB12	128	91	112	40	52	40
DNAJB13	0	0	0	4	2	0
DNAJB14	532	465	504	563	537	641
DNAJB2	48	45	40	66	75	24
DNAJB3	0	0	0	0	0	0
DNAJB4	45	22	44	60	52	51
DNAJB5	7	6	6	0	0	0
DNAJB6	217	201	240	485	405	573
DNAJB7	1	0	0	1	0	0
DNAJB8	0	0	0	0	0	0
DNAJB8-AS1	0	0	0	0	0	0
DNAJB9	175	150	138	171	199	117
DNAJC1	274	273	251	224	265	203
DNAJC10	381	357	387	347	314	400
DNAJC11	39	46	31	45	69	35
DNAJC12	1	0	1	0	0	0
DNAJC13	196	184	175	112	137	121
DNAJC14	47	38	36	19	21	8
DNAJC15	208	200	203	117	144	98
DNAJC16	95	118	80	95	117	98
DNAJC17	12	23	16	28	12	30
DNAJC18	14	9	22	19	18	35
DNAJC19	150	154	149	103	168	89
DNAJC2	334	316	324	319	292	279
DNAJC21	467	415	417	466	542	383
DNAJC22	0	1	0	0	0	0
DNAJC24	30	33	31	48	43	24
DNAJC25	118	82	77	119	113	66
DNAJC25-GNG10	0	0	0	0	0	0
DNAJC27	50	48	41	84	115	117
DNAJC27-AS1	2	0	0	22	2	0
DNAJC28	20	15	13	1	0	0
DNAJC3	807	697	729	336	362	428
DNAJC30	36	35	36	108	67	143
DNAJC4	28	32	35	34	35	3
DNAJC5	161	185	186	241	197	132
DNAJC5B	15	26	13	0	0	0
DNAJC5G	0	0	0	0	0	0
DNAJC6	9	11	17	28	30	51
DNAJC7	268	257	258	250	254	294
DNAJC8	390	377	361	430	471	459
DNAJC9	72	78	59	53	69	51
DNAL1	25	17	11	22	21	19
DNAL4	64	63	59	90	113	66
DNALI1	0	1	0	0	0	3
DNASE1	69	61	85	224	166	245
DNASE1L1	55	35	30	13	12	8
DNASE1L2	0	0	0	0	0	0
DNASE1L3	1	2	3	1	4	0
DNASE2	119	141	112	43	41	19
DNASE2B	0	0	0	0	0	0
DND1	0	2	0	1	4	0
DNER	0	1	0	4	12	8
DNHD1	11	25	23	110	95	158
DNLZ	0	1	0	0	0	0
DNM1	1	0	0	0	0	0
DNM1L	88	98	85	84	69	79
DNM1P35	0	0	0	0	0	0
DNM1P46	0	0	0	0	0	0
DNM2	93	107	128	167	183	176
DNM3	37	31	35	123	115	199
DNM3OS	0	0	0	0	0	0
DNMBP	15	11	12	6	4	3
DNMBP-AS1	0	0	0	0	0	3
DNMT1	633	624	631	305	300	335
DNMT3A	93	86	93	125	140	107
DNMT3B	0	1	0	0	0	0
DNMT3L	0	0	0	1	0	3
DNPEP	82	93	98	43	46	30
DNTT	0	0	0	4	0	3
DNTTIP1	74	87	88	51	79	94
DNTTIP2	436	444	381	587	569	651
DOC2A	0	0	0	0	0	0
DOC2B	0	0	0	0	4	0
DOC2GP	0	0	0	0	0	0
DOCK1	2	12	5	0	0	0
DOCK10	543	539	544	448	493	376
DOCK11	319	342	351	362	307	291
DOCK2	224	216	244	177	155	173
DOCK3	1	7	3	34	35	35
DOCK4	341	296	353	22	41	61
DOCK5	107	87	78	56	24	75
DOCK6	0	0	0	1	0	0
DOCK7	39	46	41	139	117	213
DOCK8	367	382	414	415	345	388
DOCK9	143	165	132	309	246	271
DOHH	7	15	3	0	0	19
DOK1	72	98	76	22	43	13
DOK2	64	66	67	6	15	0
DOK3	74	88	85	28	24	35
DOK4	4	1	1	4	0	0
DOK5	0	0	0	1	0	0
DOK6	2	5	6	37	30	61
DOK7	0	0	0	0	0	0
DOLK	11	20	8	1	2	0
DOLPP1	44	45	43	19	15	0
DONSON	25	12	15	45	12	24

DOT1L	45	60	72	25	18	8
DPAGT1	84	82	72	48	43	24
DPCD	1	1	6	0	0	0
DPEP1	0	0	0	0	0	0
DPEP2	28	23	29	34	21	46
DPEP3	0	0	0	0	0	8
DPF1	0	0	0	0	2	0
DPF2	67	96	79	117	111	117
DPF3	0	4	1	6	0	3
DPH1	0	0	0	0	0	0
DPH2	32	41	44	66	54	35
DPH3	93	72	69	72	75	103
DPH3P1	0	0	0	0	0	0
DPH5	66	86	74	232	230	264
DPM1	240	266	232	243	254	227
DPM2	21	21	11	51	38	61
DPM3	60	57	48	82	92	51
DPP10	7	5	5	16	49	61
DPP3	25	26	20	0	0	0
DPP4	42	32	26	69	77	35
DPP6	0	0	3	9	18	13
DPP7	55	71	67	63	82	75
DPP8	408	340	328	450	385	472
DPP9	82	100	112	112	97	136
DPPA2	0	0	0	0	0	0
DPPA3	0	0	0	0	0	3
DPPA4	4	2	3	0	0	0
DPPA5	0	0	0	0	0	0
DPRX	0	0	0	0	0	0
DPRXP4	10	4	5	0	0	0
DPT	0	0	0	0	0	0
DPY19L1	111	118	107	134	113	112
DPY19L1P1	0	1	0	6	0	0
DPY19L2	0	1	1	0	0	0
DPY19L2P1	1	0	0	0	0	3
DPY19L2P2	1	5	5	0	7	0
DPY19L2P3	4	0	0	0	2	0
DPY19L2P4	0	0	0	0	0	0
DPY19L3	38	26	23	37	24	0
DPY19L4	64	55	48	76	57	66
DPY30	90	94	75	66	75	24
DPYD	238	205	229	69	79	107
DPYS	4	5	1	0	0	0
DPYSL2	565	527	458	90	108	61
DPYSL3	6	4	3	9	27	3
DPYSL4	0	0	0	0	0	0
DPYSL5	0	0	0	0	0	0
DQX1	0	0	0	0	0	0
DR1	462	432	447	450	475	467
DRAM1	274	307	273	31	35	30
DRAM2	152	163	132	151	166	121
DRAP1	209	234	277	134	170	151
DRD1	0	0	0	0	0	0
DRD2	0	0	0	0	0	0
DRD3	0	0	0	0	0	0
DRD4	1	0	0	0	0	0
DRD5	0	0	0	0	0	0
DRG1	45	62	59	56	46	30
DRG2	36	32	30	45	38	30
DRGX	0	0	0	1	0	0
DROSHA	118	122	109	228	217	213
DRP2	0	0	0	0	0	0
DSC1	4	5	2	4	0	0
DSC2	41	33	31	0	2	3
DSC3	0	0	0	0	0	0
DSCAM	1	0	0	13	9	30
DSCAM-AS1	0	0	0	0	0	0
DSCAML1	0	0	0	0	0	0
DSCC1	5	0	0	0	0	0
DSCR10	0	0	0	0	0	0
DSCR4	0	0	0	0	0	0
DSCR8	0	0	0	4	9	19
DSCR9	0	0	0	0	0	0
DSE	343	344	288	139	97	151
DSEL	1	0	1	1	2	3
DSG1	1	0	0	0	0	8
DSG2	2	1	6	0	0	0
DSG3	0	0	0	0	0	0
DSG4	0	1	0	0	0	0
DSN1	56	61	35	22	30	0
DSP	6	1	3	1	9	8
DSPP	1	0	0	0	0	0
DST	32	33	35	143	144	182
DSTN	276	265	251	197	225	210
DSTNP2	17	16	23	6	4	8
DSTYK	122	146	130	119	177	128
DTD1	56	82	52	56	62	51
DTHD1	35	15	26	84	92	112
DTL	1	7	3	9	9	13
DTNA	14	11	9	40	24	51
DTNB	9	8	11	4	2	0
DTNB8P1	189	201	213	192	147	188
DTWD1	70	79	74	136	111	173
DTWD2	21	30	26	4	2	0
DTX1	4	1	2	4	7	0
DTX2	46	38	40	28	18	8
DTX2P1-UPK3BP1-PMS2P11	0	0	0	0	0	0
DTX3	21	25	12	16	27	8
DTX3L	525	577	588	416	475	621
DTX4	14	17	13	0	7	0
DTYMK	14	23	16	4	7	8
DUOX1	0	0	0	0	0	0
DUOX2	2	5	7	34	38	46

DUOXA1	0	0	0	6	7	13
DUOXA2	0	0	0	0	0	0
DUPD1	0	0	0	0	0	0
DUS1L	40	38	40	69	52	51
DUS3L	15	13	20	6	12	8
DUS4L	50	41	52	93	77	94
DUSP1	618	596	438	37	67	30
DUSP10	135	167	130	155	131	176
DUSP11	103	97	74	103	131	61
DUSP12	65	55	45	98	97	40
DUSP13	0	0	0	0	0	0
DUSP14	12	16	21	0	0	0
DUSP15	0	0	0	0	0	0
DUSP16	508	515	478	949	953	884
DUSP18	37	38	25	13	12	0
DUSP19	9	6	14	13	18	35
DUSP2	217	193	167	112	127	117
DUSP21	0	0	0	0	0	0
DUSP22	193	236	224	197	208	176
DUSP23	47	49	51	0	2	3
DUSP26	0	0	0	0	0	0
DUSP27	0	0	0	0	0	0
DUSP28	22	25	35	72	52	71
DUSP3	207	191	218	34	41	19
DUSP4	127	147	155	228	251	220
DUSP5	94	105	107	60	113	103
DUSP6	2041	2244	1883	114	236	158
DUSP7	62	67	68	74	77	61
DUSP8	39	40	24	58	43	94
DUSP9	0	0	0	0	0	0
DUT	536	487	471	827	738	760
DUX4	0	0	0	0	0	0
DUX4L2	0	0	0	0	0	0
DUX4L3	0	0	0	0	0	0
DUX4L4	0	0	0	0	0	0
DUX4L5	0	0	0	0	0	0
DUX4L6	0	0	0	0	0	0
DUX4L7	0	0	0	0	0	0
DUXA	0	0	0	0	0	0
DVL1	45	41	52	22	27	24
DVL2	52	55	63	53	60	30
DVL3	84	102	93	87	87	40
DYDC1	0	0	0	0	0	0
DYDC2	0	0	0	0	0	0
DYM	50	39	55	53	57	30
DYNC1H1	524	549	716	546	488	560
DYNC1I1	4	0	0	6	4	0
DYNC1I2	202	237	206	221	249	254
DYNC1LI1	142	147	130	72	113	84
DYNC1LI2	358	337	348	298	330	383
DYNC2H1	29	28	32	25	46	8
DYNC2LI1	17	9	12	13	27	19
DYNLL1	426	402	348	177	214	179
DYNLL2	103	129	109	143	155	61
DYNLRB1	110	84	83	117	95	94
DYNLRB2	0	0	0	0	2	0
DYNLT1	155	136	127	72	113	139
DYNLT3	163	163	176	143	149	117
DYRK1A	455	511	501	787	762	876
DYRK1B	7	12	11	0	9	8
DYRK2	702	741	735	866	828	808
DYRK3	1	0	0	0	0	0
DYRK4	31	26	40	25	24	13
DYSF	2	6	1	0	0	0
DYTN	0	0	0	0	0	0
DZANK1	6	13	11	0	7	13
DZIP1	0	0	0	6	15	19
DZIP1L	6	7	13	0	0	0
DZIP3	144	111	130	250	206	249
E2F1	0	6	2	6	0	0
E2F2	5	7	9	0	0	0
E2F3	430	361	381	487	473	518
E2F4	124	139	124	159	135	132
E2F5	20	26	31	51	46	24
E2F6	37	29	23	19	49	35
E2F7	1	2	0	0	0	3
E2F8	0	0	0	0	0	0
E4F1	31	17	34	45	30	3
EAF1	174	137	140	187	185	210
EAF2	64	30	44	51	35	84
EAPP	268	259	263	234	263	216
EARS2	28	26	18	40	30	24
EBAG9	195	219	203	307	257	317
EBF1	82	67	68	177	155	192
EBF2	0	0	0	0	4	8
EBF3	0	0	0	0	0	0
EBF4	0	1	0	0	0	0
EBI3	4	6	9	0	7	8
EBLN1	0	0	0	0	0	0
EBLN2	26	30	32	16	15	30
EBNA1BP2	146	150	113	98	122	84
EBP	87	72	79	48	62	24
EBPL	41	41	35	66	72	46
ECD	61	69	75	48	52	61
ECE1	63	56	53	79	100	56
ECE2	0	0	0	0	0	0
ECEL1	0	0	1	0	0	0
ECEL1P2	0	0	0	0	0	0
ECH1	88	86	104	72	111	66
ECHDC1	165	157	148	141	149	132
ECHDC2	32	33	41	51	30	46
ECHDC3	1	7	3	0	2	8
ECHS1	94	134	147	51	79	8

ECI1	40	42	55	22	21	0
ECI2	65	57	72	60	69	40
ECM1	0	2	0	0	0	0
ECM2	0	0	0	4	2	13
ECSCR	0	0	0	0	0	0
ECSTT	29	33	35	37	27	13
ECT2	32	32	25	0	4	0
ECT2L	0	0	0	1	7	13
EDA	2	0	2	0	0	0
EDA2R	0	0	0	0	0	0
EDAR	0	0	8	13	4	8
EDARADD	7	6	5	1	4	0
EDC3	17	20	11	19	4	8
EDC4	0	0	0	0	0	0
EDDM3A	0	0	0	0	0	0
EDDM3B	0	0	0	0	0	0
EDEM1	306	325	351	389	340	402
EDEM2	68	76	60	40	46	30
EDEM3	346	353	371	420	343	362
EDF1	212	206	186	321	338	348
EDIL3	2	4	2	6	0	0
EDN1	6	7	9	13	9	0
EDN2	0	0	0	6	0	3
EDN3	0	0	1	6	0	8
EDNRA	7	6	3	28	12	35
EDNRB	0	5	3	0	0	0
EEA1	495	421	452	335	326	285
EED	165	185	162	261	232	216
EEF1A1	90	86	95	195	174	233
EEF1A2	0	0	0	0	4	0
EEF1B2	285	319	343	790	888	902
EEF1D	763	830	789	1650	1830	1835
EEF1DP3	0	0	0	0	0	0
EEF1E1	102	97	75	98	103	121
EEF1G	9	4	7	6	18	19
EEF2	1617	1729	1806	2187	2352	2173
EEF2K	62	61	58	63	49	46
EEFSEC	7	12	7	4	4	3
EEPD1	45	41	32	1	2	0
EF CAB1	0	0	0	0	0	0
EF CAB10	2	1	0	0	7	3
EF CAB11	14	14	15	9	12	13
EF CAB2	7	7	5	19	18	24
EF CAB3	0	0	0	0	0	0
EF CAB5	6	1	0	13	7	13
EF CAB6	2	4	0	9	18	40
EF CAB7	9	2	6	16	7	13
EF CAB9	0	0	0	0	0	0
EFEMP1	0	0	0	0	0	0
EFEMP2	7	1	8	4	2	3
EFHB	1	4	0	1	12	46
EFHC1	18	28	37	93	67	124
EFHC2	2	2	1	0	0	0
EFHD1	1	0	2	4	0	0
EFHD2	278	351	364	139	197	132
EFNA1	9	12	8	0	7	0
EFNA2	0	0	0	0	0	0
EFNA3	1	4	7	0	0	0
EFNA4	10	6	8	0	0	0
EFNA5	6	7	3	9	12	13
EFNB1	9	7	13	1	4	0
EFNB2	0	2	2	9	9	35
EFNB3	0	0	0	6	0	0
EFR3A	580	618	625	323	350	192
EFR3B	0	2	0	58	33	124
EF S	0	0	0	0	0	0
EFTUD2	132	139	167	69	72	89
EGF	0	0	1	4	9	19
EGFEM1P	0	0	0	4	0	0
EGFL6	0	0	0	0	0	0
EGFL7	0	0	0	0	0	0
EGFL8	0	0	3	0	0	0
EGFLAM	0	0	0	0	0	0
EGFLAM-AS4	0	0	0	0	0	0
EGFR	1	0	0	0	0	0
EGLN1	167	155	146	159	199	112
EGLN2	21	31	34	28	38	13
EGLN3	11	6	13	6	0	0
EGOT	0	0	0	1	2	3
EGR1	986	1006	644	93	92	169
EGR2	679	730	537	103	129	98
EGR3	60	76	41	31	35	46
EGR4	0	0	0	0	0	0
EHBP1	64	43	52	76	60	75
EHBP1L1	47	54	53	16	4	0
EHD1	210	195	209	329	316	305
EHD2	0	0	0	0	0	0
EHD3	5	9	5	6	12	0
EHD4	119	151	154	40	54	24
EHF	2	5	0	9	2	8
EHHADH	6	7	2	13	15	8
EHMT1	155	135	127	217	170	224
EHMT2	78	70	82	98	90	98
EI24	273	328	273	293	373	329
EID1	709	696	593	866	854	889
EID2	171	165	147	187	164	224
EID2B	15	16	18	45	21	40
EID3	22	23	31	56	27	79
EIF1	1535	1571	1579	1253	1414	1223
EIF1AD	85	79	72	106	111	61
EIF1AX	328	287	275	335	354	329
EIF1AY	244	243	239	375	376	397
EIF1B	198	166	147	177	221	188

EIF2A	259	251	275	356	274	376
EIF2AK1	229	243	219	239	206	245
EIF2AK2	248	241	270	163	174	241
EIF2AK3	126	115	127	147	149	192
EIF2AK4	82	92	61	60	52	24
EIF2B1	99	94	132	56	69	46
EIF2B2	39	42	36	34	18	24
EIF2B3	69	48	59	34	21	51
EIF2B4	42	57	55	66	69	35
EIF2B5	98	98	88	147	142	121
EIF2D	65	63	75	123	97	151
EIF2S1	155	143	157	221	193	254
EIF2S2	423	456	466	498	574	595
EIF2S3	337	383	366	441	407	456
EIF3A	1846	1598	1759	2002	1861	2128
EIF3B	133	117	168	241	203	192
EIF3C	0	0	0	0	0	0
EIF3CL	0	0	0	0	0	0
EIF3D	308	373	366	549	529	508
EIF3E	259	251	248	552	479	514
EIF3F	129	115	149	427	387	400
EIF3G	90	125	162	230	242	230
EIF3H	412	418	424	819	817	871
EIF3I	92	102	124	117	155	132
EIF3IP1	0	0	0	0	0	0
EIF3J	565	515	581	470	452	459
EIF3K	431	449	409	767	742	729
EIF3L	2	0	1	1	4	0
EIF3M	329	335	307	557	556	562
EIF4A1	12	26	14	34	33	40
EIF4A2	878	801	798	1035	1039	979
EIF4A3	271	291	266	305	295	261
EIF4B	273	250	182	577	574	658
EIF4E	173	197	162	257	238	264
EIF4E1B	0	0	0	0	0	0
EIF4E2	195	225	219	132	131	98
EIF4E3	133	129	140	110	115	94
EIF4EBP1	17	11	12	0	2	0
EIF4EBP2	373	385	319	280	370	258
EIF4EBP3	10	14	17	22	4	8
EIF4ENIF1	127	105	122	100	122	112
EIF4G1	478	415	435	410	444	518
EIF4G2	1644	1644	1463	1160	1246	1021
EIF4G3	278	231	243	157	122	154
EIF4H	72	52	52	51	62	66
EIF5	744	780	683	672	640	760
EIF5A	44	49	26	48	52	46
EIF5A2	29	24	24	40	41	19
EIF5AL1	0	0	0	0	0	0
EIF5B	1267	1180	1226	1473	1323	1588
EIF6	39	88	72	63	72	61
ELAC1	15	13	18	4	4	24
ELAC2	75	60	75	48	72	40
ELANE	0	0	1	0	2	0
ELAVL1	175	215	197	345	279	297
ELAVL2	0	0	0	1	4	0
ELAVL3	0	0	0	19	18	30
ELAVL4	5	11	1	25	33	30
ELF1	724	728	721	1011	986	1027
ELF2	217	163	177	274	261	317
ELF3	1	2	3	19	9	35
ELF4	59	63	51	22	43	19
ELF5	0	0	0	0	0	3
ELFN1	0	0	1	6	0	3
ELFN2	0	0	0	6	3	13
ELK1	60	68	65	74	84	30
ELK2AP	0	0	0	0	0	0
ELK3	178	153	151	224	230	207
ELK4	562	572	574	498	508	415
ELL	128	133	103	234	217	249
ELL2	79	70	62	90	60	98
ELL3	1	0	2	0	0	0
ELMO1	119	108	109	165	122	132
ELMO2	154	143	124	143	174	143
ELMO3	0	0	1	0	0	0
ELMOD1	0	0	0	0	0	0
ELMOD2	72	73	72	84	82	75
ELMOD3	9	13	16	40	52	30
ELN	0	0	0	1	0	0
ELOF1	40	52	47	63	57	46
ELOVL1	35	43	66	13	15	3
ELOVL2	0	0	0	0	0	0
ELOVL3	0	0	0	0	0	0
ELOVL4	10	2	9	6	0	8
ELOVL5	375	382	356	422	429	369
ELOVL6	9	1	8	16	15	19
ELOVL7	2	2	0	6	2	13
ELP2	143	141	168	343	335	359
ELP3	62	45	66	63	52	56
ELP4	74	46	76	95	60	98
ELSPBP1	0	0	0	0	0	0
EMB	493	466	490	656	488	543
EMBP1	7	9	5	1	7	0
EMCN	10	8	5	60	38	124
EMD	109	115	82	141	187	117
EME1	0	5	3	0	0	0
EME2	5	8	9	22	4	19
EMG1	80	90	88	149	151	147
EMID1	0	0	0	0	0	0
EMILIN1	1	1	1	0	0	0
EMILIN2	217	178	187	16	9	24
EMILIN3	0	0	0	0	0	0
EML1	0	0	0	13	9	3

EML2	155	220	230	215	219	207
EML3	28	31	40	37	15	19
EML4	853	814	849	1571	1414	1545
EML5	13	21	17	45	12	19
EML6	9	5	17	31	35	51
EMP1	296	300	254	48	144	61
EMP2	2	0	5	13	12	46
EMP3	201	197	152	112	111	84
EMX1	0	0	0	0	0	0
EMX2	0	0	0	0	0	0
EMX2OS	0	1	0	0	7	13
EN1	0	0	0	0	0	0
EN2	0	0	0	0	2	0
ENAH	15	14	16	87	95	165
ENAM	1	1	0	0	0	0
ENC1	41	45	24	63	75	35
ENDOD1	25	17	30	19	35	19
ENDOG	24	42	44	9	49	0
ENDOU	0	0	0	0	0	3
ENDOV	14	19	16	28	35	24
ENG	67	72	63	22	15	51
ENGASE	92	74	98	100	111	94
ENHO	0	0	0	0	0	0
ENKUR	7	12	5	9	7	8
ENO1	1192	1281	1267	580	958	505
ENO1-AS1	0	1	0	6	2	19
ENO2	78	102	48	69	111	13
ENO3	7	11	7	28	21	94
ENO4	1	4	0	16	21	35
ENOPH1	129	143	121	165	159	176
ENOSF1	83	84	88	103	87	56
ENOX1	13	8	8	34	35	94
ENOX2	35	43	43	79	46	46
ENPEP	5	1	1	6	15	24
ENPP1	2	2	2	28	7	3
ENPP2	34	39	28	9	4	8
ENPP3	2	2	5	6	12	35
ENPP4	123	111	106	145	155	98
ENPP5	14	11	11	0	2	0
ENPP6	0	0	0	0	0	0
ENPP7	0	0	1	0	0	0
ENSA	225	315	240	171	212	207
ENTHD1	1	1	0	4	0	13
ENTPD1	100	105	104	74	54	56
ENTPD2	0	0	0	0	0	0
ENTPD3	0	0	0	0	0	0
ENTPD3-AS1	10	1	5	6	9	3
ENTPD4	142	120	145	139	124	71
ENTPD5	41	26	39	45	60	56
ENTPD6	28	25	22	28	12	24
ENTPD7	9	6	6	0	0	0
ENTPD8	0	0	0	0	0	0
ENV2	336	357	309	234	270	271
EOMES	152	125	134	141	206	107
EP300	500	526	698	601	501	607
EP400	256	270	403	354	352	340
EPA51	10	13	6	1	0	3
EPB41	699	684	885	1119	1033	1078
EPB41L1	0	1	0	0	7	0
EPB41L2	127	135	148	106	122	139
EPB41L3	347	321	317	9	12	19
EPB41L4A	5	4	7	4	15	0
EPB41L4A-AS1	223	259	202	635	617	616
EPB41L4B	0	0	0	0	0	0
EPB41L5	20	8	14	13	7	56
EPB42	0	0	0	0	0	0
EPC1	907	803	822	896	879	920
EPC2	169	170	169	161	193	207
EPCAM	0	0	0	0	0	0
EPDR1	2	4	5	0	0	0
EPG5	174	158	201	224	208	264
EPGN	0	0	0	0	0	0
EPHA1	6	2	9	6	7	3
EPHA10	0	0	0	0	0	0
EPHA2	1	2	0	13	0	3
EPHA3	1	0	0	0	0	0
EPHA4	92	63	68	132	131	121
EPHA5	15	15	14	103	97	112
EPHA6	0	0	0	0	4	30
EPHA7	1	0	1	0	0	0
EPHA8	0	0	0	4	0	3
EPHB1	4	1	2	0	0	19
EPHB2	56	80	71	0	0	0
EPHB3	0	0	0	0	0	8
EPHB4	1	4	2	16	2	3
EPHB6	25	15	13	45	43	40
EPHX1	0	2	0	0	0	0
EPHX2	17	23	29	53	54	30
EPHX3	0	0	0	0	0	0
EPHX4	0	0	0	0	4	0
EPM2A	30	16	13	22	15	19
EPM2AIP1	311	347	350	560	498	626
EPN1	64	43	55	139	87	143
EPN2	14	15	18	0	4	0
EPN3	0	0	0	0	0	0
EPO	0	0	0	0	0	0
EPOR	5	9	11	1	2	3
EPPK1	0	5	2	9	7	3
EPRS	627	551	577	716	694	743
EPS15	297	319	373	354	407	372
EPS15L1	41	45	46	66	57	89
EPS8	6	9	6	16	27	46
EPS8L1	1	2	0	1	0	0

EPS8L2	1	5	3	0	15	13
EPS8L3	0	0	0	0	0	0
EPST11	675	535	535	180	201	245
EPX	0	0	0	0	0	0
EPYC	0	0	0	0	0	0
ERAL1	19	8	3	1	4	0
ERAP1	340	328	295	221	234	173
ERAP2	93	97	94	95	97	158
ERAS	0	0	0	0	0	0
ERBB2	2	6	6	1	2	8
ERBB3	4	0	0	19	2	19
ERBB4	2	0	1	1	7	13
ERC1	118	124	132	95	95	71
ERC2	4	1	1	0	4	0
ERCC1	36	46	44	45	12	8
ERCC2	6	7	7	4	2	13
ERCC3	155	129	160	241	236	233
ERCC4	129	118	116	190	214	179
ERCC5	14	14	16	28	30	8
ERCC6	84	62	79	103	90	71
ERCC6L	0	0	0	9	7	30
ERCC8	4	11	6	13	4	13
EREG	58	50	50	93	111	71
ERF	46	43	50	56	75	61
ERG	0	0	2	0	0	0
ERGIC1	179	185	193	175	183	147
ERGIC2	467	391	400	470	496	565
ERGIC3	84	79	60	79	79	84
ERH	405	409	411	498	617	576
ERI1	66	50	65	43	60	19
ERI2	23	30	14	4	4	3
ERI3	5	4	17	1	2	0
ERIC1	188	184	206	209	203	207
ERLEC1	190	169	138	151	166	103
ERLIN1	116	120	146	114	100	84
ERLIN2	103	106	104	117	106	132
ERMAP	5	13	18	25	9	46
ERMN	2	11	7	34	12	35
ERMMP1	46	46	44	51	38	51
ERN1	337	342	311	699	656	773
ERN2	0	0	0	0	0	0
ERP27	2	2	11	1	4	0
ERP29	548	579	569	816	819	867
ERP44	478	421	432	356	332	359
ERRF11	11	5	6	4	0	0
ERV3-1	21	20	25	53	60	46
ERVFRD-1	0	0	0	0	0	0
ERVK13-1	56	43	58	82	43	128
ERVMER34-1	0	0	0	0	0	0
ERVV-1	0	0	0	0	0	0
ERVV-2	0	0	0	0	0	0
ESAM	1	0	0	0	2	3
ESCO1	249	254	270	254	279	305
ESCO2	6	2	7	6	9	3
ESD	165	165	187	193	133	169
ESF1	484	435	442	546	488	612
ESM1	1	4	1	9	4	8
ESPL1	1	2	8	13	0	0
ESPN	0	0	0	0	0	0
ESPNL	0	0	0	9	4	8
ESPNP	0	0	0	0	0	0
ESR1	20	11	12	40	35	56
ESR2	4	0	0	6	2	40
ESRG	0	0	0	0	0	0
ESRP1	0	2	1	0	2	13
ESRP2	0	0	0	0	0	0
ESRRR	108	92	108	53	33	75
ESRRB	0	0	0	1	2	8
ESRRG	1	2	2	6	2	13
ESX1	0	0	0	0	0	0
ESYT1	144	125	124	69	124	56
ESYT2	222	198	207	237	261	165
ESYT3	0	0	0	0	0	3
ETAA1	55	67	45	119	120	143
ETFA	183	187	189	203	181	224
ETFB	287	317	235	193	217	220
ETFDH	56	58	50	53	49	103
ETHE1	37	28	23	31	49	35
ETNK1	37	40	34	16	24	13
ETNK2	448	470	458	349	362	329
ETNK2	1	0	0	0	0	0
ETS1	1830	1811	1776	2244	2408	2274
ETS2	179	217	237	103	135	79
ETV1	13	21	20	87	69	117
ETV2	2	1	1	4	0	0
ETV3	82	87	108	84	84	103
ETV3L	0	0	0	0	0	0
ETV4	0	0	0	0	0	0
ETV5	22	17	17	0	0	0
ETV6	341	371	416	309	316	325
ETV7	41	39	37	16	24	35
EVC	0	0	0	1	0	0
EVC2	2	4	0	1	2	3
EVI2A	417	341	307	252	270	220
EVI2B	1068	980	1090	793	894	760
EVI5	180	135	178	56	46	84
EVI5L	4	2	3	0	0	8
EVL	460	472	519	691	665	723
EVPL	0	0	0	0	0	8
EVPLL	0	0	0	0	0	0
EVX1	0	0	0	0	0	0
EVX2	0	0	0	0	0	0
EWSR1	451	511	550	704	625	729

EXD1	0	0	0	0	0	0
EXD2	12	16	8	28	24	19
EXD3	6	8	16	4	9	13
EXO1	4	0	0	0	0	0
EXOC1	219	203	213	254	185	241
EXOC2	104	98	111	121	147	158
EXOC3	126	133	135	141	120	124
EXOC3L1	0	0	0	0	0	0
EXOC3L2	0	0	0	0	0	0
EXOC3L4	0	0	0	0	0	0
EXOC4	90	117	107	123	77	139
EXOC5	296	312	268	250	191	282
EXOC6	84	66	87	103	97	143
EXOC6B	37	38	30	28	30	61
EXOC7	104	80	113	119	120	103
EXOC8	143	113	138	136	127	158
EXOG	20	31	43	48	65	71
EXOSC1	39	33	40	69	60	46
EXOSC10	80	67	60	90	57	51
EXOSC2	36	38	30	53	65	19
EXOSC3	121	90	77	79	82	84
EXOSC4	20	9	20	9	0	0
EXOSC5	20	25	23	1	15	19
EXOSC6	324	353	351	409	463	493
EXOSC7	65	97	78	56	84	40
EXOSC8	88	73	55	79	69	71
EXOSC9	167	143	124	201	158	158
EXPH5	24	15	21	19	24	66
EXT1	10	15	22	31	21	24
EXT2	45	42	30	63	38	35
EXTL1	1	0	0	0	0	0
EXTL2	9	11	17	45	18	56
EXTL3	20	22	21	9	7	3
EYA1	1	0	0	4	0	0
EYA2	0	0	0	0	0	0
EYA3	162	165	193	145	149	103
EYA4	6	12	6	79	35	124
EYS	5	7	5	31	15	56
EZH1	121	115	155	182	149	162
EZH2	107	107	119	95	100	132
EZR	453	431	426	502	511	499
F10	0	0	0	0	0	0
F11	0	0	1	0	0	19
F11R	66	82	58	51	65	13
F12	0	0	0	0	0	0
F13A1	5	4	0	16	4	51
F13B	0	0	0	0	0	0
F2	0	0	0	0	0	0
F2R	110	93	89	182	140	117
F2RL1	6	11	8	13	12	24
F2RL2	0	0	2	6	21	3
F2RL3	0	0	0	0	0	0
F3	54	68	66	13	27	19
F5	14	12	9	34	4	24
F7	0	0	0	0	0	0
F8	38	37	26	37	62	35
F8A1	4	7	0	1	2	0
F8A2	0	0	0	0	0	0
F8A3	0	0	0	0	0	0
F9	0	1	0	0	0	0
FA2H	0	0	0	0	0	0
FAAH	0	0	6	0	0	0
FAAH2	15	31	25	129	84	84
FABP1	0	0	0	0	0	0
FABP12	0	0	0	0	0	0
FABP2	0	0	0	0	0	0
FABP3	0	0	0	0	0	0
FABP4	1	0	2	0	0	0
FABP5	2	0	0	0	2	0
FABP5P3	1	4	0	13	7	8
FABP6	0	0	0	0	0	0
FABP7	0	0	0	0	0	0
FABP9	0	0	0	0	0	0
FADD	35	58	47	56	97	51
FADS1	46	57	18	22	18	30
FADS2	1	1	2	0	0	0
FADS3	20	30	30	37	9	24
FADS6	0	0	0	0	4	3
FAF1	39	40	42	45	38	13
FAF2	140	122	146	193	185	192
FAH	26	17	20	0	2	0
FAHD1	46	60	47	9	33	19
FAHD2A	11	8	8	13	15	24
FAHD2B	1	5	1	0	0	0
FAIM	9	9	15	9	0	3
FAIM2	0	0	0	0	0	0
FAM102A	658	783	899	1354	1452	1354
FAM102B	55	61	50	34	21	30
FAM104A	117	124	96	117	90	89
FAM104B	25	39	41	31	27	19
FAM106A	6	7	6	4	7	3
FAM107A	0	4	6	28	33	51
FAM107B	1260	1320	1148	1883	1927	1751
FAM110A	36	38	29	16	12	8
FAM110B	6	6	0	4	0	0
FAM110C	4	0	1	0	0	0
FAM110D	0	0	0	0	0	0
FAM111A	412	406	409	323	314	249
FAM111B	41	35	32	13	35	75
FAM114A1	17	12	23	4	0	0
FAM114A2	135	113	109	149	183	162
FAM117A	220	265	251	391	405	340
FAM117B	68	72	78	127	75	103

FAM118A	118	132	132	197	174	158
FAM118B	31	41	21	4	15	3
FAM120A	1238	1291	1253	942	819	880
FAM120AOS	197	182	160	302	212	332
FAM120B	66	76	79	93	120	117
FAM120C	29	24	24	87	49	117
FAM122A	78	61	52	40	69	40
FAM122B	146	173	177	245	252	233
FAM122C	21	21	18	1	2	8
FAM124A	0	1	1	0	4	0
FAM124B	0	0	0	0	0	0
FAM126A	98	115	104	110	122	128
FAM126B	184	191	167	190	172	173
FAM129A	640	613	674	740	646	641
FAM129B	82	97	115	6	21	0
FAM129C	38	29	32	60	35	84
FAM131A	61	55	41	31	27	24
FAM131B	0	2	0	6	0	8
FAM131C	0	0	0	0	0	0
FAM133A	0	0	0	0	0	8
FAM133B	99	65	116	119	97	121
FAM135A	72	54	55	60	35	61
FAM135B	0	0	0	0	0	0
FAM136A	102	113	99	63	90	46
FAM138A	0	0	0	0	0	0
FAM138B	0	0	0	0	0	0
FAM138C	0	0	0	0	0	0
FAM138D	0	0	0	0	0	0
FAM138E	0	0	0	0	0	0
FAM138F	0	0	0	0	0	0
FAM13A	76	52	53	25	52	56
FAM13A-AS1	52	54	53	34	30	24
FAM13B	197	200	249	226	221	203
FAM13C	0	0	0	0	0	0
FAM149A	0	0	0	0	4	8
FAM149B1	30	28	32	19	15	8
FAM151A	0	0	0	0	0	0
FAM151B	2	2	1	6	0	8
FAM153A	40	77	62	25	46	46
FAM153B	0	0	0	0	0	0
FAM153C	0	0	1	0	2	0
FAM155A	5	0	1	9	4	13
FAM155B	0	0	0	0	0	0
FAM156A	0	0	0	0	2	0
FAM156B	0	0	0	0	0	0
FAM157A	0	0	0	0	0	0
FAM157B	2	1	5	0	0	8
FAM160A1	0	0	2	0	0	0
FAM160A2	38	43	32	22	57	0
FAM160B1	117	122	136	192	181	216
FAM160B2	36	39	36	40	52	94
FAM161A	19	15	16	48	7	24
FAM161B	5	1	11	6	2	3
FAM162A	311	361	307	243	290	227
FAM162B	0	0	0	0	0	0
FAM163A	0	0	0	0	0	0
FAM163B	0	0	0	0	0	0
FAM166A	0	0	0	0	0	0
FAM166B	0	0	0	0	2	0
FAM167A	4	0	1	0	4	0
FAM167B	0	0	1	4	0	0
FAM168A	56	71	53	31	41	51
FAM168B	94	90	98	157	120	173
FAM169A	64	67	48	175	153	176
FAM169B	0	0	0	0	0	0
FAM170A	0	0	0	0	0	3
FAM170B	0	0	0	0	0	0
FAM171A1	13	13	15	9	18	19
FAM171A2	0	5	3	28	21	19
FAM171B	0	1	3	6	0	0
FAM172A	205	193	215	234	257	282
FAM172BP	0	0	1	0	0	0
FAM173A	23	35	28	4	9	0
FAM173B	19	19	13	4	4	0
FAM174A	34	41	39	9	30	0
FAM174B	4	5	0	4	7	8
FAM177A1	183	148	175	159	144	196
FAM177B	6	14	9	25	24	35
FAM178B	0	0	0	0	0	0
FAM180A	0	0	0	0	0	0
FAM180B	0	0	0	0	0	3
FAM181A	0	0	0	0	0	0
FAM181A-AS1	0	0	0	0	0	0
FAM181B	0	0	0	0	0	0
FAM182A	0	0	0	0	0	0
FAM182B	0	0	0	0	4	0
FAM183A	0	0	0	0	0	0
FAM184A	22	13	14	51	21	56
FAM184B	0	0	0	16	7	51
FAM185A	4	2	8	9	2	0
FAM186A	0	0	2	1	4	3
FAM186B	0	0	0	0	0	8
FAM187B	0	0	0	0	0	0
FAM189A1	0	0	0	0	0	0
FAM189A2	2	0	0	1	2	0
FAM189B	47	47	47	51	54	19
FAM192A	136	177	147	192	187	182
FAM193A	170	163	155	165	172	203
FAM193B	51	52	42	74	33	46
FAM198A	0	0	0	0	0	0
FAM198B	155	146	141	4	4	8
FAM199X	117	102	120	123	133	162
FAM19A1	1	0	0	0	0	3

FAM19A2	15	14	14	31	9	40
FAM19A3	0	0	0	0	0	0
FAM19A4	0	0	0	0	0	0
FAM19A5	0	0	0	0	0	0
FAM200A	19	30	35	93	115	154
FAM200B	126	128	98	125	97	132
FAM201A	1	1	0	0	0	0
FAM204A	233	225	225	290	251	291
FAM205A	0	0	0	0	0	0
FAM206A	45	35	32	16	27	19
FAM207A	13	16	12	25	7	0
FAM208A	541	539	517	662	577	717
FAM208B	179	159	225	226	181	182
FAM209A	5	5	2	22	24	51
FAM209B	1	0	0	4	0	0
FAM20A	1	2	6	0	2	0
FAM20B	146	161	144	132	151	121
FAM20C	135	166	145	0	0	0
FAM210A	99	74	105	103	140	89
FAM210B	167	153	126	90	95	98
FAM214A	172	143	179	245	214	301
FAM214B	25	23	18	0	2	0
FAM215A	0	0	0	0	0	0
FAM216A	127	130	103	134	164	79
FAM216B	0	0	0	0	0	0
FAM217A	0	0	0	0	0	0
FAM217B	237	236	225	184	225	185
FAM24A	0	0	0	0	0	0
FAM24B	30	26	30	43	72	46
FAM25A	0	0	0	0	0	0
FAM25C	0	0	0	0	0	0
FAM25G	0	0	0	0	0	0
FAM27B	0	0	0	0	0	0
FAM27C	0	0	0	0	0	0
FAM32A	367	353	366	333	359	314
FAM3A	26	26	24	31	15	8
FAM3B	4	0	0	0	0	0
FAM3C	126	152	173	82	90	56
FAM3D	0	0	1	0	0	0
FAM41AY1	0	0	0	0	0	0
FAM41AY2	0	0	0	0	0	0
FAM41C	0	0	0	0	0	0
FAM43A	94	118	94	121	97	79
FAM43B	0	0	0	0	0	0
FAM45A	45	28	37	13	35	8
FAM47A	0	0	0	0	0	0
FAM47B	0	0	0	0	0	0
FAM47C	0	0	0	0	0	0
FAM47E	2	0	0	0	2	3
FAM47E-STBD1	0	0	0	0	0	0
FAM49A	169	152	146	74	106	71
FAM49B	873	883	912	493	629	514
FAM50A	46	61	51	48	21	24
FAM50B	14	21	23	16	21	8
FAM53A	0	5	3	0	0	0
FAM53B	160	194	177	356	314	321
FAM53C	84	96	100	63	79	56
FAM57A	2	0	2	0	0	0
FAM57B	0	0	0	4	7	24
FAM66A	0	0	0	0	0	0
FAM66B	0	0	0	0	0	0
FAM66C	0	1	1	19	15	19
FAM66D	0	0	0	0	0	0
FAM66E	0	0	0	0	0	0
FAM69A	46	37	32	40	57	79
FAM69B	0	2	0	0	0	0
FAM69C	0	0	0	0	0	0
FAM71A	0	0	0	0	0	0
FAM71B	0	0	0	0	0	0
FAM71C	0	0	0	0	0	0
FAM71D	0	0	0	0	0	0
FAM71E1	0	0	0	0	0	0
FAM71E2	0	0	0	0	0	0
FAM71F1	0	0	0	22	12	8
FAM71F2	0	0	1	1	4	0
FAM72A	0	0	1	0	0	3
FAM72B	1	0	0	0	0	0
FAM72D	1	0	0	0	0	0
FAM74A1	0	0	0	0	0	0
FAM74A3	0	0	0	0	0	0
FAM74A4	0	0	0	0	0	0
FAM76A	64	68	58	53	46	51
FAM76B	227	195	225	207	187	154
FAM78A	106	101	129	90	95	75
FAM78B	0	0	3	6	15	3
FAM81A	0	0	0	0	0	0
FAM81B	1	1	0	6	7	8
FAM83A	0	1	1	4	7	0
FAM83B	1	0	0	9	7	24
FAM83C	0	0	0	6	2	19
FAM83D	1	5	0	95	67	79
FAM83E	0	0	0	0	0	0
FAM83F	4	0	0	93	46	173
FAM83G	12	13	13	22	4	3
FAM83H	1	2	3	0	2	0
FAM84A	2	1	12	45	43	56
FAM84B	55	61	47	125	100	103
FAM86B1	0	0	0	0	0	0
FAM86B2	0	0	0	0	0	0
FAM86C1	1	0	0	0	0	0
FAM86C2P	0	0	0	0	0	0
FAM86DP	7	1	3	1	0	0
FAM86EP	0	0	1	0	0	0

FAM86FP	0	0	0	0	0	0
FAM86HP	0	0	0	0	2	0
FAM89A	22	13	22	28	18	13
FAM89B	65	79	101	28	30	40
FAM8A1	134	139	106	141	149	117
FAM90A1	0	1	0	0	0	3
FAM90A25P	0	0	0	0	0	0
FAM90A27P	0	0	0	0	0	0
FAM90A2P	0	0	0	0	0	0
FAM91A1	210	198	222	177	153	165
FAM92B	0	0	0	0	0	0
FAM95B1	0	0	0	0	0	0
FAM98A	46	38	51	22	21	24
FAM98B	162	106	126	79	72	56
FAM98C	38	28	43	45	21	35
FAM99A	0	0	0	0	0	0
FAM99B	0	0	0	0	0	0
FAM9A	0	0	0	0	0	0
FAM9B	2	0	0	0	0	0
FAM9C	1	0	0	1	2	0
FAN1	32	35	44	74	57	75
FANCA	15	19	22	1	12	24
FANCB	14	9	11	0	4	24
FANCC	11	7	9	16	27	40
FANCD2	64	66	45	84	67	107
FANCE	21	33	17	6	7	19
FANCF	66	52	41	114	100	124
FANCG	13	16	25	22	2	3
FANCI	31	31	32	53	43	40
FANCL	75	93	87	82	106	40
FANCM	55	42	30	51	33	56
FANK1	1	0	2	0	12	0
FAP	4	4	2	37	38	112
FAR1	543	503	550	266	195	308
FAR2	32	29	26	1	0	8
FARP1	11	8	14	53	65	121
FARP2	61	67	57	13	21	8
FARS2	13	16	15	31	7	46
FARSA	37	35	36	19	27	0
FARSB	29	33	21	28	35	51
FAS	85	72	82	74	111	66
FASLG	39	37	29	31	60	8
FASN	50	42	57	43	46	8
FASTK	63	106	107	136	124	132
FASTKD1	102	95	104	84	95	158
FASTKD2	106	71	68	58	97	79
FASTKD3	31	25	23	25	35	24
FASTKD5	198	215	187	252	240	308
FAT1	0	1	0	0	0	0
FAT2	0	0	0	0	0	0
FAT3	2	4	1	6	24	19
FAT4	1	7	3	0	2	0
FATE1	0	0	0	0	0	0
FAU	2467	2604	2604	3529	3529	3529
FAXC	2	1	1	0	0	8
FBF1	7	6	5	9	9	19
FBL	515	657	726	1216	1379	1280
FBLIM1	0	0	0	0	0	8
FBL11	0	0	0	4	12	0
FBLN1	0	0	0	0	0	0
FBLN2	0	0	1	0	0	0
FBLN5	63	74	54	226	181	267
FBLN7	7	4	8	6	9	13
FBN1	1	0	8	4	7	40
FBN2	7	2	5	4	4	8
FBN3	0	0	0	0	0	0
FBP1	268	372	321	4	0	0
FBP2	0	0	0	0	0	0
FBRS	137	133	160	159	170	185
FBRS11	64	62	77	110	75	30
FBXL12	77	80	84	87	97	71
FBXL13	5	2	6	1	4	8
FBXL14	1	1	0	1	4	0
FBXL15	26	17	20	13	30	8
FBXL16	64	71	68	79	82	35
FBXL17	152	144	155	268	240	329
FBXL18	1	5	5	4	9	3
FBXL19	13	9	35	13	7	3
FBXL19-AS1	0	2	3	25	2	0
FBXL2	2	0	0	0	0	0
FBXL20	77	93	134	143	124	132
FBXL21	0	0	0	0	0	0
FBXL22	2	4	3	4	4	8
FBXL3	257	269	267	175	197	199
FBXL4	88	114	78	98	92	94
FBXL5	297	259	179	177	183	188
FBXL6	0	0	2	1	2	0
FBXL7	0	0	0	0	0	0
FBXL8	2	0	0	0	0	0
FBXO10	7	8	5	19	15	24
FBXO11	458	433	478	369	415	499
FBXO15	5	5	3	9	7	13
FBXO16	0	0	0	1	0	13
FBXO17	0	0	0	0	0	0
FBXO2	6	1	5	4	0	0
FBXO21	196	177	179	199	214	230
FBXO22	113	109	126	132	140	182
FBXO24	0	4	0	9	12	30
FBXO25	125	108	85	127	131	94
FBXO27	0	0	0	0	2	8
FBXO28	100	60	94	103	129	94
FBXO3	174	163	185	195	187	210
FBXO30	55	65	48	58	62	61

FBXO31	39	33	16	43	46	61
FBXO32	195	217	167	257	223	224
FBXO33	118	92	107	112	151	124
FBXO34	127	134	130	157	172	188
FBXO36	5	0	1	0	0	0
FBXO38	123	122	111	203	159	173
FBXO39	0	0	0	1	0	0
FBXO4	62	56	50	98	84	75
FBXO40	0	0	0	0	0	0
FBXO41	14	14	11	9	4	0
FBXO42	44	61	54	69	67	66
FBXO43	2	0	0	6	4	35
FBXO44	11	11	14	13	7	8
FBXO45	153	143	160	129	127	75
FBXO46	88	93	100	108	120	121
FBXO47	0	4	0	1	2	19
FBXO48	22	11	17	37	46	56
FBXO5	50	47	35	53	49	56
FBXO6	12	16	25	1	0	3
FBXO7	381	378	406	404	397	486
FBXO8	48	49	40	34	27	40
FBXO9	336	335	317	349	335	332
FBXW10	0	0	0	0	0	3
FBXW11	136	104	112	147	142	213
FBXW12	0	0	0	1	0	0
FBXW2	234	265	246	360	325	271
FBXW4	37	37	30	48	52	24
FBXW4P1	5	7	0	1	7	3
FBXW5	72	92	96	25	41	13
FBXW7	370	349	403	617	654	621
FBXW8	17	19	12	28	24	46
FBXW9	1	6	2	0	7	0
FCAMR	0	0	0	0	0	0
FCAR	17	13	11	0	0	0
FCER1A	115	109	109	40	38	13
FCER1G	924	1062	973	98	147	84
FCER2	7	8	14	6	0	0
FCF1	209	236	208	387	343	369
FCGBP	7	5	5	25	33	8
FCGR1A	31	32	39	0	0	0
FCGR1B	9	15	8	0	0	3
FCGR2A	155	143	146	1	9	0
FCGR2B	240	227	169	34	30	30
FCGR2C	107	109	99	4	2	13
FCGR3A	231	257	192	58	87	51
FCGR3B	10	0	5	6	2	24
FCGRT	151	210	171	13	9	0
FCHO1	20	20	18	16	4	3
FCHO2	78	66	55	31	15	35
FCHSD1	32	47	42	25	12	24
FCHSD2	119	90	113	98	77	79
FCN1	962	1048	966	0	18	13
FCN2	0	0	0	0	0	0
FCN3	0	0	0	0	0	3
FCRL1	9	16	21	13	18	30
FCRL2	28	19	20	25	49	61
FCRL3	72	72	58	87	72	46
FCRL4	9	8	9	37	24	71
FCRL5	14	11	12	4	4	0
FCRL6	34	39	30	25	7	13
FCRLA	13	20	15	34	35	40
FCRLB	5	7	3	0	2	0
FDCSP	0	0	1	0	0	0
FDF1	197	210	192	207	219	165
FDP5	108	108	122	112	117	107
FDX1	213	185	202	175	153	94
FDXACB1	22	28	13	0	12	0
FDXR	11	6	2	0	4	0
FECH	103	87	93	40	60	46
FEM1A	66	70	72	155	106	213
FEM1B	364	362	350	321	242	297
FEM1C	56	49	36	66	41	46
FEN1	35	37	39	31	35	35
FER	76	77	79	28	52	19
FER1L4	0	0	0	4	7	40
FER1L5	0	0	0	0	2	8
FER1L6	0	0	0	0	0	3
FER1L6-AS1	0	0	0	0	0	0
FERD3L	0	0	0	0	0	0
FERMT1	2	7	2	19	21	46
FERMT2	1	2	0	34	18	40
FERMT3	288	257	289	117	103	61
FES	18	21	15	4	2	0
FETUB	0	0	0	0	0	0
FEV	0	0	0	0	0	0
FEZ1	13	14	17	100	90	107
FEZ2	169	139	126	56	60	56
FEZF1	0	0	0	0	0	0
FEZF2	0	0	0	0	0	0
FFAR1	0	0	0	9	4	13
FFAR2	2	5	6	0	0	13
FFAR3	0	0	0	0	0	0
FGA	0	0	0	0	0	0
FGB	0	0	0	0	0	0
FGD1	0	0	0	0	0	0
FGD2	101	111	80	45	52	46
FGD3	160	169	160	139	159	154
FGD4	173	179	165	72	62	128
FGD5	0	1	0	0	0	19
FGD5-AS1	377	395	370	383	365	335
FGD6	39	37	25	9	15	13
FGF1	0	0	0	0	0	0
FGF10	0	0	0	0	0	0

FGF11	0	0	0	0	2	0
FGF12	7	11	8	53	57	94
FGF13	2	0	0	0	0	0
FGF14	4	0	2	0	2	8
FGF14-IT1	0	0	0	0	0	0
FGF16	0	0	0	0	0	0
FGF17	0	0	0	0	0	0
FGF18	1	1	0	40	18	46
FGF19	0	0	0	0	0	0
FGF2	0	0	0	0	0	0
FGF20	0	0	0	0	0	0
FGF21	0	0	0	0	0	0
FGF22	0	0	0	0	0	3
FGF23	0	0	0	0	0	3
FGF3	0	0	0	0	0	0
FGF4	0	0	0	0	0	0
FGF5	0	0	0	0	0	0
FGF6	0	0	0	0	0	0
FGF7	0	0	0	0	2	3
FGF8	0	0	0	0	0	0
FGF9	17	29	29	103	82	143
FGFBP1	0	0	0	0	0	0
FGFBP2	233	285	251	134	174	89
FGFBP3	14	5	21	37	12	8
FGFR1	44	39	32	63	67	8
FGFR1OP	47	48	36	76	60	46
FGFR1OP2	948	876	756	798	770	851
FGFR2	0	4	2	0	0	3
FGFR3	0	0	0	0	2	0
FGFR4	0	0	0	0	0	0
FGFRL1	15	9	20	16	12	19
FGG	0	0	1	0	0	0
FGGY	10	11	14	13	60	124
FGL1	0	0	0	0	0	0
FGL2	2707	2551	2408	40	54	24
FGR	238	305	323	37	65	51
FH	88	84	101	40	52	46
FHAD1	20	22	37	1	7	0
FHDC1	4	2	2	6	0	0
FHIT	7	16	25	84	82	121
FHL1	2	5	5	0	0	0
FHL2	0	0	0	0	0	0
FHL3	24	23	24	4	12	0
FHL5	0	0	0	0	0	0
FHOD1	142	204	187	98	97	46
FHOD3	0	0	0	0	0	3
FIBCD1	0	0	0	0	0	0
FIBIN	0	0	0	0	0	0
FIBP	56	43	48	16	24	3
FICD	50	50	39	13	9	0
FIG4	55	49	60	19	18	3
FIGLA	0	0	0	0	0	0
FIGN	13	8	6	34	52	89
FIGNL1	60	58	66	45	57	13
FILIP1	2	5	3	9	2	3
FILIP1L	6	17	9	34	18	30
FIP1L1	392	412	377	672	574	668
FIS1	32	46	57	37	35	51
FITM1	0	0	0	1	0	0
FITM2	13	12	23	13	0	30
FIZ1	10	9	6	19	7	8
FJX1	0	0	0	0	2	0
FKBP10	0	0	0	0	0	3
FKBP11	22	46	35	69	30	61
FKBP14	15	21	36	0	12	8
FKBP15	234	236	263	108	147	147
FKBP1A	184	198	190	129	158	84
FKBP1B	6	6	3	1	0	0
FKBP2	238	244	224	161	153	139
FKBP3	486	455	392	549	601	607
FKBP4	54	50	35	40	46	46
FKBP5	243	228	240	271	232	254
FKBP6	0	0	0	0	0	0
FKBP7	2	4	3	1	4	8
FKBP8	10	19	24	25	35	35
FKBP9	4	0	0	0	0	0
FKBPL	7	4	7	0	2	3
FKRP	10	20	14	19	15	24
FKTN	34	30	29	37	38	35
FLAD1	59	42	59	31	35	89
FLCN	140	141	141	112	124	107
FLG	0	0	0	0	0	8
FLG2	0	0	0	0	0	0
FLI1	350	339	355	362	350	355
FLII	182	174	218	132	164	139
FLNA	524	579	713	380	340	241
FLNB	37	41	58	114	57	71
FLNC	0	0	0	0	0	0
FLOT1	74	70	68	43	27	19
FLOT2	51	74	104	127	100	56
FLRT1	0	0	0	0	2	0
FLRT2	21	23	21	127	72	139
FLRT3	4	5	3	31	33	66
FLT1	17	14	9	28	27	30
FLT3	4	2	1	4	7	19
FLT3LG	0	0	1	0	2	0
FLT4	0	1	2	0	0	3
FLVCR1	38	35	44	25	52	30
FLVCR2	161	163	122	9	4	30
FLYWCH1	7	16	24	31	7	0
FLYWCH2	18	25	16	9	7	0
FMN1	36	34	39	0	4	3
FMN2	1	0	2	0	24	13

FMNL1	187	238	238	274	230	158
FMNL2	47	30	39	13	0	13
FMNL3	72	91	91	37	60	61
FMO1	4	1	0	4	7	8
FMO2	0	0	0	0	0	3
FMO3	0	0	0	0	0	0
FMO4	1	5	3	1	2	0
FMO5	5	6	11	0	2	0
FMO6P	1	0	0	0	0	0
FMO9P	0	0	0	0	0	0
FMOD	0	0	0	1	0	0
FMR1	398	335	296	351	283	369
FMR1-AS1	0	0	0	0	2	13
FMR1NB	0	0	0	0	0	3
FN1	2	1	3	9	4	8
FN3K	0	0	0	0	0	0
FN3KRP	42	40	39	19	21	13
FNBP1	1253	1218	1220	1630	1535	1495
FNBP1L	6	16	7	40	21	66
FNBP4	704	651	775	1018	859	1117
FNDC1	0	0	1	0	0	0
FNDC3A	268	225	238	143	137	210
FNDC3B	330	379	339	119	124	151
FNDC4	0	0	0	0	0	0
FNDC5	0	0	0	1	2	19
FNDC7	0	0	0	6	0	40
FNDC8	0	0	0	0	0	0
FNDC9	0	0	0	0	0	0
FNIP1	286	282	288	239	259	237
FNIP2	224	203	192	60	90	79
FNTA	139	150	136	228	225	245
FNTB	22	32	14	28	15	8
FOLH1	0	0	0	0	0	0
FOLH1B	0	0	0	0	0	0
FOLR1	0	0	0	0	0	0
FOLR2	0	0	0	0	0	0
FOLR3	0	8	2	0	0	0
FOPNL	228	217	199	215	227	192
FOS	1013	1091	606	48	69	89
FOSB	41	62	18	0	0	0
FOSL1	1	1	0	0	0	0
FOSL2	264	305	295	278	383	185
FOXA1	0	0	0	1	2	0
FOXA2	0	0	0	1	0	8
FOXA3	0	0	0	0	0	0
FOXB1	5	6	5	22	46	66
FOXB2	0	0	0	0	0	0
FOXC1	0	0	5	0	0	0
FOXC2	1	2	1	25	35	51
FOXD1	0	0	0	0	0	0
FOXD2	6	15	2	4	7	8
FOXD3	0	0	0	0	0	0
FOXD4	0	0	0	0	0	0
FOXD4L1	0	0	0	0	0	3
FOXD4L3	0	0	0	0	0	0
FOXD4L4	0	0	0	0	0	0
FOXD4L5	0	0	0	0	0	0
FOXD4L6	0	0	0	0	0	0
FOXE1	0	0	0	0	0	0
FOXE3	0	0	0	0	0	3
FOXF1	0	0	0	0	0	0
FOXF2	0	0	0	0	0	0
FOXG1	1	0	0	0	0	0
FOXH1	0	0	0	0	0	0
FOXI1	0	0	0	0	0	8
FOXI2	0	0	0	0	0	0
FOXI3	0	0	0	0	0	0
FOXJ1	0	0	0	4	7	8
FOXJ2	174	243	212	211	227	216
FOXJ3	201	165	173	309	314	312
FOXK1	215	212	277	434	429	486
FOXK2	103	107	101	169	151	162
FOXL1	0	0	0	0	0	0
FOXL2	0	0	0	0	0	0
FOXN1	0	2	0	0	2	0
FOXN1	0	0	0	0	0	0
FOXN2	283	210	257	139	153	143
FOXN3	515	505	506	385	399	352
FOXN4	0	0	0	0	0	0
FOXO1	267	317	260	414	373	397
FOXO3	111	96	84	95	67	117
FOXO3B	0	0	0	0	0	0
FOXO4	35	48	41	6	12	0
FOXP1	1333	1450	1515	2067	1890	2087
FOXP2	12	8	5	16	57	103
FOXP3	5	9	11	4	4	0
FOXP4	10	11	1	4	2	0
FOXQ1	0	0	0	0	0	0
FOXR1	0	0	0	1	0	0
FOXR2	0	0	0	0	0	0
FOXRED1	6	7	8	19	18	8
FOXRED2	21	20	15	0	0	0
FOXSI	0	0	0	0	0	0
FPGS	38	32	18	9	9	0
FPGT	45	20	31	4	15	8
FPGT-TNNI3K	5	9	9	37	33	98
FPR1	54	65	65	22	35	8
FPR2	38	43	48	1	9	8
FPR3	922	957	794	4	12	8
FRA10AC1	405	363	416	652	675	756
FRAS1	1	1	2	6	18	19
FRAT1	84	86	78	63	69	89
FRAT2	92	91	83	56	49	30

FREM1	1	0	0	4	2	0
FREM2	1	2	0	6	9	0
FREM3	6	5	5	48	35	35
FRG1	348	314	267	228	261	241
FRG2	0	0	0	0	0	0
FRG2B	0	0	0	0	0	0
FRG2C	0	0	0	0	0	0
FRK	0	0	2	1	0	0
FRMD1	0	0	0	0	0	0
FRMD3	45	34	31	76	46	147
FRMD4A	6	7	3	13	33	30
FRMD4B	101	120	88	34	75	84
FRMD5	0	0	0	0	0	0
FRMD6	4	11	5	0	0	0
FRMD7	0	0	0	0	0	0
FRMD8	268	300	208	141	214	61
FRMD8P1	0	0	0	0	0	0
FRMPD1	0	0	0	0	0	0
FRMPD2	0	0	0	0	0	0
FRMPD4	0	0	0	0	0	0
FRRS1	1	0	0	0	0	0
FRS2	100	73	90	114	117	121
FRS3	5	5	0	0	0	0
FRY	72	77	71	56	129	151
FRYL	375	322	342	404	422	415
FRZB	9	1	6	9	12	35
FSBP	1	0	0	0	0	0
FSCB	0	0	0	0	0	0
FSCN1	52	65	69	16	18	3
FSCN2	0	0	0	0	0	0
FSCN3	0	0	0	9	0	3
FSD1	0	0	0	0	0	0
FSD1L	30	16	29	22	18	8
FSD2	1	7	2	40	12	61
FSHB	0	0	0	0	0	0
FSHR	0	0	0	0	0	0
FSIP1	2	5	3	0	4	0
FSIP2	9	0	3	4	4	19
FST	6	4	3	6	4	24
FSTL1	0	2	2	0	0	0
FSTL3	2	0	0	0	0	0
FSTL4	0	0	2	0	4	0
FSTL5	0	0	0	0	0	0
FTCD	0	0	0	0	0	0
FTH1	2836	2634	2467	781	873	786
FTH1P3	0	2	0	0	2	0
FTHL17	0	0	0	0	0	0
FTL	3427	3679	4088	652	879	604
FTLP10	0	0	0	0	0	0
FTMT	0	0	0	0	0	0
FTO	63	55	42	112	72	89
FTSJ1	58	69	71	43	52	35
FTSJ3	72	69	79	76	77	112
FTX	306	277	397	311	245	372
FUBP1	933	1003	1052	1278	1164	1148
FUBP3	162	162	176	203	217	267
FUCA1	1776	1623	1694	45	24	19
FUCA2	89	74	78	0	7	24
FUK	14	14	11	34	18	3
FUNDC1	76	88	71	106	79	71
FUNDC2	41	23	16	9	54	51
FUNDC2P2	0	0	0	0	0	0
FURIN	246	268	260	369	370	419
FUS	742	809	865	791	789	708
FUT1	0	0	1	0	0	0
FUT10	10	7	7	6	4	0
FUT11	233	255	252	175	225	147
FUT2	0	0	0	0	0	3
FUT3	0	0	0	6	2	35
FUT4	63	49	53	4	12	0
FUT5	0	0	0	1	0	0
FUT6	0	0	0	0	0	0
FUT7	2	0	2	0	0	0
FUT8	55	47	34	141	131	121
FUT9	0	1	0	0	2	13
FUZ	2	4	12	1	12	3
FXN	36	35	43	28	27	8
FXR1	510	478	458	692	617	717
FXR2	51	57	54	87	113	117
FXYD1	0	0	0	0	2	0
FXYD2	1	1	0	0	4	0
FXYD3	0	0	0	0	0	0
FXYD4	0	0	0	0	0	0
FXYD5	185	227	258	343	373	271
FXYD6	9	12	12	1	0	3
FXYD6-FXYD2	0	0	0	0	0	0
FXYD7	1	7	3	19	24	19
FYCO1	48	32	39	108	87	98
FYN	926	1009	1075	2025	1871	1776
FYTTD1	419	391	348	371	503	425
FZD1	44	31	35	0	0	0
FZD10	0	0	0	0	0	0
FZD2	22	24	31	0	0	0
FZD3	50	63	74	114	166	237
FZD4	0	0	0	0	0	0
FZD5	22	11	9	0	0	3
FZD6	9	8	8	13	7	3
FZD7	11	5	8	0	2	8
FZD8	0	2	1	0	0	0
FZD9	0	0	0	0	0	0
FZR1	41	49	54	53	54	35
G0S2	23	25	23	28	54	24
G2E3	150	163	141	274	227	258

G3BP1	728	752	772	728	770	691
G3BP2	512	475	469	523	440	576
G6PC	0	0	0	0	0	0
G6PC2	0	0	0	0	0	0
G6PC3	14	13	11	0	0	0
G6PD	37	30	29	6	2	0
GAA	147	162	146	16	12	3
GAB1	22	17	26	16	21	35
GAB2	119	130	111	43	77	84
GAB3	59	63	67	56	57	75
GAB4	0	0	0	0	0	0
GABARAP	198	163	176	93	111	71
GABARAPL1	173	186	189	136	159	103
GABARAPL2	436	431	355	436	547	400
GABARAPL3	0	0	0	0	0	0
GABBR1	28	24	32	1	15	8
GABBR2	0	0	0	0	4	3
GABPA	121	90	84	149	120	132
GABPB1	74	97	89	285	214	321
GABPB2	147	194	145	155	129	151
GABRA1	2	0	0	13	0	19
GABRA2	0	0	0	6	2	0
GABRA3	0	0	0	0	0	0
GABRA4	10	4	8	25	0	35
GABRA5	0	0	0	0	0	3
GABRA6	0	0	0	0	0	0
GABRB1	1	1	2	16	15	30
GABRB2	7	7	7	22	57	75
GABRB3	0	2	0	13	12	8
GABRD	0	1	0	0	0	0
GABRE	0	0	0	0	0	0
GABRG1	0	2	2	0	0	0
GABRG2	0	9	6	22	38	103
GABRG3	0	4	1	9	4	8
GABRP	0	0	0	1	4	0
GABRQ	0	0	0	0	0	0
GABRR1	0	0	0	0	0	0
GABRR2	0	0	0	0	0	0
GABRR3	0	0	0	0	0	0
GAD1	0	0	0	0	0	0
GAD2	0	0	0	0	0	8
GADD45A	56	50	53	76	57	30
GADD45B	234	208	202	274	314	312
GADD45G	9	12	17	0	27	13
GADD45GIP1	60	69	57	45	43	13
GADL1	1	0	0	4	7	13
GAGE1	0	0	0	0	0	0
GAGE10	0	0	0	1	0	3
GAGE12B	0	0	0	0	0	0
GAGE12C	0	0	0	0	0	0
GAGE12D	0	0	0	0	0	0
GAGE12E	0	0	0	0	0	0
GAGE12F	0	0	0	0	0	0
GAGE12G	0	0	0	0	0	0
GAGE12H	0	0	0	0	0	0
GAGE12J	0	0	0	0	0	0
GAGE13	0	0	0	0	0	0
GAGE2A	0	0	0	0	0	0
GAGE2E	0	0	0	0	0	0
GAK	245	243	270	278	274	264
GAL	0	0	0	0	0	0
GAL3ST1	0	0	0	60	18	40
GAL3ST2	0	0	0	0	0	0
GAL3ST3	0	0	0	0	0	0
GAL3ST4	1	1	2	4	9	8
GALC	98	117	82	74	106	84
GALE	15	7	18	6	12	0
GALK1	30	24	26	1	0	0
GALK2	117	117	112	175	147	267
GALM	123	132	163	110	127	75
GALNS	123	104	122	28	43	8
GALNT1	364	359	299	187	208	124
GALNT10	85	67	89	93	120	132
GALNT11	165	179	113	110	127	98
GALNT12	9	11	11	0	0	0
GALNT13	1	0	0	0	0	3
GALNT14	0	0	0	0	0	0
GALNT2	142	115	145	141	144	143
GALNT3	30	28	29	25	38	46
GALNT4	0	0	0	0	0	0
GALNT5	15	15	18	76	113	136
GALNT6	29	43	30	22	33	24
GALNT7	124	127	141	108	111	46
GALNT8	0	0	0	1	0	0
GALNT9	0	0	0	0	2	0
GALNTL5	1	0	0	0	0	0
GALNTL6	1	0	0	0	0	0
GALP	0	0	0	0	0	0
GALR1	5	0	0	34	7	46
GALR2	0	0	0	0	0	0
GALR3	0	0	0	0	0	0
GALT	48	52	60	72	69	66
GAMT	5	4	5	0	4	0
GAN	76	57	76	84	77	94
GANAB	367	437	471	534	523	583
GANC	64	38	46	53	72	51
GAP43	0	0	0	1	0	13
GAPDH	687	902	985	618	946	379
GAPDHS	0	0	0	0	0	0
GAPT	153	108	119	22	21	8
GAPVD1	285	222	243	230	206	305
GAR1	132	96	107	112	100	98
GARNL3	5	0	2	4	2	8

GARS	92	96	65	134	120	136
GART	94	98	80	114	92	132
GAS1	2	6	0	1	0	0
GAS2	1	4	0	0	4	0
GAS2L1	54	52	44	4	7	3
GAS2L2	0	0	0	0	0	3
GAS2L3	23	26	30	6	4	19
GAS5	165	189	192	539	561	595
GAS6	5	9	7	4	0	8
GAS7	371	388	369	147	149	121
GAS8	4	7	9	0	0	24
GAST	0	0	0	0	0	0
GATA1	0	0	0	0	0	0
GATA2	203	193	201	79	115	66
GATA3	493	477	497	622	678	529
GATA4	0	0	0	0	0	0
GATA5	0	0	0	0	0	0
GATA6	0	0	1	0	0	0
GATAD1	111	124	115	149	79	132
GATAD2A	176	177	213	327	319	271
GATAD2B	235	239	291	404	419	428
GATC	122	125	134	112	122	40
GATM	13	11	14	0	18	19
GBA	5	1	1	0	0	0
GBA2	51	50	44	22	21	30
GBA3	0	0	0	0	0	0
GBAP1	0	0	0	0	0	0
GBE1	89	113	91	56	82	40
GBF1	52	39	41	45	41	56
GBGT1	32	31	30	4	2	3
GBP1	2508	2427	2389	489	663	853
GBP1P1	28	32	28	13	35	46
GBP2	1417	1374	1408	763	950	913
GBP3	182	158	136	129	144	136
GBP4	1092	1067	1011	659	781	889
GBP5	2056	2012	2128	872	988	1207
GBP6	6	7	6	37	7	35
GBP7	28	26	23	28	30	71
GBX1	0	0	0	0	0	0
GBX2	0	0	0	0	0	0
GC	0	0	0	0	0	0
GCA	238	216	217	43	77	46
GCAT	0	0	0	0	0	0
GCC1	94	111	87	153	183	154
GCC2	1436	1223	1280	1663	1399	1702
GCDH	19	23	40	4	15	8
GCFC2	46	34	31	22	35	8
GCG	0	0	0	4	0	0
GCGR	0	0	0	0	0	8
GCH1	286	334	279	112	129	75
GCHFR	13	9	11	9	30	19
GCK	0	0	0	0	0	0
GCKR	0	0	0	0	0	0
GCLC	214	202	210	66	79	46
GCLM	146	147	135	195	212	192
GCM1	0	0	0	19	9	19
GCM2	0	0	0	0	0	0
GCNT1	69	63	61	19	18	8
GCNT2	48	48	37	9	7	8
GCNT3	0	0	0	0	0	0
GCNT4	82	74	62	173	158	128
GCNT7	0	0	0	0	0	0
GCOM1	0	1	0	4	2	3
GCSH	4	0	5	0	4	3
GDA	2	2	1	6	9	0
GDAP1	15	28	16	51	49	79
GDAP1L1	0	0	0	0	0	0
GDAP2	104	104	97	82	87	98
GDE1	185	184	190	134	147	128
GDF1	0	0	0	0	0	0
GDF10	4	0	0	0	0	0
GDF11	37	47	51	28	30	24
GDF15	2	12	11	1	0	0
GDF2	0	0	0	0	0	0
GDF3	0	0	0	0	0	0
GDF5	0	0	0	16	12	24
GDF6	0	0	0	0	0	0
GDF7	4	5	3	25	12	56
GDF9	0	1	1	6	2	3
GDI1	40	52	59	43	65	51
GDI2	673	651	562	522	547	463
GDNF	0	1	0	0	2	0
GDPD1	12	9	12	6	0	3
GDPD2	0	0	0	0	0	0
GDPD3	14	14	8	13	12	3
GDPD4	0	0	0	0	0	0
GDPD5	12	14	18	34	35	8
GEM	0	0	0	0	0	0
GEMIN2	24	22	25	4	15	8
GEMIN4	22	28	28	34	41	13
GEMIN5	42	46	39	40	52	46
GEMIN6	29	35	18	48	24	40
GEMIN7	20	30	32	9	24	3
GEMIN8	15	11	12	4	4	0
GEMIN8P4	0	0	0	0	0	0
GEN1	29	30	42	34	38	13
GET4	0	2	1	0	7	0
GFAP	0	0	0	0	0	0
GFER	18	17	30	9	15	0
GFI1	45	74	52	119	95	98
GFI1B	0	0	1	4	2	13
GFM1	243	233	225	230	147	179
GFM2	34	31	24	22	12	24

GFOD1	126	120	140	149	151	158
GFOD2	20	29	21	34	35	46
GFPT1	157	146	141	125	117	147
GFPT2	0	2	0	1	4	0
GFRA1	1	0	0	4	4	3
GFRA2	2	2	1	22	12	8
GFRA3	0	0	0	0	0	0
GFRA4	0	0	0	0	0	0
GFRAL	0	0	0	0	0	0
GGA1	122	139	167	125	162	128
GGA2	177	189	178	187	185	188
GGA3	88	98	97	98	82	84
GGCT	98	115	79	43	52	46
GGCX	55	42	51	13	15	0
GGH	22	31	35	1	4	0
GGN	0	0	0	0	0	0
GGNBP1	0	0	0	0	0	0
GGNBP2	816	861	955	986	902	1009
GGPS1	100	82	77	106	77	79
GGT1	4	4	2	4	2	3
GGT3P	0	0	0	0	0	0
GGT5	0	7	6	0	0	0
GGT6	0	0	0	0	0	0
GGT7	4	7	11	0	4	0
GGT8P	0	0	0	0	0	0
GGTA1P	15	21	7	6	0	0
GGTLC1	0	0	0	0	0	0
GGTLC2	0	0	0	0	0	0
GH1	0	0	0	0	0	0
GH2	0	0	0	0	0	0
GHDC	12	11	17	19	15	19
GHITM	630	677	589	560	637	501
GHR	2	0	5	0	0	3
GHRH	0	0	0	0	0	0
GHRHR	0	0	0	0	0	0
GHRL	1	0	0	0	0	8
GHRLOS	2	6	3	25	0	3
GHSR	0	0	0	0	0	0
GIF	0	0	0	0	0	0
GIGYF1	147	209	172	127	131	79
GIGYF2	495	478	488	741	646	743
GIMAP1	288	300	316	483	577	422
GIMAP2	282	247	281	323	376	343
GIMAP4	699	633	730	779	848	770
GIMAP5	36	38	55	114	72	89
GIMAP6	209	182	171	409	413	288
GIMAP7	1202	1284	1380	1861	1967	1883
GIMAP8	147	168	173	393	319	438
GIN1	52	42	45	56	100	79
GIN51	12	11	5	0	2	8
GIN52	1	0	1	9	2	40
GIN53	22	20	11	19	2	8
GIN54	9	15	8	13	4	3
GIP	0	0	0	0	0	0
GIPC1	21	43	53	43	54	24
GIPC2	0	0	0	0	0	8
GIPC3	0	1	3	4	2	0
GIPR	7	7	13	1	0	0
GIT1	28	28	25	37	30	24
GIT2	319	340	404	243	242	297
GJA1	0	0	0	0	0	0
GJA10	0	0	0	0	0	0
GJA3	4	0	0	0	0	0
GJA4	0	0	0	0	0	0
GJA5	0	0	0	0	0	0
GJA8	0	0	0	4	2	0
GJA9	0	0	0	0	0	0
GJB1	0	0	0	0	0	0
GJB2	6	8	8	0	4	0
GJB3	0	0	0	0	0	0
GJB4	0	0	0	0	0	0
GJB5	0	0	0	0	0	0
GJB6	1	0	0	13	2	8
GJB7	1	2	2	9	18	35
GJC1	0	5	2	28	18	35
GJC2	0	1	0	22	12	24
GJC3	0	0	0	0	0	0
GJD2	0	0	0	0	0	0
GJD3	0	0	0	0	0	0
GJD4	0	0	0	1	2	8
GK	110	104	130	34	30	24
GK2	4	1	1	6	0	19
GK3P	0	0	0	0	0	0
GK5	93	91	101	110	95	66
GKAP1	106	84	105	103	133	94
GKN1	5	0	1	4	9	0
GKN2	0	0	0	0	0	0
GLA	114	77	90	6	33	0
GLB1	252	349	340	82	79	103
GLB1L	0	0	0	0	0	8
GLB1L2	0	0	0	0	0	0
GLB1L3	2	1	0	0	4	0
GLCC1	281	315	305	470	426	540
GLCE	25	17	20	0	2	0
GLDC	1	0	3	0	0	0
GLDN	0	0	0	0	0	0
GLE1	130	132	168	167	140	147
GLG1	622	692	605	638	701	543
GLI1	4	1	1	6	2	0
GLI2	0	0	0	0	0	0
GLI3	6	1	3	6	12	66
GLI4	1	7	2	0	2	0
GLIPR1	655	657	614	261	272	182

GLIPR1L1	0	0	0	0	0	0
GLIPR1L2	7	7	12	40	49	103
GLIPR2	294	293	279	72	106	79
GLIS1	0	0	0	0	0	0
GLIS2	0	1	1	0	4	0
GLIS3	0	0	3	19	21	30
GLIS3-AS1	0	0	0	0	0	0
GLMN	63	43	46	72	43	61
GLO1	179	181	189	184	195	230
GLOD4	177	184	154	252	263	207
GLOD5	0	0	0	0	0	0
GLP1R	0	0	0	0	0	0
GLP2R	0	0	0	1	0	0
GLRA1	0	0	0	0	0	0
GLRA2	1	0	0	0	0	0
GLRA3	0	2	1	0	0	24
GLRA4	0	0	0	0	0	0
GLRB	0	0	0	0	0	0
GLRX	296	285	222	69	120	121
GLRX2	150	141	138	90	87	94
GLRX3	88	88	87	93	108	94
GLRX5	162	173	172	169	181	147
GLS	681	666	712	489	488	505
GLS2	0	2	1	0	4	8
GLT1D1	51	63	41	1	2	0
GLT6D1	0	0	0	0	0	3
GLT8D1	55	40	74	63	54	51
GLT8D2	0	0	0	0	0	3
GLTP	42	35	42	34	35	19
GLTPD2	0	0	0	0	0	0
GLUD1	152	151	136	114	137	46
GLUD2	6	2	3	1	0	0
GLUL	1082	1125	982	95	124	94
GLYAT	0	0	0	0	0	0
GLYATL1	0	0	1	4	0	3
GLYATL2	0	0	0	0	0	0
GLYATL3	0	0	0	0	0	0
GLYCAM1	0	0	0	0	0	0
GLYCTK	6	6	1	0	0	0
GLYR1	261	210	201	276	225	220
GM2A	335	307	309	40	35	19
GMCL1	255	200	210	276	265	237
GMDS	23	25	26	9	9	3
GMEB1	139	179	164	175	170	188
GMEB2	102	109	80	134	151	132
GMFB	89	98	98	43	67	40
GMFG	244	289	248	201	219	185
GMIP	80	80	51	45	60	40
GML	0	0	0	0	0	0
GMNC	1	0	0	0	0	0
GMNN	32	37	36	9	12	0
GMPPA	21	20	20	0	9	0
GMPPB	21	25	21	0	2	0
GMPR	0	1	1	0	0	0
GMPR2	99	93	78	82	82	56
GMPS	92	81	74	134	124	79
GNA11	26	26	29	19	30	24
GNA12	215	231	187	108	120	75
GNA13	253	276	285	199	249	294
GNA14	0	1	0	0	0	0
GNA15	41	52	34	4	21	3
GNAI1	4	0	5	6	2	19
GNAI2	750	799	837	331	378	329
GNAI3	458	515	466	504	532	579
GNAL	19	13	11	25	30	30
GNAO1	17	6	16	13	12	0
GNAQ	447	382	411	224	225	251
GNAS	736	748	732	683	735	658
GNAS-AS1	0	0	0	0	0	0
GNAT1	0	0	0	0	0	0
GNAT2	0	0	0	0	0	0
GNAT3	0	1	0	0	0	0
GNAZ	1	0	3	1	0	3
GNB1	929	890	912	861	758	857
GNB1L	15	13	9	25	30	8
GNB2	129	195	173	74	82	71
GNB3	0	1	0	0	0	0
GNB4	365	363	317	13	52	40
GNB5	87	73	69	74	87	71
GNE	51	41	42	34	43	19
GNG10	17	19	29	16	9	8
GNG11	29	25	18	72	43	75
GNG12	0	0	0	0	0	0
GNG13	0	0	0	0	0	0
GNG2	297	241	252	483	443	419
GNG3	0	0	0	0	0	0
GNG4	4	1	3	31	27	13
GNG5	70	77	87	60	18	30
GNG7	41	47	52	95	106	71
GNG8	0	0	0	0	2	0
GNGT1	0	0	0	1	4	0
GNGT2	15	14	12	4	4	8
GNL1	58	65	87	169	122	224
GNL2	241	223	215	129	135	147
GNL3	182	127	115	274	251	329
GNL3L	25	28	42	22	27	8
GNLY	286	318	287	583	736	425
GNMT	1	0	0	6	7	13
GNPAT	99	98	105	121	120	176
GNPDA1	253	317	285	147	170	128
GNPDA2	51	41	52	51	41	56
GNPNAT1	90	74	84	31	35	30
GNPTAB	303	259	302	151	149	162

GNPTG	154	174	179	69	111	51
GNRH1	14	8	15	13	15	30
GNRH2	0	0	0	0	0	0
GNRHR	0	0	0	0	0	0
GNRHR2	0	0	0	0	0	0
GN5	385	446	348	60	43	46
GOLGA1	140	137	146	182	162	151
GOLGA2	188	234	217	159	158	179
GOLGA2P2Y	0	0	0	0	0	0
GOLGA2P3Y	0	0	0	0	0	0
GOLGA2P5	29	32	42	63	43	24
GOLGA3	288	269	235	345	302	369
GOLGA4	1020	820	949	841	794	815
GOLGA5	103	87	116	114	82	75
GOLGA6A	0	0	0	0	0	0
GOLGA6B	0	0	0	0	0	0
GOLGA6C	0	0	0	0	0	0
GOLGA6D	0	0	0	0	0	0
GOLGA6L1	0	0	0	0	0	0
GOLGA6L10	1	0	0	4	7	0
GOLGA6L6	0	0	0	0	0	0
GOLGA6L9	7	12	7	9	4	0
GOLGA7	497	493	404	525	503	503
GOLGA7B	7	11	2	63	24	79
GOLGA8A	371	414	473	397	338	329
GOLGA8B	246	231	283	276	203	271
GOLGA8DP	0	0	0	0	0	0
GOLGA8F	0	0	0	0	0	0
GOLGA8G	0	0	0	0	0	0
GOLGB1	583	523	535	752	601	753
GOLIM4	250	206	217	25	46	75
GOLM1	17	12	12	1	2	8
GOLPH3	314	314	314	302	281	329
GOLPH3L	67	81	71	119	97	117
GOLT1A	0	0	0	0	0	0
GOLT1B	157	152	129	106	120	107
GON4L	144	134	192	232	240	258
GOPC	233	220	241	404	323	317
GORA8	55	45	61	37	52	61
GORASP1	55	33	39	16	4	19
GORASP2	222	195	162	207	268	314
GOSR1	202	191	214	377	297	359
GOSR2	88	105	117	136	129	162
GOT1	47	30	25	43	67	84
GOT1L1	0	0	0	0	0	3
GOT2	67	65	72	167	149	139
GP1BA	5	0	1	9	0	0
GP1BB	0	0	0	0	0	0
GP2	0	0	0	0	0	0
GP5	5	0	2	4	7	0
GP6	1	0	0	4	2	0
GP9	0	0	0	0	0	0
GPA33	9	12	16	28	24	0
GPAA1	40	46	43	37	33	13
GPAM	48	54	59	84	117	158
GPANK1	66	74	72	153	131	128
GPAT2	0	0	0	0	0	0
GPATCH1	52	52	52	74	69	75
GPATCH2	97	97	95	167	133	162
GPATCH3	19	24	17	25	35	24
GPATCH4	144	111	138	149	164	162
GPATCH8	324	255	364	422	407	495
GPBAR1	5	0	0	0	0	0
GPBP1	891	790	846	1122	979	1263
GPBP1L1	416	416	371	560	485	550
GPC1	0	1	0	0	0	0
GPC2	2	7	3	13	0	19
GPC3	0	0	1	0	0	0
GPC4	4	0	0	0	0	0
GPC5	0	0	0	0	0	0
GPC6	0	0	2	9	15	19
GPCPD1	402	417	410	327	359	321
GPD1	0	0	0	0	0	0
GPD1L	52	65	66	43	46	8
GPD2	195	198	182	66	54	35
GPHA2	0	0	0	0	0	0
GPHB5	0	0	0	0	0	0
GPHN	18	14	14	31	46	40
GPI	334	383	342	259	367	203
GPIHBP1	0	0	0	0	0	0
GPKOW	30	24	25	25	27	0
GPLD1	4	8	8	43	41	35
GPM6A	9	4	0	9	4	19
GPM6B	6	5	8	40	27	56
GPN1	196	217	243	139	147	151
GPN2	38	40	23	98	62	75
GPN3	79	83	65	45	30	94
GPNUMB	1005	1070	809	22	18	13
GPR1	0	0	0	0	2	0
GPR101	0	0	0	0	0	0
GPR107	191	227	270	217	257	249
GPR108	36	35	36	6	9	8
GPR119	0	0	0	0	0	0
GPR12	0	0	0	1	0	0
GPR132	52	39	44	63	67	107
GPR135	1	0	1	4	0	0
GPR137	13	13	14	19	4	13
GPR137B	48	47	42	22	54	30
GPR137C	9	15	12	60	41	139
GPR139	0	0	0	0	0	0
GPR141	15	7	12	0	0	3
GPR142	0	0	0	0	0	0
GPR143	0	0	0	0	0	0

GPR146	19	4	9	1	18	13
GPR148	0	0	0	0	0	0
GPR149	0	0	0	0	0	0
GPR15	1	2	0	0	2	0
GPR150	2	0	0	0	0	0
GPR151	0	0	0	0	0	0
GPR152	0	0	0	0	0	0
GPR153	14	13	9	4	9	0
GPR155	159	147	195	436	295	537
GPR156	0	0	0	0	0	0
GPR157	35	45	36	1	7	0
GPR158	0	0	0	0	0	3
GPR160	38	40	34	6	24	0
GPR161	6	4	9	0	4	24
GPR162	7	8	11	0	0	0
GPR17	0	0	0	0	0	0
GPR171	297	220	254	404	391	325
GPR173	0	0	0	0	0	0
GPR174	109	108	116	217	208	203
GPR176	0	0	0	0	0	0
GPR179	0	0	0	0	0	0
GPR18	42	37	36	51	79	66
GPR180	96	80	99	66	77	46
GPR182	0	0	0	0	0	0
GPR183	429	411	366	351	410	343
GPR19	1	2	6	9	4	51
GPR20	0	1	0	0	9	0
GPR21	0	0	0	0	0	0
GPR22	2	1	2	1	2	3
GPR25	0	0	0	0	0	0
GPR26	0	0	1	1	4	3
GPR27	14	14	16	19	7	13
GPR3	0	0	0	0	0	0
GPR31	0	0	0	0	0	0
GPR32	0	0	0	0	0	0
GPR33	0	0	0	0	0	0
GPR34	15	5	7	0	4	0
GPR35	6	4	2	1	7	0
GPR37	0	0	0	1	0	8
GPR37L1	0	0	0	0	0	0
GPR39	0	0	0	0	0	0
GPR4	0	0	0	0	0	0
GPR45	0	0	0	0	0	0
GPR50	0	0	0	0	0	0
GPR52	0	0	0	0	0	0
GPR55	4	6	8	0	7	3
GPR6	0	0	0	0	0	0
GPR61	2	0	0	0	0	19
GPR62	0	0	0	0	0	0
GPR63	1	0	3	0	2	0
GPR65	545	459	428	380	459	332
GPR68	62	77	84	66	84	98
GPR75	0	0	0	0	0	0
GPR75-ASB3	0	0	0	0	0	0
GPR78	0	0	0	0	0	0
GPR82	1	6	0	0	2	0
GPR83	1	0	0	0	2	13
GPR84	12	19	18	0	0	0
GPR85	1	2	1	19	24	35
GPR87	0	0	0	0	0	0
GPR88	0	0	0	4	0	0
GPR89A	11	6	1	6	9	3
GPR89B	15	8	9	0	4	0
GPRASP1	96	96	109	157	111	158
GPRASP2	9	6	2	0	2	0
GPRCSA	0	0	0	9	12	8
GPRCSB	2	0	1	0	0	0
GPRCSC	0	0	0	1	0	0
GPRCSD	0	0	0	0	0	0
GPRCGA	0	0	0	0	0	0
GPRIN1	0	0	0	0	0	0
GPRIN2	0	0	0	0	0	0
GPRIN3	196	206	186	412	292	340
GPS1	26	24	39	43	7	19
GPS2	45	52	54	76	106	117
GPSM1	10	8	6	4	2	0
GPSM2	18	22	22	43	79	94
GPSM3	196	268	364	280	376	279
GPT	0	0	0	0	0	0
GPT2	7	4	2	6	18	24
GPX1	381	355	351	48	33	19
GPX2	0	0	0	0	0	0
GPX3	0	0	6	0	0	0
GPX4	189	187	204	72	87	79
GPX5	0	0	0	0	0	0
GPX6	0	0	0	0	0	0
GPX7	10	20	24	25	15	8
GPX8	1	0	0	0	0	0
GRAMD1A	88	76	113	143	155	117
GRAMD1B	14	11	16	9	18	8
GRAMD1C	10	7	5	1	7	35
GRAMD4	106	87	79	28	12	8
GRAP	28	26	24	72	38	51
GRAP2	122	146	158	187	177	117
GRAPL	0	0	0	0	0	0
GRASP	9	7	17	13	2	0
GRB10	11	16	2	1	0	3
GRB14	0	1	1	0	2	8
GRB2	1230	1307	1424	734	789	756
GRB7	0	0	0	0	2	0
GREB1	1	2	0	4	0	0
GREB1L	0	0	0	1	2	3
GREM1	7	7	5	19	12	24

GREM2	19	16	13	84	54	117
GRHL1	0	5	1	4	4	35
GRHL2	0	0	0	0	0	0
GRHL3	0	0	0	1	0	0
GRHPR	84	81	103	58	75	30
GRIA1	0	0	0	0	2	0
GRIA2	1	1	1	4	7	30
GRIA3	1	0	0	4	7	3
GRIA4	7	5	5	4	9	8
GRID1	0	0	0	0	0	0
GRID2	2	0	0	1	2	8
GRID2IP	0	0	0	0	0	0
GRIK1	0	1	3	13	18	66
GRIK1-AS1	0	0	0	0	2	3
GRIK2	0	0	0	0	0	0
GRIK3	0	0	0	0	0	0
GRIK4	0	0	0	0	0	3
GRIK5	0	0	0	0	0	0
GRIN1	0	0	0	0	0	0
GRIN2A	7	9	1	25	35	35
GRIN2B	7	8	1	40	21	66
GRIN2C	0	0	0	0	0	0
GRIN2D	0	1	0	0	0	0
GRIN3A	34	15	26	0	0	0
GRIN3B	0	0	0	0	0	0
GRINA	349	421	494	69	87	79
GRIP1	10	4	7	19	35	35
GRIP2	0	0	0	1	2	0
GRIPA1	154	154	162	163	187	169
GRK1	0	0	0	0	0	0
GRK4	5	9	12	53	33	117
GRK5	95	122	111	190	191	233
GRK6	75	84	72	22	46	0
GRK7	0	0	0	4	4	35
GRM1	0	0	0	0	12	3
GRM2	0	0	0	4	0	0
GRM3	4	4	2	19	12	8
GRM4	0	0	0	6	12	3
GRM5	0	0	0	0	0	0
GRM6	0	0	0	0	2	0
GRM7	2	0	0	0	4	3
GRM8	0	1	1	0	0	3
GRN	1060	1197	1284	66	82	30
GRP	0	0	0	0	0	0
GRPEL1	167	167	169	167	212	207
GRPEL2	28	28	35	53	72	103
GRPR	0	0	0	0	0	0
GRSF1	423	462	348	366	359	343
GRTP1	0	0	0	1	0	0
GRWD1	39	32	41	48	49	61
GRXCR1	0	0	0	0	0	0
GRXCR2	0	0	0	0	0	0
GSC	0	0	0	1	0	0
GSC2	0	0	0	0	0	0
GSDMA	0	0	0	0	0	0
GSDMB	28	26	28	58	41	75
GSDMC	0	0	0	4	2	8
GSDMD	46	39	53	37	46	13
GSG1	0	1	0	4	9	13
GSG1L	0	0	0	1	0	0
GSK3A	31	38	40	48	35	24
GSK3B	213	204	208	155	195	147
GSN	407	449	406	22	43	3
GSPT1	456	425	455	552	587	636
GSPT2	35	29	36	53	33	46
GSR	387	404	393	199	230	254
GSS	42	58	51	66	75	84
GSTA1	1	0	0	0	0	0
GSTA2	0	0	0	0	0	0
GSTA3	0	0	0	0	0	0
GSTA4	1	0	0	0	0	0
GSTA5	0	0	0	0	0	0
GSTA7P	0	0	0	0	0	0
GSTCD	23	21	13	25	24	24
GSTK1	227	186	198	177	187	147
GSTM1	0	0	0	0	0	0
GSTM2	0	0	0	0	0	0
GSTM2P1	0	0	0	0	0	0
GSTM3	12	9	6	6	24	3
GSTM4	7	12	6	6	9	0
GSTM5	0	0	0	0	0	0
GSTO1	294	310	314	106	131	75
GSTO2	1	0	0	16	21	40
GSTP1	475	655	679	203	225	136
GSTT2	0	0	0	0	0	0
GSTT2B	0	0	0	0	0	0
GSTZ1	30	49	47	58	38	61
GSK1	0	0	0	0	0	0
GSK2	0	0	0	0	0	0
GTDC1	76	67	71	84	67	75
GTF2A1	427	399	337	566	544	621
GTF2A1L	0	0	0	0	0	0
GTF2A2	140	148	134	87	149	98
GTF2B	100	98	107	132	142	165
GTF2E1	85	83	106	145	131	79
GTF2E2	92	121	115	100	90	98
GTF2F1	64	62	111	129	133	94
GTF2F2	176	155	115	119	120	139
GTF2H1	145	107	84	228	168	233
GTF2H2	7	17	7	0	0	0
GTF2H2B	0	4	2	6	0	3
GTF2H2C	9	1	5	4	4	0
GTF2H3	129	128	164	165	179	154

GTF2H4	0	0	0	0	0	0
GTF2H5	186	170	185	143	147	136
GTF2I	35	29	42	48	9	66
GTF2IP1	0	0	0	0	0	0
GTF2IRD1	14	14	9	13	27	35
GTF2IRD2	11	6	11	16	2	19
GTF2IRD2B	0	1	1	0	0	0
GTF2IRD2P1	0	0	0	1	0	0
GTF3A	217	229	189	432	407	343
GTF3C1	85	102	76	103	103	103
GTF3C2	72	63	93	76	103	61
GTF3C3	137	133	119	190	137	128
GTF3C4	160	146	177	290	279	251
GTF3C5	42	38	30	48	54	56
GTF3C6	153	153	145	51	65	19
GTPBP1	60	47	58	60	33	3
GTPBP10	59	45	57	123	115	128
GTPBP2	66	88	109	51	62	35
GTPBP3	34	43	54	37	30	13
GTPBP4	316	291	268	495	450	647
GTPBP6	30	22	40	22	41	3
GTPBP8	90	96	122	74	100	98
GTSE1	2	1	1	0	12	8
GTSF1	1	4	0	0	4	0
GTSF1L	0	0	0	0	0	0
GUCA1A	0	0	0	0	0	0
GUCA1B	0	0	0	0	2	0
GUCA1C	0	0	0	0	0	0
GUCA2A	0	0	0	0	0	0
GUCA2B	0	0	0	0	0	0
GUCY1A2	25	24	32	95	84	213
GUCY1B2	0	0	0	0	0	0
GUCY2C	1	0	0	9	4	13
GUCY2D	0	0	0	0	0	0
GUCY2F	0	2	0	0	0	0
GUCY2GP	0	0	0	0	0	0
GUF1	49	47	46	53	84	139
GUK1	146	175	169	180	206	185
GULP1	20	20	17	90	122	207
GUSB	70	84	90	66	69	61
GUSBP1	14	13	15	34	35	40
GUSBP10	0	0	0	0	0	0
GUSBP11	0	2	1	6	4	0
GUSBP2	0	0	1	0	0	3
GUSBP3	0	0	0	0	0	0
GUSBP4	0	0	0	0	0	0
GUSBP5	0	2	0	0	0	0
GUSBP9	0	0	0	0	0	0
GVINP1	178	143	175	207	193	254
GXYLT1	189	194	185	129	155	136
GXYLT2	2	0	3	1	0	13
GYG1	89	77	69	48	49	24
GYG2	0	0	0	0	0	0
GYG2P1	0	0	0	0	0	0
GYP A	4	0	3	6	15	19
GYPB	0	1	0	0	0	0
GYP C	150	190	197	402	367	385
GYPE	0	0	0	0	2	0
GYS1	54	56	82	56	43	40
GYS2	0	0	0	0	0	0
GZF1	23	17	22	6	12	13
GZMA	459	417	422	446	560	332
GZMB	124	127	144	161	297	151
GZMH	129	167	185	215	254	192
GZMK	238	225	232	397	413	393
GZMM	6	4	9	0	0	0
H19	0	0	0	0	0	0
H1F0	68	60	57	1	4	24
H1FNT	0	0	0	0	0	0
H1FOO	0	0	0	0	0	0
H1FX	338	342	417	141	137	112
H1FX-AS1	0	0	0	0	0	0
H2AFB1	0	0	0	0	0	0
H2AFB2	0	0	0	0	0	0
H2AFB3	0	0	0	0	0	0
H2AFJ	39	31	48	63	35	79
H2AFV	484	493	486	387	373	279
H2AFX	48	28	54	48	46	19
H2AFY	1296	1271	1202	461	419	472
H2AFY2	17	16	14	22	0	0
H2AFZ	704	670	579	638	701	595
H2BFM	0	0	0	0	0	0
H2BFWT	0	0	0	0	0	0
H3F3A	67	55	65	79	60	94
H3F3AP4	0	0	0	0	0	0
H3F3B	3850	3529	3380	1488	1688	1515
H3F3C	4	2	3	1	4	0
H6PD	54	45	57	25	27	13
HAAO	0	0	0	0	0	0
HABP2	0	0	0	0	0	0
HABP4	85	100	80	190	219	185
HACE1	48	46	55	76	54	79
HACL1	31	33	15	45	38	35
HADH	54	65	43	51	54	30
HADHA	302	312	276	293	277	288
HADHB	252	286	240	211	230	179
HAGH	145	150	146	132	115	89
HAGHL	1	5	8	1	0	0
HAL	5	6	3	13	4	8
HAMP	1	0	0	6	2	24
HAND1	0	0	0	0	0	0
HAND2	0	0	0	9	0	0
HAO1	0	0	0	0	0	0

HAO2	0	0	0	0	0	0
HAP1	0	0	0	0	0	0
HAPLN1	13	11	12	31	57	139
HAPLN2	0	0	0	0	0	0
HAPLN3	51	76	90	106	108	169
HAPLN4	0	0	0	0	0	0
HAR1A	2	4	9	1	7	3
HAR1B	0	0	0	0	2	0
HARBI1	7	8	7	4	9	3
HARS	44	46	47	51	38	19
HARS2	79	52	66	100	113	56
HAS1	0	0	0	0	0	0
HAS2	1	0	0	0	4	8
HAS2-AS1	2	0	0	0	0	3
HAS3	0	0	2	28	18	8
HAT1	127	100	95	87	103	124
HAUS1	41	45	47	43	49	35
HAUS2	72	117	89	45	84	94
HAUS3	132	118	109	143	124	143
HAUS4	62	71	62	34	72	51
HAUS5	20	16	21	13	2	24
HAUS6	100	113	111	206	168	291
HAUS7	34	21	40	13	18	40
HAUS8	32	17	28	25	9	3
HAVCR1	0	0	0	0	0	0
HAVCR2	160	132	146	9	38	0
HAX1	144	173	151	209	214	196
HBA1	154	42	90	161	127	478
HBA2	282	130	370	356	382	809
HBB	270	113	177	219	272	704
HBBP1	0	0	0	0	0	0
HBD	0	0	1	0	0	0
HBE1	0	0	0	0	0	0
HBEGF	79	109	87	63	82	89
HBG1	0	0	0	0	0	0
HBG2	5	0	5	0	0	13
HBM	0	1	5	4	0	8
HBP1	257	255	263	345	370	432
HBQ1	0	0	0	0	0	0
HBS1L	100	114	122	167	197	216
HBZ	0	0	0	0	0	0
HCAR1	0	0	0	0	0	0
HCAR2	28	19	15	1	4	0
HCAR3	31	40	28	9	12	3
HCCS	133	124	138	143	140	151
HCFC1	419	451	430	470	387	456
HCFC1R1	30	38	29	16	7	0
HCFC2	158	109	141	98	84	112
HCG11	44	56	47	34	60	46
HCG18	142	137	183	288	268	267
HCG22	0	0	0	0	2	0
HCG23	4	5	8	37	30	56
HCG25	0	0	0	0	0	3
HCG27	0	4	2	1	2	13
HCG4	0	0	0	0	0	0
HCG4B	0	0	0	0	0	0
HCG9	0	0	0	1	0	13
HCK	269	258	283	9	35	3
HCLS1	635	719	670	831	791	723
HCN1	0	1	0	0	2	3
HCN2	0	1	0	0	0	0
HCN3	2	1	0	0	0	0
HCN4	0	0	0	0	0	0
HCP5	124	122	138	139	172	117
HCRT	0	0	0	0	0	0
HCRTR1	0	0	0	0	0	0
HCRTR2	0	0	0	0	0	0
H CST	155	194	197	139	131	128
HDAC1	192	213	198	304	290	241
HDAC10	10	12	15	4	15	13
HDAC11	4	7	6	0	0	0
HDAC2	281	282	309	268	345	279
HDAC3	169	187	141	125	129	154
HDAC4	90	91	120	149	106	94
HDAC5	26	22	32	4	7	3
HDAC6	80	80	99	76	75	46
HDAC7	261	316	319	339	343	335
HDAC8	60	61	77	48	57	79
HDAC9	37	43	40	114	131	117
HDC	45	37	42	37	49	24
HDDC2	69	72	42	117	92	98
HDDC3	35	47	41	66	52	56
HDGF	517	530	595	416	491	486
HDGFL1	0	0	0	0	0	0
HDHD2	72	68	60	84	69	66
HDHD3	6	5	12	4	7	0
HDLBP	302	277	278	313	281	294
HDX	7	11	14	9	4	3
HEATR1	114	109	96	151	113	169
HEATR3	111	98	99	31	30	24
HEATR4	0	0	1	6	21	40
HEATR5A	74	87	79	40	30	66
HEATR5B	96	69	79	165	155	151
HEATR6	61	66	84	13	21	40
HEBP1	200	194	217	45	30	30
HEBP2	198	184	148	84	127	89
HECA	702	640	686	827	765	768
HECTD1	444	404	511	476	438	411
HECTD2	12	5	14	6	12	8
HECTD3	14	30	44	6	9	3
HECW1	0	4	3	6	12	3
HECW2	5	2	2	22	15	61
HEG1	132	111	138	193	199	207

HELB	137	155	206	171	151	210
HELLS	59	71	65	66	72	79
HELQ	49	66	57	82	92	71
HELT	0	0	0	0	0	0
HELZ	463	440	468	452	395	490
HEMGN	25	20	24	72	33	139
HEMK1	50	60	74	132	115	169
HENMT1	49	48	53	16	38	19
HEPACAM	0	0	0	0	0	0
HEPACAM2	0	0	0	0	0	13
HEPH	0	0	0	0	7	3
HEPHL1	1	0	1	6	0	19
HEPN1	0	0	0	0	0	0
HERC1	367	322	391	406	422	493
HERC2	150	108	176	209	147	192
HERC2P2	38	23	24	66	35	40
HERC2P3	5	1	1	6	12	19
HERC2P4	0	0	0	0	0	0
HERC2P7	0	0	0	0	0	0
HERC2P9	14	8	11	6	7	3
HERC3	146	142	162	106	124	112
HERC4	201	214	235	239	187	264
HERC5	162	120	133	121	111	117
HERC6	18	15	15	56	24	30
HERPUD1	669	568	615	495	493	499
HERPUD2	361	407	423	470	517	508
HES1	9	5	2	16	9	40
HES2	0	0	0	6	2	3
HES3	0	0	0	0	0	0
HES4	0	0	0	0	0	0
HES5	0	0	0	0	0	3
HES6	2	6	5	0	2	0
HES7	0	0	0	0	0	0
HESX1	2	4	0	1	0	3
HEXA	144	162	179	153	153	188
HEXB	524	582	478	149	162	121
HEXDC	37	33	48	25	18	0
HEXIM1	341	395	309	136	189	136
HEXIM2	4	4	0	1	2	0
HEY1	0	0	0	0	0	0
HEY2	0	0	1	0	0	0
HEYL	0	0	0	0	0	0
HFE	30	24	7	0	2	0
HFM1	1	1	0	6	4	13
HGD	1	2	2	6	4	8
HGF	14	21	12	1	7	19
HGFAC	0	0	0	0	0	0
HGS	50	55	52	45	57	66
HGSNAT	173	163	122	127	133	124
HHAT	37	25	35	76	103	154
HHATL	0	0	0	0	0	0
HHEX	114	117	124	60	75	46
HHIP	6	8	3	69	24	56
HHIPL1	0	0	0	4	0	3
HHIPL2	0	0	0	0	0	0
HHLA1	0	0	0	0	0	0
HHLA2	0	0	0	0	0	0
HHLA3	2	2	3	1	4	0
HIBADH	24	32	36	6	18	8
HIBCH	92	73	98	100	82	71
HIC1	24	23	21	37	49	51
HIC2	80	93	103	72	77	103
HIF1A	592	562	584	833	891	956
HIF1A-AS2	6	7	2	6	12	51
HIF1AN	143	157	155	155	199	147
HIF3A	1	4	0	4	18	8
HIGD1A	133	106	87	60	41	35
HIGD1B	0	0	0	0	0	0
HIGD1C	0	0	0	0	0	0
HIGD2A	100	111	119	106	133	98
HIGD2B	0	0	0	0	0	0
HILPDA	30	37	28	1	15	3
HILS1	0	0	0	0	0	0
HINFP	26	23	24	37	41	24
HINT1	1410	1469	1160	2274	2445	2322
HINT2	0	0	1	1	0	0
HINT3	96	86	79	63	69	46
HIP1	72	93	84	19	27	13
HIP1R	10	12	15	13	24	51
HIPK1	423	431	464	655	520	663
HIPK2	605	613	628	665	701	729
HIPK3	566	551	527	583	556	518
HIPK4	0	0	0	0	0	0
HIRA	9	11	13	16	15	24
HIRIP3	11	4	11	19	15	13
HIST1H1A	0	0	0	0	0	0
HIST1H1B	0	0	0	0	0	0
HIST1H1C	117	98	68	34	30	19
HIST1H1D	40	29	37	0	15	19
HIST1H1E	23	16	14	4	7	0
HIST1H1T	0	0	0	0	0	0
HIST1H2AA	0	0	0	0	0	0
HIST1H2AB	0	0	0	0	2	0
HIST1H2AC	61	61	46	84	108	84
HIST1H2AD	0	0	0	0	0	0
HIST1H2AE	2	6	5	0	2	3
HIST1H2AG	4	4	2	1	7	13
HIST1H2AH	0	0	0	0	0	0
HIST1H2AI	0	0	0	0	0	0
HIST1H2AJ	0	0	0	0	0	0
HIST1H2AK	0	0	0	0	0	0
HIST1H2AL	0	0	0	0	0	0
HIST1H2AM	0	1	0	0	0	0

HIST1H2APS1	0	0	0	0	0	0
HIST1H2BA	0	0	0	0	0	0
HIST1H2BB	0	0	0	0	0	0
HIST1H2BC	2	7	6	6	0	0
HIST1H2BD	22	13	21	43	7	35
HIST1H2BE	0	0	0	6	2	0
HIST1H2BF	0	0	0	1	2	8
HIST1H2BG	2	4	1	31	4	19
HIST1H2BH	2	2	1	0	7	13
HIST1H2BI	0	0	0	0	0	0
HIST1H2BJ	4	2	7	6	7	3
HIST1H2BK	1	0	0	0	0	0
HIST1H2BL	0	0	0	0	0	0
HIST1H2BM	0	0	0	0	0	0
HIST1H2BN	5	2	0	4	0	3
HIST1H2BO	0	0	0	0	0	0
HIST1H3A	0	0	0	0	4	0
HIST1H3B	0	0	0	0	0	0
HIST1H3C	0	0	0	0	0	0
HIST1H3D	0	0	0	0	0	0
HIST1H3E	1	0	5	0	0	0
HIST1H3F	0	0	0	0	0	0
HIST1H3G	0	0	0	0	0	0
HIST1H3H	23	21	17	19	57	46
HIST1H3I	0	0	0	0	0	0
HIST1H3J	0	0	0	0	0	0
HIST1H4A	0	0	0	0	0	0
HIST1H4B	0	0	0	4	9	0
HIST1H4C	522	409	416	430	601	415
HIST1H4D	0	1	0	0	0	0
HIST1H4E	1	0	0	1	2	0
HIST1H4F	0	0	0	0	4	0
HIST1H4G	0	0	0	0	0	0
HIST1H4H	14	17	18	43	49	79
HIST1H4I	0	0	0	4	0	3
HIST1H4J	0	1	2	1	7	0
HIST1H4K	0	0	0	0	0	0
HIST1H4L	0	0	0	0	0	0
HIST2H2AA3	0	0	0	0	0	0
HIST2H2AA4	0	0	0	0	0	0
HIST2H2AB	2	0	1	1	0	0
HIST2H2AC	6	6	5	9	7	0
HIST2H2BA	0	0	0	0	0	0
HIST2H2BC	46	45	37	145	95	185
HIST2H2BE	36	45	48	22	30	30
HIST2H2BF	0	0	0	0	0	0
HIST2H3A	0	0	0	0	0	0
HIST2H3C	0	0	0	0	0	0
HIST2H3D	0	0	0	0	0	0
HIST2H4A	0	0	0	0	0	0
HIST2H4B	0	0	0	0	0	0
HIST3H2A	21	16	16	9	21	13
HIST3H2BB	0	0	0	0	0	0
HIST3H3	0	0	0	0	0	0
HIST4H4	1	0	0	4	2	3
HIVEP1	130	174	145	169	131	188
HIVEP2	361	374	362	716	686	621
HIVEP3	75	71	85	63	46	103
HJURP	0	1	0	0	0	0
HK1	142	136	135	93	95	103
HK2	418	427	334	34	155	0
HK3	10	24	15	0	2	0
HKDC1	14	13	11	4	21	0
HKR1	28	14	20	69	62	51
HLA-A	3766	3766	3283	2201	2508	1820
HLA-B	5644	6588	6588	4088	4538	4088
HLA-C	758	673	519	765	976	683
HLA-DMA	243	166	178	40	41	13
HLA-DMB	977	973	991	163	170	117
HLA-DOA	65	83	77	48	52	51
HLA-DOB	12	13	17	22	21	3
HLA-DPA1	2159	2467	2166	476	466	393
HLA-DPB1	1063	1296	1018	290	345	279
HLA-DPB2	0	1	0	0	0	0
HLA-DQA1	1861	2150	1785	241	350	169
HLA-DQA2	0	2	3	1	2	3
HLA-DQB1	2025	2056	1835	278	409	261
HLA-DQB2	0	0	1	4	7	8
HLA-DRA	5015	5319	4674	966	1120	873
HLA-DRB1	2680	3244	3048	300	409	241
HLA-DRB5	20	16	16	4	2	0
HLA-DRB6	85	106	53	9	9	3
HLA-E	1650	1883	1793	1346	1759	1180
HLA-F	869	916	912	816	813	450
HLA-F-AS1	19	19	26	6	18	3
HLA-G	5	0	0	0	0	8
HLA-H	18	16	8	1	4	8
HLA-J	7	13	3	9	2	3
HLA-L	13	11	15	0	4	0
HLCS	13	17	9	16	30	24
HLF	9	17	17	76	79	66
HLTF	113	115	104	87	79	94
HLX	60	46	53	13	18	3
HMI3	205	189	266	190	203	233
HMBOX1	139	132	154	203	149	199
HMBS	6	11	12	1	7	13
HMCN1	17	22	21	48	27	66
HMG20A	109	111	113	159	172	154
HMG20B	41	46	55	31	12	3
HMGAI	159	175	198	117	108	128
HMGAI1P7	0	0	0	0	0	0
HMGAI2	6	1	2	13	15	61
HMGAI3	1047	1099	940	1130	1065	916

HMGB2	627	566	576	459	590	467
HMGB3	7	11	11	4	2	0
HMGB3P1	0	0	0	0	0	3
HMGB4	0	0	0	0	0	0
HMGCL	32	25	28	43	46	71
HMGCLL1	0	0	0	1	0	0
HMGCR	136	122	98	72	77	71
HMGCS1	212	190	149	112	90	94
HMGCS2	0	0	0	1	0	0
HMGNI	355	374	358	548	529	641
HMGNI2	26	22	23	13	18	13
HMGNI2P46	4	8	5	9	15	0
HMGNI3	268	280	267	271	242	275
HMGNI4	23	23	13	31	24	19
HMGNI5	36	31	32	153	75	199
HMGXB3	36	49	41	28	72	66
HMGXB4	154	144	144	84	84	66
HMHBI	0	0	0	0	0	0
HMMR	6	2	3	22	27	51
HMOX1	205	255	286	157	127	220
HMOX2	50	62	60	53	72	30
HMSD	0	0	0	0	0	0
HMX1	0	0	0	0	0	0
HMX2	0	0	0	0	0	0
HMX3	0	0	0	0	0	0
HNF1A	0	0	0	1	0	0
HNF1A-AS1	1	2	3	9	7	35
HNF1B	0	0	2	1	4	0
HNF4A	0	0	0	0	0	0
HNF4G	1	5	1	0	2	0
HNMT	126	125	99	0	4	0
HNRNPA0	572	620	599	701	786	817
HNRNPA1	700	742	769	1942	2002	2187
HNRNPA1L2	17	22	23	63	33	56
HNRNPA1P10	0	0	0	0	0	0
HNRNPA2B1	2097	2110	2201	2224	2201	2389
HNRNPA3	667	565	597	1394	1186	1537
HNRNPA3P1	0	0	0	0	0	0
HNRNPA8	269	272	232	215	201	233
HNRNPC	424	425	413	493	553	529
HNRNPCL1	0	1	1	1	0	0
HNRNPD	973	1027	898	1195	1105	1144
HNRNPF	855	954	960	829	974	867
HNRNPH1	1284	1342	1394	2128	1900	2201
HNRNPH2	377	381	389	643	532	444
HNRNPH3	577	570	612	1039	930	1158
HNRNPK	1811	1702	1688	2077	2067	1978
HNRNPKP3	1	0	0	0	0	3
HNRNPL	454	388	420	712	622	704
HNRNPM	1005	988	949	1174	1267	1327
HNRNPR	848	776	832	1063	973	1133
HNRNPU	1551	1630	1535	1769	1725	1890
HNRNPUL1	328	331	358	476	488	472
HNRNPUL2	186	217	221	211	246	233
HNRNPUL2-BSCL2	0	0	0	0	0	0
HOGA1	0	0	0	0	0	0
HOMER1	26	25	31	90	111	121
HOMER2	15	17	8	58	18	46
HOMER3	5	22	21	1	0	0
HOMERZ	28	19	26	58	54	79
HOOK1	66	65	53	103	87	79
HOOK2	22	28	21	79	52	132
HOOK3	528	536	509	268	281	275
HOPX	160	146	132	234	219	121
HORMAD1	5	6	5	0	2	0
HORMAD2	0	0	0	1	4	8
HOTAIR	0	0	0	4	0	0
HOTAIRM1	61	50	54	22	18	24
HOTTIP	5	0	0	1	12	24
HOXA-AS3	0	0	0	6	2	0
HOXA1	5	2	2	0	0	0
HOXA10	1	7	6	0	0	0
HOXA11	0	0	0	0	0	0
HOXA13	1	2	6	19	27	51
HOXA2	0	0	0	0	0	0
HOXA3	0	0	0	0	0	0
HOXA4	0	0	0	0	0	0
HOXA5	0	0	0	0	0	3
HOXA6	0	0	0	0	0	0
HOXA7	0	0	0	0	0	0
HOXA9	9	4	3	0	7	0
HOXB-AS3	0	0	0	0	4	0
HOXB1	0	0	0	0	0	0
HOXB13	0	0	0	0	0	0
HOXB2	44	46	42	53	52	66
HOXB3	30	23	28	37	38	19
HOXB4	31	29	35	25	43	19
HOXB5	0	0	0	0	4	0
HOXB6	0	0	0	0	0	0
HOXB7	1	1	1	0	0	0
HOXB8	0	0	0	0	0	0
HOXB9	0	0	0	0	0	0
HOXC10	0	0	0	0	0	3
HOXC11	0	0	0	0	0	0
HOXC12	0	0	0	0	0	0
HOXC13	0	0	0	0	0	0
HOXC4	14	15	18	19	18	8
HOXC5	0	0	0	0	0	0
HOXC6	1	4	3	22	18	30
HOXC8	0	0	0	6	0	3
HOXC9	0	0	0	0	0	0
HOXD-AS2	0	0	0	0	0	0
HOXD1	0	1	0	0	0	0

HOXD10	0	0	0	0	0	0
HOXD11	0	0	0	0	0	0
HOXD12	0	0	0	0	0	0
HOXD13	0	0	0	0	0	0
HOXD3	0	0	0	0	0	0
HOXD4	0	0	0	0	0	0
HOXD8	0	0	1	0	4	0
HOXD9	0	0	0	0	0	0
HP	0	1	0	0	0	0
HP1BP3	838	734	747	761	682	711
HPCA	0	0	0	0	0	0
HPCAL1	200	257	235	237	326	230
HPCAL4	14	20	12	0	21	0
HPD	0	0	0	0	0	0
HPDL	0	0	0	0	0	0
HPGD	34	21	30	22	12	19
HPGD5	0	0	0	0	0	0
HPN	0	0	0	13	2	0
HPR	0	0	0	0	0	0
HPRT1	107	82	88	95	108	71
HP51	133	135	138	114	100	79
HP53	56	72	61	56	52	13
HP54	171	161	167	230	242	305
HP55	127	129	98	141	162	162
HP56	75	91	61	69	106	66
HPSE	17	22	8	1	7	13
HPSE2	2	0	1	0	0	3
HPX	0	0	0	6	0	0
HPYR1	0	0	0	0	0	0
HR	0	0	0	0	0	0
HRAS	11	12	15	1	12	3
HRASLS	0	0	0	0	0	0
HRASLS2	5	1	0	0	0	0
HRASLS5	1	2	7	0	0	0
HRC	0	0	0	0	0	0
HRCT1	0	0	0	0	0	0
HRG	0	0	0	0	0	0
HRH1	0	1	2	4	2	0
HRH2	22	31	17	6	21	3
HRH3	0	0	0	0	0	0
HRH4	13	6	3	0	0	3
HRK	12	11	6	16	15	19
HRNR	0	0	0	1	0	0
HS1BP3	21	22	26	1	7	3
HS2ST1	128	109	129	66	90	75
HS3ST1	24	37	26	19	30	30
HS3ST2	0	0	2	0	0	0
HS3ST3A1	0	1	0	0	0	0
HS3ST3B1	77	55	54	119	117	89
HS3ST4	0	0	0	0	0	0
HS3ST5	0	1	0	0	4	0
HS3ST6	0	0	0	0	0	0
HS6ST1	19	16	21	4	2	3
HS6ST2	0	0	0	0	0	0
HS6ST3	0	0	2	0	4	19
HSBP1	380	397	292	167	164	158
HSBP1L1	20	26	22	40	41	35
HSCB	13	13	8	9	33	19
HSD11B1	7	15	11	0	0	0
HSD11B1L	1	0	6	0	0	0
HSD11B2	0	0	0	0	0	0
HSD17B1	0	0	0	13	4	8
HSD17B10	50	45	59	48	54	40
HSD17B11	287	291	290	215	223	207
HSD17B12	96	78	79	40	69	40
HSD17B13	4	2	2	6	0	3
HSD17B14	2	1	5	0	0	0
HSD17B2	1	0	0	13	4	19
HSD17B3	0	0	0	0	0	0
HSD17B4	371	333	310	125	106	98
HSD17B6	0	0	2	16	0	0
HSD17B7	13	8	5	25	21	8
HSD17B7P2	2	4	2	0	2	8
HSD17B8	7	13	6	19	4	13
HSD3B1	0	0	0	0	0	0
HSD3B2	0	0	0	0	0	0
HSD3B7	14	16	17	6	0	0
HSD3BP4	0	0	0	0	0	0
HSDL1	41	45	63	28	27	46
HSDL2	78	94	77	40	43	35
HSF1	119	137	123	190	203	203
HSF2	114	107	113	237	183	210
HSF2BP	0	1	1	0	4	0
HSF4	4	2	0	6	0	0
HSF5	0	2	1	0	7	0
HSFX1	0	0	0	0	0	0
HSFX2	0	0	0	0	0	0
HSFY1	0	0	0	0	0	0
HSFY1P1	0	0	0	0	0	0
HSFY2	0	0	0	0	0	0
HSX2D	35	30	31	31	33	40
HSP90AA1	4674	4407	4286	2658	2658	2707
HSP90AA4P	9	7	6	4	2	30
HSP90AA6P	0	0	0	0	2	0
HSP90AB1	3083	2905	3083	2594	2707	2836
HSP90AB2P	2	8	3	4	12	0
HSP90AB3P	341	312	310	448	419	658
HSP90B1	1890	1685	1545	894	822	833
HSP90B3P	7	0	3	1	24	13
HSPA12A	4	0	1	1	2	0
HSPA12B	0	0	0	0	0	0
HSPA13	201	233	232	211	203	233
HSPA14	80	80	77	98	109	86

HSPA1A	596	571	487	309	265	321
HSPA1B	134	73	62	187	133	179
HSPA1L	21	48	22	66	65	30
HSPA2	7	1	1	0	2	8
HSPA4	289	255	237	371	288	501
HSPA4L	5	0	3	4	7	19
HSPA5	1368	1351	1294	509	560	444
HSPA6	30	16	18	1	9	0
HSPA7	1	1	0	0	0	0
HSPA8	373	236	230	153	159	165
HSPA9	507	474	461	525	485	610
HSPB1	63	54	57	9	7	8
HSPB11	130	128	126	139	122	117
HSPB2-C11orf52	0	0	0	0	0	0
HSPB3	0	0	0	0	0	0
HSPB6	0	0	0	0	0	0
HSPB7	0	0	0	0	0	0
HSPB8	0	0	0	0	0	0
HSPB9	0	0	0	0	0	0
HSPBAP1	49	39	32	40	18	30
HSPBP1	18	20	25	9	30	8
HSPD1	289	229	212	261	249	227
HSPF1	200	168	119	159	177	182
HSPF1-MOB4	0	0	0	0	0	0
HSPG2	1	0	0	0	0	0
HSPH1	718	555	492	597	483	632
HTATIP2	160	187	178	167	187	162
HTATSF1	263	238	194	187	195	169
HTN1	0	0	0	0	0	8
HTN3	0	0	0	0	0	0
HTR1A	0	0	0	0	0	0
HTR1B	0	0	0	0	0	0
HTR1D	0	0	0	0	0	0
HTR1E	0	0	0	0	0	0
HTR1F	4	4	2	0	0	13
HTR2A	4	0	0	1	0	0
HTR2B	0	0	0	0	0	0
HTR2C	0	0	0	0	0	0
HTR3A	0	0	0	0	0	0
HTR3B	0	0	0	0	0	0
HTR3C	0	0	0	0	0	0
HTR3D	0	0	0	0	0	0
HTR3E	0	0	0	0	0	0
HTR4	1	5	0	16	18	40
HTR5A	0	0	0	1	0	0
HTR6	0	0	0	0	0	0
HTR7	0	0	0	0	0	0
HTR7P1	20	17	17	22	24	24
HTRA1	0	0	0	0	0	0
HTRA2	22	26	24	56	49	24
HTRA3	0	0	0	0	2	0
HTRA4	9	8	9	22	15	0
HTT	72	77	68	74	79	132
HUNK	0	2	0	0	0	3
HUS1	44	61	35	37	27	56
HUS1B	1	2	1	9	2	0
HUWE1	225	233	266	305	245	321
HVCN1	187	205	206	108	82	66
HYAL1	0	0	0	0	0	0
HYAL2	12	24	15	4	0	0
HYAL3	5	4	1	0	2	0
HYAL4	0	0	0	0	0	0
HYDIN	0	0	0	0	0	0
HYI	5	2	5	0	7	3
HYLS1	17	14	25	6	15	0
HYOU1	256	264	291	161	170	121
IAH1	140	142	166	90	95	103
IAPP	0	0	0	0	0	0
IARS	103	91	72	190	111	139
IARS2	346	306	268	298	319	317
IBA57	14	14	8	6	9	19
IBSP	0	0	0	0	0	0
IBTK	504	476	447	439	431	301
ICA1	11	4	8	22	15	8
ICA1L	10	8	6	22	4	46
ICAM1	75	87	90	9	35	24
ICAM2	78	91	71	51	84	40
ICAM3	64	108	115	215	212	233
ICAM4	0	0	0	0	9	13
ICAM5	0	2	1	0	0	0
ICK	83	60	72	87	35	46
ICMT	72	72	62	37	57	61
ICOS	26	24	34	79	62	79
ICOSLG	0	0	0	0	0	0
ID1	0	0	0	16	4	30
ID2	589	631	503	363	444	369
ID3	183	158	159	190	144	169
ID4	0	0	0	0	0	0
IDE	52	46	48	43	35	35
IDH1	116	117	123	28	18	13
IDH2	200	225	215	28	49	13
IDH3A	90	105	97	48	75	79
IDH3B	84	56	66	103	72	117
IDH3G	46	52	34	25	12	3
IDI1	209	187	178	171	168	249
IDI2	0	0	0	0	0	8
IDI2-AS1	0	0	0	0	2	0
IDO1	297	330	362	9	24	0
IDO2	22	41	22	0	0	0
IDS	733	794	772	822	797	794
IDUA	7	12	11	4	12	0
IER2	543	613	524	293	343	288
IER3	782	1013	991	143	295	103

IER3IP1	248	236	237	201	223	192
IER5	1005	1062	1009	951	1027	966
IER5L	28	29	29	1	12	3
IFFO1	161	185	165	117	79	51
IFFO2	72	114	104	153	183	132
IFI16	1379	1246	1318	1090	1065	1180
IFI27	44	61	60	6	0	35
IFI27L1	0	9	9	1	0	8
IFI27L2	41	34	39	34	38	13
IFI30	32	31	21	9	4	0
IFI35	50	37	43	22	15	19
IFI44	58	70	66	60	57	71
IFI44L	132	109	134	84	67	79
IFI6	104	124	127	1	12	8
IFIH1	234	174	192	121	140	132
IFIT1	12	17	18	4	7	13
IFIT1B	0	0	0	0	0	0
IFIT2	114	108	84	48	57	75
IFIT3	222	248	237	22	82	117
IFIT5	158	142	149	159	149	203
IFITM1	1	4	2	16	2	0
IFITM10	0	0	0	6	9	3
IFITM2	70	83	84	141	155	151
IFITM3	61	76	65	1	12	3
IFITM4P	0	0	0	0	0	0
IFITM5	0	0	0	0	0	0
IFNA1	0	0	0	0	0	0
IFNA10	0	0	0	0	0	0
IFNA13	0	0	0	1	0	0
IFNA14	0	0	0	0	0	0
IFNA16	0	0	0	0	0	0
IFNA17	0	0	0	0	0	0
IFNA2	0	0	0	0	0	0
IFNA21	0	0	0	0	0	0
IFNA22P	0	0	0	0	0	0
IFNA4	0	0	0	0	0	0
IFNA5	1	0	0	0	0	0
IFNA6	0	0	0	0	0	0
IFNA7	0	0	0	0	0	0
IFNA8	0	0	0	0	0	8
IFNAR1	234	238	233	167	147	207
IFNAR2	326	369	350	219	246	192
IFNB1	0	0	0	0	0	0
IFNE	0	0	0	0	0	0
IFNG	13	6	5	66	332	335
IFNGR1	289	312	263	90	111	89
IFNGR2	377	387	286	66	82	71
IFNK	0	0	0	0	0	0
IFNW1	0	0	0	0	0	0
IFRD1	230	170	179	195	181	241
IFRD2	31	33	30	34	21	30
IFT122	7	11	13	13	7	8
IFT140	1	0	0	0	4	0
IFT172	9	9	8	1	15	19
IFT20	87	80	82	108	108	84
IFT27	49	52	68	40	43	46
IFT43	15	22	12	19	24	8
IFT46	24	16	14	16	38	3
IFT52	42	43	25	37	54	30
IFT57	106	95	87	143	120	66
IFT74	64	60	63	74	72	24
IFT80	44	56	63	51	54	89
IFT81	7	8	8	16	4	8
IFT88	40	52	50	69	75	79
IGBP1	249	288	232	336	314	355
IGBP1P1	9	14	20	6	15	0
IGDCC3	0	0	0	1	2	8
IGDCC4	1	0	0	0	0	13
IGF1	10	12	7	60	46	46
IGF1R	202	170	204	264	259	343
IGF2	0	0	0	0	0	0
IGF2BP1	0	0	0	1	0	8
IGF2BP2	50	52	35	51	15	61
IGF2BP3	17	12	11	4	9	13
IGF2R	796	886	1016	466	475	329
IGFALS	0	0	0	0	0	0
IGFBP1	0	0	0	0	0	0
IGFBP2	2	7	9	0	12	3
IGFBP3	23	8	5	13	12	3
IGFBP4	5	4	11	6	7	0
IGFBP5	2	1	5	16	7	35
IGFBP6	0	0	0	0	0	0
IGFBP7	28	24	24	9	15	0
IGFBPL1	0	0	0	0	0	0
IGFL1	0	0	0	0	0	0
IGFL2	0	0	0	0	0	0
IGFL3	0	0	0	0	0	0
IGFL4	0	0	0	0	0	0
IGFLR1	126	105	84	53	43	61
IGFN1	1	0	0	1	0	0
IGHMBP2	20	19	22	28	33	8
IGIP	49	48	59	100	65	75
IGLL1	0	0	0	0	0	0
IGLL3P	0	0	0	0	0	0
IGLL5	2	0	1	6	15	3
IGLON5	0	0	0	0	0	0
IGSF1	0	0	0	0	0	0
IGSF10	1	5	5	51	54	89
IGSF11	0	0	0	0	0	0
IGSF11-AS1	0	0	0	0	0	0
IGSF21	0	0	0	0	0	0
IGSF22	0	1	1	0	0	0
IGSF23	0	0	0	0	0	0

IGSF3	2	2	0	4	2	3
IGSF5	0	0	0	0	0	0
IGSF6	980	872	846	56	67	40
IGSF8	24	16	25	19	30	13
IGSF9	0	0	0	0	0	3
IGSF9B	0	2	0	1	4	0
IHH	0	0	0	0	0	0
IK	554	495	488	944	995	1037
IKBIP	123	114	93	25	54	13
IKBBB	180	179	204	234	179	139
IKBKE	66	63	53	31	38	30
IKBKG	0	0	0	0	0	0
IKZF1	944	944	952	1785	1658	1967
IKZF2	365	350	374	587	595	636
IKZF3	486	449	509	902	888	908
IKZF4	49	41	40	106	43	136
IKZF5	100	115	129	129	142	147
IL10	1	7	3	16	15	66
IL10RA	571	690	672	394	501	317
IL10RB	80	115	124	79	54	84
IL11	0	0	0	1	0	0
IL11RA	76	113	106	147	115	147
IL12A	6	1	1	0	0	0
IL12B	0	0	0	1	2	0
IL12RB1	51	47	45	22	7	3
IL12RB2	6	8	5	13	21	0
IL13	0	0	0	4	0	3
IL13RA1	501	497	486	31	21	30
IL13RA2	0	0	0	0	0	0
IL15	49	49	43	13	12	13
IL15RA	76	86	85	37	27	8
IL16	459	535	669	844	846	672
IL17A	0	0	3	1	2	0
IL17B	0	0	0	0	0	0
IL17C	0	2	0	0	0	0
IL17D	0	0	0	0	0	0
IL17F	0	0	2	0	0	0
IL17RA	537	586	575	290	321	245
IL17RB	0	1	0	0	0	0
IL17RC	9	7	15	4	0	3
IL17RD	0	0	2	0	2	0
IL17RE	0	0	0	0	0	3
IL17REL	0	0	0	0	0	0
IL18	9	12	13	0	0	0
IL18BP	244	221	239	6	4	13
IL18R1	49	56	51	103	79	94
IL18RAP	18	34	51	74	79	56
IL19	0	0	0	13	7	24
IL1A	2	4	5	1	21	3
IL1B	281	341	277	409	775	279
IL1F10	0	0	0	0	0	0
IL1R1	88	68	75	28	9	35
IL1R2	93	118	100	1	12	35
IL1RAP	56	50	66	9	21	51
IL1RAPL1	0	0	3	4	0	8
IL1RAPL2	0	0	0	0	0	0
IL1RL1	14	16	8	9	27	13
IL1RL2	0	2	0	0	0	8
IL1RN	103	165	108	40	174	30
IL2	2	9	15	19	18	46
IL20	0	0	0	0	0	0
IL20RA	1	2	0	28	21	40
IL20RB	1	5	0	16	15	13
IL21	9	9	5	28	69	56
IL21R	128	143	100	237	238	285
IL22	0	0	0	1	2	0
IL22RA1	0	0	0	0	0	0
IL22RA2	0	0	0	0	0	0
IL23A	35	31	46	106	69	51
IL23R	0	0	0	1	0	0
IL24	0	0	0	0	4	0
IL25	0	0	0	0	0	0
IL26	0	0	0	0	4	24
IL27	12	7	5	0	0	0
IL27RA	174	199	166	117	140	75
IL2RA	94	72	121	112	117	117
IL2RB	316	279	286	224	290	220
IL2RG	317	301	323	375	488	294
IL3	0	0	0	0	0	0
IL31	0	0	0	4	0	0
IL31RA	5	0	0	4	0	8
IL32	111	100	147	157	177	179
IL33	0	0	0	0	0	0
IL34	0	0	0	0	0	0
IL36A	0	0	0	0	0	0
IL36B	0	0	0	0	0	0
IL36G	0	0	0	6	4	0
IL36RN	0	0	0	0	0	0
IL37	0	0	0	0	0	0
IL3RA	115	137	158	37	113	35
IL4	1	1	2	6	0	3
IL4I1	47	52	84	1	9	0
IL4R	268	345	388	391	452	359
IL5	0	0	0	0	0	0
IL5RA	1	0	5	0	0	8
IL6	1	0	0	6	9	3
IL6R	435	511	509	525	513	486
IL6ST	484	468	542	472	436	325
IL7	20	19	6	1	4	13
IL7R	2873	2658	2769	3007	2836	2445
IL9	0	0	0	0	0	0
IL9R	0	0	0	0	0	0
ILDRI	0	1	1	0	0	0

ILDR2	0	0	1	4	2	13
ILF2	256	292	277	383	391	438
ILF3	334	367	397	581	480	586
ILK	74	60	97	40	35	24
ILKAP	123	167	144	179	183	224
ILVBL	21	20	20	4	4	3
IMMP1L	39	35	29	56	57	46
IMMP2L	26	34	26	79	69	103
IMMT	244	215	187	151	174	112
IMP3	397	486	402	365	473	355
IMP4	64	87	55	84	84	84
IMPA1	150	135	123	108	133	124
IMPA2	23	22	14	0	0	0
IMPACT	133	107	112	45	33	61
IMPAD1	231	220	210	203	199	245
IMPDH1	36	40	52	1	2	0
IMPDH2	102	106	97	167	203	179
IMPG1	0	0	0	0	0	0
IMPG2	6	2	1	48	12	89
INA	0	0	0	0	0	0
INCA1	0	0	0	0	0	0
INCENP	10	21	23	9	18	8
INE1	2	0	0	0	0	0
INF2	17	13	13	13	18	0
ING1	104	102	83	132	108	132
ING2	228	204	169	95	120	98
ING3	305	286	310	245	251	249
ING4	60	70	76	74	103	107
ING5	133	137	175	177	111	147
INGX	0	0	0	0	0	0
INH4	0	4	0	0	0	0
INHBA	147	137	108	145	274	185
INHBB	0	0	0	4	9	8
INHBC	0	0	0	0	0	0
INHBE	0	0	0	0	0	0
INMT	0	0	0	0	0	0
INO80	179	163	197	239	238	220
INO80B	30	35	37	90	62	40
INO80C	32	35	46	25	27	24
INO80D	300	318	286	391	321	415
INO80E	75	87	106	117	122	98
INPP1	42	41	29	25	30	19
INPP4A	186	155	151	203	155	176
INPP4B	166	181	149	313	270	317
INPP5A	37	49	39	58	60	71
INPP5B	74	81	93	93	92	79
INPP5D	475	467	456	627	606	505
INPP5E	39	37	31	66	46	35
INPP5F	40	22	39	37	27	13
INPP5J	0	0	0	0	0	0
INPP5K	65	54	63	100	75	61
INPPL1	133	139	151	155	164	162
INS	0	0	0	0	0	0
INS-IGF2	0	0	0	0	0	0
INSC	0	1	0	0	2	19
INSIG1	296	306	240	110	131	143
INSIG2	103	96	88	125	124	136
INSL3	1	2	1	40	18	56
INSL4	0	0	0	0	0	0
INSL5	0	0	0	0	0	0
INSL6	0	2	0	0	7	13
INSM1	5	2	6	0	0	0
INSM2	0	0	0	0	0	0
INSR	65	48	51	56	30	71
INSRR	0	0	0	0	0	0
INTS1	14	16	25	13	4	13
INTS10	111	108	124	145	129	139
INTS12	31	29	24	19	7	13
INTS2	82	62	62	151	144	264
INTS3	28	29	43	69	49	46
INTS4	51	37	39	45	15	40
INTS5	72	77	84	63	67	24
INTS6	221	197	225	252	217	258
INTS7	40	30	29	0	4	8
INTS8	106	95	90	149	144	182
INTS9	31	42	30	22	30	24
INTU	1	6	5	4	2	13
INVS	29	22	21	31	18	66
IP6K1	78	60	84	143	197	154
IP6K2	107	106	113	254	206	196
IP6K3	0	0	0	0	0	0
IPCEF1	274	297	321	466	394	432
IPMK	210	203	171	132	162	121
IPO11	37	33	31	48	65	89
IPO13	19	16	11	1	2	19
IPO4	12	11	5	1	4	13
IPO5	210	174	194	187	254	162
IPO7	388	431	423	506	397	463
IPO8	225	200	202	323	257	192
IPO9	134	142	126	145	108	121
IPP	23	29	13	6	35	13
IPPK	49	45	47	25	49	40
IQCA1	6	1	1	4	2	8
IQCB1	58	65	69	169	129	158
IQCC	1	0	0	1	2	0
IQCD	0	4	0	0	0	19
IQCE	24	28	43	129	97	275
IQCF1	0	0	0	0	0	0
IQCF2	0	0	0	0	0	0
IQCF3	0	0	0	0	0	0
IQCF5	0	0	0	0	0	0
IQCF6	0	0	0	0	0	0
IQCG	25	28	29	31	30	24

IQCH	0	0	2	4	2	3
IQCJ	0	0	0	0	0	0
IQCJ-SCHIP1	0	0	0	0	0	0
IQCK	6	6	8	13	15	30
IQGAP1	1424	1394	1258	697	713	565
IQGAP2	1049	866	928	672	581	511
IQGAP3	0	0	0	0	2	19
IQSEC1	114	118	144	110	82	94
IQSEC2	28	39	43	13	4	3
IQSEC3	0	2	0	0	0	0
IQUB	0	1	0	4	2	30
IRAK1	200	229	186	93	92	107
IRAK1BP1	17	11	11	40	35	46
IRAK2	19	16	15	51	41	56
IRAK3	238	210	252	6	18	13
IRAK4	217	224	193	290	227	237
IREB2	579	616	619	752	746	913
IRF1	1122	1133	1182	723	883	829
IRF2	459	393	361	439	452	456
IRF2BP1	1	2	3	4	2	0
IRF2BP2	2087	2087	2056	1377	1441	1280
IRF2BPL	361	393	307	230	201	216
IRF3	85	118	137	149	149	128
IRF4	111	90	103	141	127	188
IRF5	72	74	69	22	7	19
IRF6	0	0	0	0	0	0
IRF7	50	43	30	22	30	0
IRF8	319	273	230	134	129	169
IRF9	13	8	13	16	18	19
IRGC	0	0	0	0	0	0
IRGM	0	2	2	0	0	0
IRGQ	35	28	58	16	38	0
IRS1	20	8	11	19	38	13
IRS2	294	283	217	228	242	220
IRS4	0	0	0	0	0	0
IRX1	0	0	0	0	0	0
IRX2	19	20	22	151	162	275
IRX3	0	0	0	0	0	0
IRX4	0	0	0	0	0	0
IRX5	0	0	0	0	0	0
IRX6	0	0	0	0	0	0
ISCA1	54	34	42	72	75	19
ISCA2	93	74	62	79	75	56
ISCU	649	656	635	906	846	897
ISG15	40	48	50	22	21	19
ISG20	140	170	200	127	168	94
ISG20L2	93	82	78	106	106	107
ISL1	2	0	0	0	0	3
ISL2	0	0	0	0	0	0
ISLR	0	0	0	0	0	0
ISLR2	0	0	0	0	0	0
ISM1	11	1	9	0	2	0
ISM2	0	0	0	1	0	0
ISOC1	148	98	132	90	135	89
ISOC2	15	13	13	0	2	0
ISPD	6	11	6	6	7	0
IST1	286	342	331	455	461	478
ISX	0	0	0	0	0	0
ISY1	100	83	111	74	84	84
ISY1-RAB43	0	0	0	0	0	0
ISYNA1	1	1	2	4	2	0
ITCH	109	100	94	98	120	107
ITFG1	157	167	175	224	193	216
ITFG2	82	84	90	74	97	84
ITGA1	25	32	40	45	60	103
ITGA10	6	5	9	45	24	46
ITGA11	5	5	3	28	12	19
ITGA2	2	5	2	22	15	40
ITGA2B	0	1	0	4	0	3
ITGA3	5	2	11	22	21	24
ITGA4	162	127	126	199	155	203
ITGA5	15	30	20	48	35	24
ITGA6	222	193	190	418	409	415
ITGA7	1	1	1	9	7	30
ITGA8	0	0	0	0	4	0
ITGA9	0	0	0	9	2	30
ITGAD	0	0	0	0	0	0
ITGAE	66	57	43	58	72	40
ITGAL	148	168	185	197	149	165
ITGAM	197	214	201	51	43	46
ITGAV	77	86	66	9	27	0
ITGAX	276	229	277	16	41	30
ITGB1	276	241	282	335	319	308
ITGB1BP1	85	90	63	84	100	117
ITGB1BP2	2	4	0	1	0	3
ITGB2	3112	3112	2936	1092	1246	684
ITGB3	0	0	0	0	0	0
ITGB3BP	55	69	52	90	92	89
ITGB4	0	0	0	0	0	0
ITGB5	2	6	3	1	0	13
ITGB6	0	0	0	0	0	0
ITGB7	125	132	100	79	90	71
ITGB8	14	12	26	53	54	75
ITGBL1	1	0	8	19	21	46
ITIH1	0	0	0	0	0	0
ITIH2	0	0	0	0	0	0
ITIH3	0	0	0	0	0	0
ITIH4	0	1	2	0	7	0
ITIH5	1	0	2	9	9	24
ITIH6	0	0	0	0	0	0
ITK	276	272	263	793	802	879
ITLN1	0	0	0	0	0	0
ITLN2	0	0	0	0	0	0

ITM2A	272	281	312	463	475	447
ITM2B	2128	1912	1851	1370	1234	1142
ITM2C	69	77	97	117	135	132
ITPA	103	106	119	129	113	132
ITPK1	88	106	88	31	35	0
ITPK1-AS1	0	2	0	9	9	30
ITPKA	0	0	1	0	2	0
ITPKB	39	57	59	136	84	124
ITPKC	20	11	14	13	12	3
ITPR1	262	266	331	224	249	254
ITPR2	611	537	648	336	311	352
ITPR3	74	71	80	84	72	61
ITPRIP	34	32	24	16	24	8
ITPRIPL1	22	28	26	56	41	46
ITPRIPL2	343	346	426	34	57	24
ITSN1	19	21	9	1	12	3
ITSN2	756	679	698	831	752	924
IVD	54	67	51	48	54	13
IVL	0	0	0	0	0	0
IVNS1ABP	406	380	392	483	701	369
IWS1	355	329	342	448	426	453
IYD	4	0	1	0	4	13
IZUMO1	0	0	0	0	0	0
IZUMO2	0	0	0	1	0	3
IZUMO4	0	0	7	1	2	3
JAG1	15	15	21	0	0	0
JAG2	1	1	0	0	0	0
JAGN1	75	106	100	123	147	98
JAK1	1473	1495	1450	1458	1475	1246
JAK2	353	317	399	114	82	61
JAK3	75	90	142	167	183	188
JAKMIP1	22	25	24	48	38	3
JAKMIP2	87	67	80	72	92	117
JAKMIP3	0	0	0	0	0	35
JAM2	0	0	0	4	0	8
JAM3	11	6	8	13	7	0
JARID2	387	382	364	343	367	314
JAZF1	180	167	113	123	144	136
JAZF1-AS1	0	0	0	6	2	0
JDP2	84	82	74	13	12	8
JKAMP	213	184	183	114	164	84
JMJD1C	472	414	466	583	459	532
JMJD4	13	19	23	37	41	46
JMJD6	65	78	104	117	133	79
JMJD7	0	0	0	0	0	0
JMJD7-PLA2G4B	1	1	1	0	0	0
JMJD8	15	20	17	28	27	30
JMY	262	200	228	419	392	526
JOSD1	144	161	163	224	208	249
JOSD2	4	0	3	0	4	0
JPH1	0	0	0	0	0	0
JPH2	0	0	0	0	0	0
JPH3	0	0	0	0	0	0
JPH4	0	0	0	0	0	0
JPX	110	105	129	340	283	428
JRK	12	30	20	51	35	0
JRKL	134	115	106	274	219	291
JSRP1	1	0	0	0	0	0
JTB	155	224	147	187	191	237
JUN	591	565	504	209	193	264
JUNB	865	976	997	321	380	359
JUND	539	648	665	263	281	216
JUP	10	9	15	6	2	0
KAAG1	0	1	0	1	4	3
KALRN	2	4	0	0	2	19
KANK1	17	15	17	19	15	13
KANK2	5	2	2	0	0	0
KANK3	0	1	0	0	0	0
KANK4	0	8	0	9	9	24
KANSL1	444	446	526	569	542	546
KANSL1-AS1	45	32	34	84	54	103
KANSL1L	58	43	44	45	62	46
KANSL2	68	56	47	93	79	107
KANSL3	158	154	160	197	246	213
KARS	422	471	434	400	410	379
KAT2A	35	31	24	34	27	24
KAT2B	218	173	206	143	129	66
KAT5	85	104	107	93	62	75
KAT6A	778	750	709	1209	1125	1403
KAT6B	285	249	297	266	217	261
KAT7	165	154	138	157	168	227
KAT8	50	50	58	87	60	46
KATNA1	90	139	105	114	90	51
KATNAL1	23	16	24	9	24	13
KATNAL2	4	2	3	40	21	24
KATNB1	20	9	12	19	2	3
KAZALD1	0	0	0	0	0	13
KAZN	1	0	0	1	0	8
KBTBD11	7	7	16	6	0	0
KBTBD12	0	0	0	0	0	0
KBTBD13	0	0	0	0	0	0
KBTBD2	231	181	218	224	254	245
KBTBD3	34	31	20	19	35	3
KBTBD4	32	54	44	40	72	103
KBTBD6	41	43	41	93	90	66
KBTBD7	151	147	128	252	251	305
KBTBD8	28	24	9	34	41	19
KCMF1	169	192	179	221	265	282
KCNA1	0	0	0	0	0	0
KCNA10	0	0	0	0	0	0
KCNA2	5	2	1	16	12	35
KCNA3	26	16	23	53	30	71
KCNA4	1	0	0	0	0	0

KCNA5	2	2	0	1	0	0
KCNA6	0	0	0	0	0	0
KCNA7	0	0	0	0	0	0
KCNAB1	2	0	0	0	2	3
KCNAB2	182	195	202	226	242	185
KCNAB3	7	16	11	37	21	66
KCNB1	2	0	1	0	2	0
KCNB2	0	0	0	0	0	0
KCNC1	0	0	0	6	0	0
KCNC2	0	0	0	0	7	0
KCNC3	0	0	1	0	0	0
KCNC4	20	15	16	22	4	19
KCND1	0	0	0	0	4	8
KCND2	0	0	1	9	7	8
KCND3	0	0	0	4	4	0
KCNE1	0	0	0	0	0	0
KCNE2	0	0	0	0	0	8
KCNE3	230	186	192	1	15	13
KCNE4	0	0	1	1	0	13
KCNF1	0	0	0	0	0	0
KCNG1	2	4	2	0	0	0
KCNG2	0	0	0	0	0	0
KCNG3	0	0	0	0	0	0
KCNG4	0	0	0	0	0	0
KCNH1	4	0	0	1	0	3
KCNH2	4	2	2	1	4	8
KCNH3	0	0	0	0	0	0
KCNH4	0	0	0	0	0	0
KCNH5	5	0	0	19	2	35
KCNH6	0	0	0	0	0	0
KCNH7	0	0	0	0	0	0
KCNH8	0	0	0	0	0	0
KCNIP1	0	0	0	0	0	0
KCNIP2	0	1	0	0	0	0
KCNIP3	0	0	0	0	0	0
KCNIP4	1	0	2	1	0	0
KCNJ1	0	0	0	0	0	0
KCNJ10	7	8	6	4	0	3
KCNJ11	2	5	3	0	0	0
KCNJ12	0	0	0	0	0	3
KCNJ13	0	0	0	1	2	0
KCNJ14	14	16	12	66	67	103
KCNJ15	13	11	11	4	4	3
KCNJ16	0	1	1	4	0	0
KCNJ2	37	30	41	9	7	8
KCNJ2-AS1	2	5	1	0	0	0
KCNJ3	1	0	0	4	4	0
KCNJ4	0	0	0	6	4	24
KCNJ5	0	0	0	0	0	0
KCNJ6	4	1	1	13	7	24
KCNJ8	0	0	0	0	0	0
KCNJ9	0	0	0	0	0	0
KCNK1	0	1	0	0	0	0
KCNK10	2	1	0	1	12	8
KCNK12	1	0	2	0	0	8
KCNK13	5	5	5	0	0	0
KCNK15	0	0	0	0	0	0
KCNK16	0	0	0	0	0	0
KCNK17	0	0	0	0	0	0
KCNK18	0	0	0	0	0	0
KCNK2	0	0	0	0	0	0
KCNK3	0	0	0	0	7	0
KCNK4	0	0	0	0	0	0
KCNK5	0	0	0	0	0	0
KCNK6	88	78	77	31	33	19
KCNK7	0	0	0	0	0	0
KCNK9	0	0	1	4	0	3
KCNMA1	82	87	91	19	21	8
KCNMB1	14	16	24	25	18	46
KCNMB2	0	0	0	0	0	0
KCNMB3	0	4	1	0	0	0
KCNMB4	17	20	12	16	9	19
KCNN1	0	0	0	4	4	19
KCNN2	0	0	0	0	0	0
KCNN3	11	4	7	63	54	162
KCNN4	39	38	45	25	33	3
KCNQ1	45	46	39	51	35	46
KCNQ1DN	0	0	0	0	0	0
KCNQ1OT1	90	84	145	321	336	586
KCNQ2	0	0	0	0	2	0
KCNQ3	2	1	1	0	0	0
KCNQ4	0	0	0	0	0	0
KCNQ5	2	0	3	4	0	0
KCNRG	6	2	0	4	7	13
KCNS1	0	0	0	0	0	0
KCNS2	0	0	0	0	0	0
KCNS3	0	0	0	0	0	0
KCNT1	0	0	0	0	0	0
KCNT2	0	0	0	0	2	0
KCNU1	0	0	2	4	0	0
KCNV1	0	0	0	0	0	0
KCNV2	0	0	0	0	0	0
KCP	0	0	0	0	7	8
KCTD1	14	6	3	40	30	61
KCTD10	76	71	42	117	100	121
KCTD11	10	8	2	13	0	0
KCTD12	761	699	572	53	49	51
KCTD13	13	25	30	25	18	40
KCTD14	0	0	0	0	0	0
KCTD15	4	9	5	0	0	0
KCTD16	11	17	21	79	87	139
KCTD17	23	42	28	13	7	0
KCTD18	41	37	45	63	79	75

KCTD19	0	0	0	0	0	3
KCTD2	47	62	55	60	82	46
KCTD20	151	161	151	100	137	103
KCTD21	10	13	15	4	9	0
KCTD3	23	30	23	16	15	35
KCTD4	0	0	0	0	0	0
KCTD5	235	210	182	179	195	196
KCTD6	42	29	37	22	35	13
KCTD7	96	97	91	74	69	24
KCTD8	0	0	0	4	4	0
KCTD9	80	69	82	110	106	112
KDELC1	0	0	0	0	0	0
KDELC2	31	37	34	25	24	35
KDELR1	314	300	330	217	268	207
KDELR2	205	228	225	123	117	89
KDELR3	0	0	0	0	0	0
KDM1A	77	91	80	108	97	79
KDM1B	65	55	57	6	12	24
KDM2A	602	533	667	763	629	704
KDM2B	329	330	373	283	265	241
KDM3A	411	328	345	309	506	288
KDM3B	202	173	179	195	197	173
KDM4A	140	139	127	121	117	107
KDM4B	94	109	121	136	159	139
KDM4C	130	113	134	190	177	233
KDM4D	0	4	0	0	0	0
KDM5A	882	938	1073	1052	999	1125
KDM5B	140	158	187	201	257	301
KDM5C	119	152	135	141	129	112
KDM5D	74	79	85	79	65	71
KDM6A	79	58	63	136	95	139
KDM6B	82	80	94	87	60	56
KDR	0	0	0	0	0	0
KDSR	171	186	172	268	297	312
KEAP1	93	113	94	106	113	112
KEL	0	0	0	0	0	0
KERA	0	0	0	6	2	30
KHDC1	2	0	5	6	4	13
KHDC1L	0	0	0	0	0	0
KHDRBS1	825	750	806	844	824	865
KHDRBS2	4	2	5	0	0	0
KHDRBS3	1	4	3	13	24	13
KHK	9	4	3	0	0	0
KHNYN	200	193	207	206	199	199
KHSRP	278	282	319	290	288	321
KIAA0040	272	318	330	217	234	258
KIAA0087	0	0	0	0	0	3
KIAA0100	144	134	246	121	84	132
KIAA0232	146	141	151	161	131	196
KIAA0319	0	0	0	0	0	8
KIAA0319L	136	181	142	276	263	288
KIAA0355	115	131	124	245	164	227
KIAA0391	34	22	29	45	72	61
KIAA0408	1	4	0	0	0	0
KIAA0513	84	100	112	34	41	30
KIAA0556	42	35	48	48	43	24
KIAA0586	152	125	142	157	158	227
KIAA0753	45	37	60	37	100	46
KIAA0825	12	7	12	19	7	0
KIAA0895	0	2	1	13	0	19
KIAA0895L	25	14	21	1	2	0
KIAA0930	739	905	783	66	124	51
KIAA1024	0	0	0	1	9	3
KIAA1109	532	511	634	618	511	595
KIAA1143	147	169	142	268	307	249
KIAA1147	255	230	258	342	350	301
KIAA1191	151	146	138	182	185	158
KIAA1210	0	0	0	0	0	0
KIAA1211	0	0	0	0	0	3
KIAA1217	0	0	0	6	7	35
KIAA1257	0	2	0	1	0	13
KIAA1324	4	9	7	6	9	24
KIAA1324L	11	12	12	16	12	3
KIAA1328	26	17	21	13	15	8
KIAA1522	1	0	0	1	0	0
KIAA1549	0	0	0	1	4	3
KIAA1586	48	42	59	56	65	35
KIAA1614	0	0	1	0	9	0
KIAA1671	20	26	36	45	38	51
KIAA1755	0	0	0	0	0	0
KIAA1841	31	17	13	34	24	35
KIAA1958	31	16	26	45	15	19
KIAA2013	208	220	201	245	195	224
KIAA2026	508	513	539	594	539	695
KIDINS220	353	428	382	268	316	224
KIF11	11	7	7	9	9	19
KIF12	0	0	0	0	0	0
KIF13A	222	255	272	79	87	107
KIF13B	128	101	116	95	62	98
KIF14	7	7	5	9	24	13
KIF15	9	5	7	28	24	46
KIF16B	68	54	54	45	87	24
KIF17	0	0	0	0	0	0
KIF18A	9	9	5	0	2	0
KIF18B	0	0	0	4	2	13
KIF19	7	8	7	9	33	13
KIF1A	0	0	0	4	0	30
KIF1B	145	130	123	51	38	19
KIF1C	104	105	108	51	46	19
KIF20A	1	1	1	4	0	0
KIF20B	245	209	219	252	201	249
KIF21A	137	125	137	123	151	147
KIF21B	143	148	171	215	197	151

KIF22	59	65	60	60	95	30
KIF23	5	7	7	0	0	0
KIF24	0	0	0	0	0	0
KIF25	0	0	0	0	0	0
KIF26A	1	0	0	0	0	0
KIF26B	0	0	0	0	0	0
KIF27	17	6	14	22	15	19
KIF2A	558	497	478	723	622	786
KIF2B	0	0	0	0	0	0
KIF2C	1	1	0	0	0	3
KIF3A	190	147	166	165	206	154
KIF3B	88	118	100	82	111	103
KIF3C	4	4	11	0	0	0
KIF4A	0	0	0	0	0	0
KIF4B	0	0	0	45	21	66
KIF5A	1	0	3	0	0	0
KIF5B	1150	1080	938	668	665	723
KIF5C	49	66	32	121	87	51
KIF6	0	0	0	0	4	0
KIF7	0	0	0	0	0	0
KIF9	13	5	9	0	2	0
KIFAP3	44	38	46	45	52	98
KIFC1	4	0	0	0	0	0
KIFC2	22	14	32	19	27	8
KIFC3	14	24	28	4	21	13
KIN	177	150	142	230	208	297
KIR2DL1	6	7	7	1	15	13
KIR2DL3	5	0	2	0	2	0
KIR2DL4	0	5	3	1	2	0
KIR2DS4	1	5	0	0	0	0
KIR3DL1	7	1	3	0	4	0
KIR3DL2	6	4	1	6	18	8
KIR3DL3	0	0	0	0	0	0
KIR3DX1	0	0	0	0	0	0
KIRREL2	0	0	0	0	0	0
KIRREL3	0	0	0	0	0	0
KIRREL3-AS3	0	0	0	0	0	0
KISS1	0	0	0	0	0	0
KISS1R	13	21	12	4	7	3
KIT	25	30	20	90	60	61
KITLG	0	1	5	0	0	0
KL	4	0	0	0	0	0
KLB	1	0	0	13	12	13
KLC1	96	128	124	143	140	61
KLC2	10	5	13	4	12	13
KLC3	0	0	0	1	0	0
KLC4	14	7	17	28	24	30
KLF1	0	1	5	0	0	0
KLF10	349	319	229	147	166	169
KLF11	82	95	77	9	0	3
KLF12	255	249	228	315	259	267
KLF13	543	506	515	459	419	428
KLF14	0	0	0	0	0	0
KLF15	0	0	0	1	0	0
KLF16	39	28	25	13	21	24
KLF17	0	2	0	0	0	13
KLF2	1592	1900	1725	1455	1542	1021
KLF3	231	214	183	268	210	199
KLF4	140	144	94	0	4	0
KLF5	26	20	32	37	27	35
KLF6	2427	2508	2097	1014	1275	1021
KLF7	147	151	117	173	124	185
KLF8	18	12	6	4	9	0
KLF9	418	378	384	219	238	210
KLHDC1	42	34	50	74	72	139
KLHDC10	63	62	55	53	46	84
KLHDC2	180	188	202	271	268	275
KLHDC3	59	52	71	98	67	71
KLHDC4	60	57	61	95	79	103
KLHDC7A	0	0	3	0	4	19
KLHDC7B	13	8	8	22	4	0
KLHDC8A	0	0	0	0	0	0
KLHDC8B	12	6	9	0	0	0
KLHDC9	0	1	0	0	7	0
KLHL1	0	0	0	0	0	0
KLHL10	0	0	0	0	0	0
KLHL11	1	1	0	0	0	0
KLHL12	63	58	65	40	60	40
KLHL13	2	0	0	4	2	3
KLHL14	9	5	7	6	4	0
KLHL15	44	45	30	48	43	94
KLHL17	18	13	20	22	27	8
KLHL18	39	46	58	16	9	3
KLHL2	139	118	103	93	111	124
KLHL20	188	170	158	243	240	227
KLHL21	140	155	127	283	283	288
KLHL22	13	13	34	16	35	8
KLHL23	7	7	5	25	21	75
KLHL24	319	312	307	432	367	478
KLHL25	0	2	5	0	4	0
KLHL26	26	24	18	31	27	24
KLHL28	188	179	154	372	350	438
KLHL29	0	1	3	9	4	8
KLHL3	18	26	29	72	33	84
KLHL30	0	0	0	6	0	0
KLHL31	0	0	1	1	0	0
KLHL32	2	2	2	6	4	0
KLHL33	0	0	0	0	0	3
KLHL34	2	4	9	22	15	13
KLHL35	0	0	0	1	0	8
KLHL36	236	266	227	315	314	343
KLHL38	0	0	0	0	0	0
KLHL4	2	4	2	13	9	13

KLHL5	146	147	119	125	111	112
KLHL6	165	130	135	226	166	210
KLHL7	36	41	36	37	24	35
KLHL8	153	132	112	82	100	75
KLHL9	255	209	202	203	232	199
KLK1	1	0	0	0	2	0
KLK10	0	0	0	0	0	0
KLK11	0	0	0	6	4	3
KLK12	0	0	0	0	0	0
KLK13	0	0	0	0	0	0
KLK14	0	0	0	0	0	0
KLK15	0	0	0	0	0	0
KLK2	0	2	0	0	0	0
KLK3	0	0	0	0	0	0
KLK4	0	0	0	0	0	0
KLK5	0	0	0	0	0	0
KLK6	0	0	0	0	0	0
KLK7	0	0	0	0	0	0
KLK8	0	0	0	0	0	0
KLK9	0	0	0	0	0	0
KLKB1	0	1	2	6	4	3
KLKP1	0	0	0	0	0	0
KLLN	0	2	0	1	9	0
KLRB1	257	244	220	446	456	459
KLRC1	64	56	53	117	95	89
KLRC2	37	47	44	40	54	51
KLRC3	0	0	0	0	0	0
KLRC4	7	1	6	0	4	0
KLRC4-KLRK1	6	2	3	22	7	8
KLRD1	365	364	434	261	359	199
KLRF1	167	163	148	171	234	147
KLRF2	0	0	0	0	0	0
KLRG1	90	100	79	66	131	103
KLRG2	0	0	0	0	0	0
KLRK1	0	0	0	0	0	0
KMO	95	102	104	31	52	40
KNCN	0	0	0	0	0	0
KNDC1	0	0	0	0	0	0
KNG1	1	1	0	4	0	19
KNTC1	23	28	37	60	46	84
KPNA1	130	146	144	213	199	251
KPNA2	80	82	37	53	60	51
KPNA3	221	181	203	203	179	143
KPNA4	328	335	346	286	340	335
KPNA5	252	265	277	509	491	591
KPNA6	135	115	146	237	158	241
KPNA7	0	0	0	0	0	0
KPNB1	996	984	1001	1082	1003	953
KPRP	0	0	0	0	0	0
KPTN	4	11	1	0	0	0
KRAS	478	517	456	345	394	405
KRBA1	4	8	11	1	7	0
KRBA2	4	5	3	19	24	13
KRBOX1	0	0	0	4	0	0
KRCC1	405	421	395	944	850	1078
KREMEN1	6	14	12	0	4	8
KREMEN2	0	0	0	0	0	0
KRI1	49	54	57	84	38	30
KRIT1	69	65	52	117	97	117
KRR1	331	359	393	590	556	681
KRT1	13	9	8	34	52	40
KRT10	204	188	197	199	212	213
KRT12	0	0	0	0	0	0
KRT13	0	0	0	0	0	0
KRT14	0	0	0	0	0	0
KRT15	0	0	0	0	0	0
KRT16	0	0	0	0	0	0
KRT16P2	0	0	0	0	0	0
KRT16P3	0	0	0	0	0	0
KRT17	0	0	0	0	0	0
KRT18	0	0	0	0	0	0
KRT18P55	0	0	0	0	0	0
KRT19	0	0	0	0	0	0
KRT19P2	0	0	0	0	0	0
KRT2	0	5	3	0	0	0
KRT20	0	0	0	0	0	0
KRT222	11	16	8	82	52	117
KRT23	0	4	0	9	9	30
KRT24	0	0	0	0	0	0
KRT25	0	0	0	0	0	0
KRT26	1	1	0	9	0	19
KRT27	0	0	0	0	0	0
KRT28	0	0	0	0	0	0
KRT3	0	0	0	0	0	0
KRT31	0	0	0	0	0	0
KRT32	0	0	0	0	0	0
KRT33A	0	0	0	0	0	0
KRT33B	0	0	0	0	0	0
KRT34	0	0	0	0	0	0
KRT35	0	0	0	0	0	0
KRT36	0	0	0	0	0	0
KRT37	0	0	0	0	0	0
KRT38	0	0	0	0	0	0
KRT39	1	0	0	0	0	0
KRT4	0	0	0	0	0	0
KRT40	0	0	0	0	0	0
KRT42P	0	0	0	0	0	0
KRT5	1	0	1	0	0	0
KRT6A	0	0	0	0	0	0
KRT6B	0	0	0	0	0	0
KRT6C	0	0	0	0	0	0
KRT7	1	0	0	0	0	0
KRT71	0	0	0	0	0	0

KRT72	19	24	28	40	38	24
KRT73	9	13	8	19	0	13
KRT74	0	0	0	0	0	3
KRT75	0	0	0	0	0	0
KRT76	0	0	0	0	0	0
KRT77	0	0	0	0	0	0
KRT78	0	0	0	0	0	0
KRT79	0	0	0	0	0	0
KRT8	0	0	0	1	2	13
KRT80	0	0	0	0	0	0
KRT81	0	0	0	0	0	0
KRT82	0	0	0	0	0	0
KRT83	0	0	0	0	0	0
KRT84	0	0	0	0	0	0
KRT85	0	0	0	0	0	0
KRT86	19	17	9	0	12	8
KRT8P41	0	0	0	0	0	0
KRT9	0	0	0	0	0	0
KRTAP1-1	0	0	0	0	0	0
KRTAP1-3	0	0	0	0	0	0
KRTAP1-5	0	0	0	0	0	0
KRTAP10-1	0	0	0	0	0	0
KRTAP10-10	0	0	0	0	0	0
KRTAP10-11	0	0	0	0	0	0
KRTAP10-12	0	0	0	0	0	0
KRTAP10-2	0	0	0	0	0	0
KRTAP10-3	0	0	0	0	0	0
KRTAP10-4	0	0	0	0	0	0
KRTAP10-5	0	0	0	0	0	0
KRTAP10-6	0	0	0	0	0	0
KRTAP10-7	0	0	0	0	0	0
KRTAP10-8	0	0	0	0	0	0
KRTAP10-9	0	0	0	0	0	0
KRTAP11-1	0	0	0	0	0	0
KRTAP12-1	0	0	0	0	0	0
KRTAP12-2	0	0	0	0	0	0
KRTAP12-3	0	0	0	0	0	0
KRTAP12-4	0	0	0	0	0	0
KRTAP13-1	0	0	0	0	0	0
KRTAP13-2	0	0	0	0	0	0
KRTAP13-3	0	0	0	0	0	0
KRTAP13-4	0	0	0	0	0	0
KRTAP15-1	0	0	0	0	0	0
KRTAP16-1	0	0	0	0	0	0
KRTAP17-1	0	0	0	0	0	0
KRTAP19-1	0	0	0	0	0	0
KRTAP19-2	0	0	0	0	0	0
KRTAP19-3	0	0	0	0	0	0
KRTAP19-4	0	0	0	1	0	0
KRTAP19-5	0	0	0	0	0	0
KRTAP19-6	0	0	0	0	0	0
KRTAP19-7	0	0	0	0	0	0
KRTAP19-8	0	0	0	0	0	0
KRTAP2-1	0	0	0	0	0	0
KRTAP2-2	0	0	0	0	0	0
KRTAP2-4	0	0	0	0	0	0
KRTAP20-1	0	0	0	0	0	0
KRTAP20-2	0	0	0	0	0	0
KRTAP20-3	0	0	0	0	0	0
KRTAP20-4	0	0	0	0	0	0
KRTAP21-1	0	0	0	0	0	0
KRTAP21-2	0	0	0	0	0	0
KRTAP21-3	0	0	0	0	0	0
KRTAP22-1	0	0	0	0	0	0
KRTAP22-2	0	0	0	0	0	0
KRTAP23-1	0	0	0	0	0	0
KRTAP24-1	0	0	0	0	0	0
KRTAP25-1	0	0	0	0	0	0
KRTAP26-1	0	0	0	0	0	0
KRTAP27-1	0	0	0	0	0	0
KRTAP3-1	0	0	0	0	0	0
KRTAP3-2	0	0	0	0	0	0
KRTAP3-3	0	0	0	0	0	0
KRTAP4-1	0	0	0	0	0	0
KRTAP4-11	0	0	0	0	0	0
KRTAP4-12	0	0	0	0	0	0
KRTAP4-2	0	0	0	0	0	0
KRTAP4-3	0	0	0	0	0	0
KRTAP4-4	0	0	0	0	0	0
KRTAP4-5	0	0	0	0	0	0
KRTAP4-6	0	0	0	0	0	0
KRTAP4-7	0	0	0	0	0	0
KRTAP4-8	0	0	0	0	0	0
KRTAP4-9	0	0	0	0	0	0
KRTAP5-1	0	0	0	0	0	0
KRTAP5-10	0	0	0	0	0	0
KRTAP5-11	0	0	0	0	0	0
KRTAP5-2	0	0	0	0	0	0
KRTAP5-3	0	0	0	0	0	0
KRTAP5-4	0	0	0	0	0	0
KRTAP5-5	0	0	0	0	0	0
KRTAP5-6	0	0	0	0	0	0
KRTAP5-7	0	0	0	0	0	0
KRTAP5-8	0	0	0	0	0	0
KRTAP5-9	0	0	0	1	0	0
KRTAP6-1	0	0	0	0	0	0
KRTAP6-2	0	0	0	0	0	0
KRTAP6-3	0	0	0	0	0	0
KRTAP7-1	0	0	0	0	0	0
KRTAP8-1	0	0	0	0	0	0
KRTAP9-1	0	0	0	0	0	0
KRTAP9-2	0	0	0	0	0	0
KRTAP9-3	0	0	0	0	0	0

KRTAP9-4	0	0	0	0	0	0
KRTAP9-8	0	0	0	0	0	0
KRTAP9-9	0	0	0	0	0	0
KRTCAP2	12	9	14	4	12	3
KRTCAP3	14	6	8	13	9	3
KRTDAP	0	0	0	0	0	0
KSR1	75	63	65	48	67	8
KSR2	0	0	5	4	4	0
KT112	34	26	23	13	18	24
KTN1	1609	1478	1478	1380	1340	1436
KTN1-AS1	0	0	0	0	0	0
KXD1	153	131	151	165	137	143
KY	0	0	0	0	0	0
KYNU	291	350	301	40	79	103
L1CAM	4	0	1	1	9	13
L1TD1	0	4	0	1	2	8
L2HGDH	18	19	15	25	41	30
L3MBTL1	11	11	17	25	18	40
L3MBTL2	44	63	61	72	77	30
L3MBTL3	125	105	109	177	120	165
L3MBTL4	23	17	15	19	15	46
LACC1	475	460	438	9	15	8
LACRT	0	0	0	0	0	0
LACTB	658	613	579	226	210	285
LACTB2	104	93	77	56	69	66
LAD1	4	0	1	0	0	0
LAG3	10	13	11	6	12	3
LAGE3	36	49	34	9	41	0
LAIR1	72	79	89	40	33	19
LAIR2	2	0	2	9	4	0
LALBA	0	0	0	0	0	0
LAMA1	0	1	0	13	41	56
LAMA2	0	0	5	4	2	8
LAMA3	1	0	0	4	2	13
LAMA4	0	0	1	1	0	3
LAMA5	10	2	11	25	9	98
LAMB1	2	0	0	0	0	3
LAMB2	2	0	0	4	0	24
LAMB3	1	0	0	0	0	0
LAMB4	0	0	0	1	12	8
LAMC1	14	12	12	9	0	3
LAMC2	0	0	0	0	0	0
LAMC3	0	0	0	0	0	0
LAMP1	867	895	920	685	620	604
LAMP2	956	902	902	380	402	428
LAMP3	34	32	36	9	15	8
LAMP5	0	0	2	0	0	0
LAMTOR1	364	322	307	239	257	249
LAMTOR2	102	111	104	48	75	24
LAMTOR3	192	162	164	134	142	98
LANCL1	90	122	103	125	100	98
LANCL2	23	31	22	43	30	46
LANCL3	4	5	2	0	4	0
LAP3	630	562	542	76	49	66
LAPTM4A	1571	1710	1558	876	1016	794
LAPTM4B	7	12	8	19	9	8
LAPTM5	1455	1585	1717	1545	1571	1499
LARP1	495	490	497	463	438	550
LARP1B	150	129	119	141	142	176
LARP4	124	148	129	167	131	182
LARP4B	423	362	374	573	533	579
LARP6	0	0	0	1	0	0
LARP7	631	594	631	512	498	569
LARS	272	298	270	375	316	337
LARS2	37	42	31	53	54	30
LAS1L	49	45	42	95	65	56
LASP1	917	916	851	522	598	447
LAT	21	28	36	58	35	51
LAT2	190	201	175	93	108	117
LATS1	303	301	304	329	304	415
LATS2	162	144	152	90	57	89
LAX1	20	19	11	48	75	56
LAYN	10	9	5	9	2	0
LBH	718	740	640	1278	1228	956
LBP	0	0	0	0	0	0
LBR	523	493	482	633	574	607
LBX1	0	0	0	0	0	0
LBX2	0	0	0	0	0	0
LCA5	1	1	3	4	4	8
LCA5L	0	1	2	0	0	0
LCAT	2	4	0	0	0	0
LCE1A	0	0	0	0	0	0
LCE1B	0	0	0	0	0	0
LCE1C	0	0	0	0	0	0
LCE1D	0	0	0	0	0	0
LCE1E	0	0	0	0	0	0
LCE1F	0	0	0	0	0	0
LCE2A	0	0	0	0	0	0
LCE2B	0	0	0	0	0	0
LCE2C	0	0	0	0	0	0
LCE2D	0	0	0	0	0	0
LCE3A	0	0	0	0	0	0
LCE3B	0	0	0	0	0	0
LCE3C	0	0	0	0	0	0
LCE3D	0	0	0	0	0	0
LCE3E	0	0	0	0	0	0
LCE4A	0	0	0	0	0	0
LCE5A	0	0	0	0	0	0
LCE6A	0	0	0	0	0	0
LCK	173	139	152	228	276	249
LCLAT1	66	66	72	82	100	89
LCMT1	42	41	47	58	52	61
LCMT2	20	31	17	76	84	75

LCN1	0	0	0	0	0	0
LCN10	0	0	0	0	0	0
LCN12	0	0	0	0	0	0
LCN15	0	0	0	0	0	3
LCN2	1	4	1	13	4	0
LCN6	0	0	0	0	0	0
LCN8	0	0	0	0	0	0
LCN9	0	0	0	0	0	0
LCNL1	1	0	0	1	0	8
LCOR	381	366	397	241	238	305
LCORL	214	208	233	149	135	136
LCP1	1682	1769	1609	1153	1260	1170
LCP2	468	477	515	424	431	400
LCT	0	0	0	1	2	0
LCTL	0	0	0	0	0	0
LDB1	52	52	65	31	57	56
LDB2	10	12	9	9	4	13
LDB3	0	0	0	4	9	30
LDHA	683	769	622	463	748	393
LDHAL6A	0	0	0	0	2	3
LDHAL6B	0	0	0	6	0	19
LDHB	442	462	537	947	872	846
LDHC	0	0	0	25	0	24
LDHD	2	0	2	0	0	0
DLR	80	120	111	48	46	8
DLRAD1	0	0	0	1	0	0
DLRAD2	0	0	0	0	0	0
DLRAD3	35	38	37	0	4	0
DLRAP1	172	187	166	145	181	46
DOCI	14	8	11	25	30	13
LEAP2	5	4	3	45	38	24
LECT2	0	0	0	0	0	0
LEF1	406	385	345	930	718	808
LEFTY1	0	0	0	6	9	0
LEFTY2	0	0	0	6	0	0
LEKR1	1	2	2	19	2	51
LELP1	0	0	0	0	0	0
LEMD1	0	0	0	0	2	8
LEMD2	52	42	65	110	100	94
LEMD3	324	298	273	394	433	459
LENIP	0	0	0	0	0	0
LENG1	26	25	32	13	18	24
LENG8	46	39	58	51	49	71
LENG9	0	0	0	0	0	0
LEO1	192	132	126	79	100	79
LEP	1	0	1	13	4	66
LEPR	31	22	28	31	46	56
LEPROT	363	289	289	163	140	121
LEPROTL1	801	796	683	1153	1171	1052
LETM1	80	60	65	58	49	75
LETM2	2	1	2	22	9	24
LETMID1	60	67	63	119	127	165
LEUTX	0	0	0	0	0	0
LFNG	123	162	182	106	131	136
LGALS1	285	297	246	31	54	40
LGALS12	1	2	1	0	0	0
LGALS13	0	0	0	0	0	0
LGALS14	0	0	0	0	0	0
LGALS16	0	0	0	0	0	0
LGALS2	85	102	136	0	0	0
LGALS3	1688	1579	1540	190	242	203
LGALS3BP	20	12	24	9	7	3
LGALS4	0	0	0	4	9	13
LGALS7	0	0	0	0	0	0
LGALS7B	0	0	0	0	0	0
LGALS8	467	456	462	515	447	511
LGALS8-AS1	0	0	0	0	0	0
LGALS9	111	107	69	16	12	3
LGALS9B	0	0	0	1	0	0
LGALS9C	0	0	0	0	0	0
LGALS9L	0	0	0	4	7	19
LGI1	0	0	0	0	0	8
LGI2	0	0	0	0	0	0
LGI3	0	0	0	0	0	0
LGI4	0	4	0	9	2	19
LGMN	72	88	87	31	24	13
LGR4	10	5	3	22	12	40
LGR5	1	0	0	0	0	0
LGR6	24	26	23	34	43	24
LGSN	2	2	0	19	18	35
LHB	0	0	0	0	0	0
LHCGR	0	0	0	0	0	0
LHFP11	0	0	0	0	0	0
LHFP12	506	530	607	6	41	40
LHFP13	0	0	0	0	0	0
LHFP14	0	0	0	1	7	3
LHFP15	0	0	0	1	0	0
LHPP	9	19	7	0	7	3
LHX1	0	5	2	22	43	103
LHX2	1	0	11	4	2	3
LHX3	0	0	0	1	2	3
LHX4	0	0	0	9	0	0
LHX5	0	0	0	0	0	3
LHX6	0	0	0	0	0	0
LHX8	0	1	0	0	0	0
LHX9	2	4	5	19	33	75
LJAS	45	35	34	60	57	89
LIF	0	0	1	0	0	0
LIFR	0	5	3	34	27	71
LIG1	54	78	93	84	95	71
LIG3	98	76	89	74	75	89
LIG4	69	54	82	134	90	132
LILRA1	31	12	16	0	0	0

LILRA2	77	82	95	0	0	0
LILRA4	7	6	2	0	0	3
LILRA5	9	17	5	0	0	0
LILRA6	46	52	66	0	7	0
LILRB1	122	122	128	37	27	35
LILRB2	504	518	653	19	30	19
LILRB3	173	181	154	0	9	3
LILRB4	333	349	388	0	9	19
LILRB5	10	5	6	0	0	0
LILRP2	0	0	0	0	0	0
LIM2	1	0	0	0	7	3
LIMA1	142	114	105	69	38	56
LIMCH1	1	5	0	13	12	30
LIMD1	59	62	60	43	49	56
LIMD2	166	163	177	197	219	124
LIME1	0	0	0	0	0	0
LIMK1	44	46	36	19	21	0
LIMK2	47	70	46	48	67	46
LIMS1	617	593	528	182	221	199
LIMS2	0	0	0	1	2	0
LIMS3	0	0	0	0	0	0
LIN28A	0	0	0	0	0	0
LIN28B	2	0	0	1	0	0
LIN37	0	1	1	4	0	0
LIN52	80	90	91	87	84	75
LIN54	65	74	48	103	103	94
LIN7A	5	8	14	0	0	0
LIN7B	13	14	11	1	0	8
LIN7C	155	154	151	127	155	139
LIN9	28	28	21	37	33	75
LINC00028	0	0	0	0	0	0
LINC00029	0	0	0	0	0	0
LINC00032	0	0	0	0	0	0
LINC00051	0	0	0	0	0	0
LINC00052	0	0	0	0	0	0
LINC00092	0	0	0	0	0	0
LINC00102	0	0	0	0	0	0
LINC00111	0	0	0	0	0	0
LINC00112	0	0	0	0	0	0
LINC00113	0	0	0	0	0	3
LINC00114	0	0	0	0	0	0
LINC00115	2	6	5	22	7	19
LINC00158	0	4	0	1	0	0
LINC00159	0	0	0	0	0	0
LINC00160	0	0	0	0	0	0
LINC00161	0	0	0	0	0	0
LINC00163	0	0	0	0	0	0
LINC00167	0	0	0	0	0	0
LINC00173	7	12	12	25	24	19
LINC00174	12	11	9	40	15	46
LINC00184	0	0	0	0	0	0
LINC00189	0	0	0	0	0	0
LINC00200	0	0	0	0	0	0
LINC00207	0	0	0	0	0	0
LINC00208	0	0	0	0	0	0
LINC00221	0	0	0	0	0	0
LINC00222	0	0	0	0	0	0
LINC00226	0	0	0	0	0	0
LINC00229	0	0	0	0	0	0
LINC00240	0	0	0	0	2	0
LINC00242	0	0	0	0	7	0
LINC00261	0	0	0	0	0	0
LINC00265	0	0	0	1	0	0
LINC00266-1	0	0	0	0	0	0
LINC00271	0	0	0	0	0	3
LINC00272	0	0	0	0	0	0
LINC00273	0	0	0	0	0	0
LINC00284	0	0	0	0	0	0
LINC00290	0	0	0	0	0	0
LINC00293	0	0	0	0	0	0
LINC00299	1	0	2	1	0	8
LINC00301	0	0	0	6	2	19
LINC00303	0	0	0	0	0	0
LINC00304	0	0	0	19	7	35
LINC00305	0	0	0	0	0	0
LINC00307	0	0	0	0	0	0
LINC00308	0	0	0	0	0	0
LINC00309	1	0	0	0	0	0
LINC00310	0	0	0	1	0	3
LINC00311	0	0	0	0	0	0
LINC00313	0	0	0	0	0	0
LINC00314	0	0	0	0	7	0
LINC00315	0	0	0	0	0	0
LINC00317	0	0	0	0	0	0
LINC00319	0	0	0	0	0	0
LINC00320	0	0	0	0	0	0
LINC00323	0	0	0	0	0	0
LINC00324	66	73	65	132	95	154
LINC00326	0	0	2	0	0	0
LINC00327	0	0	0	0	0	0
LINC00330	0	0	0	1	0	3
LINC00336	0	0	0	0	0	0
LINC00339	7	15	20	34	27	71
LINC00346	0	0	0	0	0	0
LINC00347	4	9	5	37	43	46
LINC00410	0	0	0	0	0	0
LINC00421	0	0	0	0	0	0
LINC00426	25	20	24	34	27	3
LINC00442	0	0	0	0	0	0
LINC00460	0	0	0	0	0	0
LINC00461	9	12	13	82	87	132
LINC00466	0	0	0	0	0	0
LINC00467	13	14	21	63	54	84

LINC00469	0	0	0	0	0	0
LINC00470	0	5	0	34	24	46
LINC00471	0	0	0	0	0	0
LINC00472	0	0	0	0	2	3
LINC00474	0	0	0	0	0	0
LINC00475	0	0	0	0	0	3
LINC00476	26	26	31	108	57	79
LINC00477	0	0	0	0	0	0
LINC00479	0	0	0	0	0	0
LINC00482	0	0	0	0	0	0
LINC00485	1	0	0	4	0	0
LINC00486	0	0	0	0	0	0
LINC00487	0	0	0	0	0	0
LINC00488	1	0	0	0	0	0
LINC00494	4	4	2	0	4	0
LINC00511	5	11	6	37	38	66
LINC00514	0	0	0	0	0	0
LINC00515	0	0	0	0	0	0
LINC00518	0	0	0	0	0	0
LINC00520	2	0	2	4	12	8
LINC00523	0	0	0	0	0	0
LINC00525	0	0	0	0	0	0
LINC00526	15	11	14	19	24	30
LINC00535	0	0	0	0	0	0
LINC00536	0	0	0	0	0	0
LINC00552	0	0	0	0	0	0
LINC00574	0	0	0	1	0	0
LINC00575	0	0	0	0	0	0
LINGO1	0	0	0	0	0	0
LINGO2	1	0	0	6	4	0
LINGO3	0	0	0	0	0	0
LINGO4	0	0	0	0	0	0
LIPA	1058	1075	1001	134	158	107
LIPC	2	0	3	19	9	51
LIPF	11	8	6	9	21	8
LIPF	0	0	0	0	0	0
LIPG	0	2	0	1	2	8
LIPH	2	0	0	6	18	19
LIPJ	0	0	0	0	0	3
LIPJ	0	0	0	0	0	0
LIPK	0	0	0	0	0	0
LIPM	0	0	0	0	0	0
LIPN	0	0	0	0	0	0
LIPT1	41	38	36	60	57	51
LIPT2	2	1	6	0	0	0
LITAF	835	960	933	732	922	789
LIX1	0	0	0	0	0	19
LIX1L	178	174	133	149	124	107
LLGL1	49	34	41	28	46	40
LLGL2	48	50	57	43	43	8
LLPH	148	141	123	184	135	207
LMAN1	465	487	465	592	608	550
LMAN1L	0	0	0	0	0	0
LMAN2	305	374	391	243	265	227
LMAN2L	11	19	17	13	18	8
LMBR1	52	69	52	98	72	79
LMBR1L	56	62	77	129	106	117
LMBRD1	378	411	448	360	354	352
LMBRD2	206	193	199	213	223	213
LMCD1	2	1	3	22	4	19
LMF1	7	8	6	9	12	0
LMF2	58	48	53	51	27	24
MLN	34	29	31	108	82	94
LMNA	193	249	226	22	46	3
LMNB1	190	169	192	93	87	117
LMNB2	68	60	55	63	41	24
LMO1	0	0	0	0	0	0
LMO2	55	58	41	0	2	24
LMO3	2	0	1	1	15	30
LMO4	274	250	252	147	203	132
LMO7	88	83	111	157	158	162
LMOD1	0	0	0	0	0	0
LMOD2	0	0	0	0	0	0
LMOD3	0	1	0	4	4	3
LMTK2	15	17	24	16	41	3
LMTK3	2	2	9	0	7	0
LMX1A	1	0	0	0	0	0
LMX1B	0	0	0	0	0	0
LNP1	1	1	0	43	30	71
LNPEP	639	575	661	580	595	579
LNK1	0	2	0	16	7	51
LNK2	66	39	41	93	57	51
LOH12CR2	2	4	1	0	0	0
LONP1	48	62	91	76	75	71
LONP2	205	213	225	278	219	329
LONRF1	166	163	151	84	95	112
LONRF2	5	2	3	9	2	8
LONRF3	0	4	3	1	0	0
LOR	0	0	0	0	0	0
LOX	0	0	0	0	0	0
LOXHD1	0	0	0	0	0	0
LOXL1	2	4	7	9	7	0
LOXL2	4	5	3	37	24	46
LOXL3	22	15	28	0	0	0
LOXL4	0	0	0	0	2	0
LPA	2	0	0	0	2	0
LPAL2	4	0	5	13	0	0
LPAR1	50	60	52	0	2	0
LPAR2	51	63	43	134	124	89
LPAR3	1	2	1	6	7	0
LPAR4	2	4	0	9	18	40
LPAR5	14	20	21	48	41	19
LPAR6	402	373	351	250	225	291

LPCAT1	54	62	83	63	79	79
LPCAT2	170	143	123	1	4	13
LPCAT3	49	57	35	9	15	13
LPCAT4	12	40	51	37	30	0
LPGAT1	395	305	369	171	155	121
LPIN1	121	120	132	325	304	379
LPIN2	308	255	293	336	376	393
LPIN3	0	2	0	0	0	0
LPL	18	24	3	1	4	3
LPO	0	0	0	0	2	0
LPP	233	220	279	76	79	124
LPP-AS2	0	1	0	0	2	0
LPXN	345	380	355	406	436	400
LRAT	5	7	2	56	65	121
LRBA	78	72	111	165	140	173
LRCH1	106	122	96	192	172	124
LRCH2	0	0	0	0	0	0
LRCH3	173	159	209	195	189	199
LRCH4	0	0	1	1	0	0
LRFN1	13	9	12	95	67	46
LRFN2	1	0	1	4	0	0
LRFN3	6	8	15	0	0	0
LRFN4	10	8	6	0	0	0
LRFN5	0	0	1	0	2	3
LRG1	4	16	5	0	0	3
LRGUK	0	1	0	1	0	0
LRIF1	266	220	213	219	265	233
LRIG1	111	93	104	190	195	179
LRIG2	51	47	48	87	65	128
LRIG3	0	0	0	0	0	0
LRIT1	0	0	0	0	0	0
LRIT2	0	0	0	0	0	3
LRIT3	1	0	0	0	0	0
LRMP	160	141	149	161	193	112
LRP1	183	177	189	9	2	13
LRP10	188	209	212	167	158	165
LRP11	0	0	0	0	0	0
LRP12	31	30	39	37	18	66
LRP1B	4	1	5	6	0	30
LRP2	2	1	1	4	0	0
LRP2BP	10	8	14	34	52	117
LRP3	0	0	0	0	0	0
LRP4	0	0	0	0	0	0
LRP5	2	1	0	0	0	0
LRP5L	14	17	13	6	2	0
LRP6	7	8	13	25	30	35
LRP8	70	61	75	48	52	24
LRPAP1	240	277	296	93	111	84
LRPPRC	219	241	279	363	350	397
LRR1	119	127	129	132	142	176
LRRC1	11	11	6	40	27	66
LRRC10	0	0	0	0	0	0
LRRC10B	0	0	0	0	0	0
LRRC14	26	21	31	45	60	46
LRRC14B	0	0	0	0	0	0
LRRC15	0	0	0	0	0	0
LRRC17	4	0	1	34	12	30
LRRC18	0	0	0	0	0	0
LRRC19	0	0	0	0	0	0
LRRC2	4	1	5	6	9	13
LRRC20	0	0	0	0	0	0
LRRC23	9	20	13	16	24	13
LRRC24	0	0	1	0	0	0
LRRC25	12	16	7	0	0	0
LRRC26	0	0	0	0	0	0
LRRC27	4	5	8	9	4	0
LRRC28	20	26	34	25	46	40
LRRC29	0	0	0	0	0	0
LRRC3	5	9	12	0	0	0
LRRC30	0	0	0	0	0	0
LRRC31	0	0	0	0	0	0
LRRC32	2	4	5	1	0	0
LRRC34	6	0	2	4	2	8
LRRC36	0	0	0	1	0	3
LRRC37A	0	0	0	0	0	0
LRRC37A2	2	6	0	4	7	0
LRRC37A3	0	1	0	6	7	19
LRRC37B	37	31	25	45	24	40
LRRC37BP1	28	25	22	28	30	13
LRRC38	0	0	0	0	0	0
LRRC39	2	0	1	13	9	0
LRRC3B	0	1	0	6	9	35
LRRC3C	0	0	0	0	0	0
LRRC4	6	8	3	0	0	0
LRRC40	108	106	93	106	87	75
LRRC41	75	58	72	72	69	71
LRRC42	46	52	40	19	43	0
LRRC43	0	0	0	0	0	0
LRRC45	5	6	3	1	7	0
LRRC46	0	0	0	0	0	0
LRRC47	184	216	183	331	330	288
LRRC49	1	0	2	1	4	8
LRRC4B	0	0	0	0	0	0
LRRC4C	0	0	0	4	7	0
LRRC52	0	0	0	0	0	0
LRRC55	0	0	0	0	0	0
LRRC56	0	1	2	1	2	13
LRRC57	50	32	36	9	18	35
LRRC58	200	194	221	187	155	196
LRRC59	99	98	103	45	57	103
LRRC6	11	7	6	45	9	61
LRRC61	0	4	1	0	0	0
LRRC66	0	0	1	0	0	3

LRRC69	4	4	6	22	4	30
LRRC7	1	2	0	1	21	3
LRRC70	0	0	0	0	0	0
LRRC71	0	0	0	0	0	0
LRRC72	6	8	3	37	46	46
LRRC73	0	0	0	0	0	0
LRRC8A	82	88	82	82	87	79
LRRC8B	30	17	23	37	30	24
LRRC8C	234	238	241	288	285	261
LRRC8D	243	237	219	281	297	325
LRRC8E	0	0	0	6	2	19
LRRCC1	79	67	60	76	69	61
LRRD1	0	0	0	0	0	0
LRRFIP1	796	711	772	351	424	317
LRRFIP2	197	203	204	252	191	210
LRRIQ1	2	2	2	22	18	19
LRRIQ3	5	7	2	4	12	19
LRRIQ4	0	0	0	0	0	0
LRRK1	46	31	34	13	7	19
LRRK2	527	497	535	43	46	75
LRRN1	0	1	0	1	0	0
LRRN2	0	0	0	0	2	3
LRRN3	109	104	108	321	276	279
LRRN4	0	0	0	0	0	0
LRRN4CL	0	0	0	0	0	0
LRRTM1	0	0	0	0	0	0
LRRTM2	0	0	5	45	21	51
LRRTM3	0	0	0	0	0	0
LRRTM4	4	1	3	6	4	46
LRSAM1	5	6	9	9	4	8
LRTM1	0	1	0	9	2	3
LRTM2	0	0	0	0	0	0
LRTOMT	1	5	1	1	9	0
LRWD1	4	7	5	22	15	3
LSAMP	4	4	11	19	9	24
LSG1	143	127	135	206	174	179
LSM1	75	67	59	76	82	61
LSM10	93	87	78	56	72	40
LSM11	21	20	14	19	12	8
LSM12	0	0	1	0	0	0
LSM14A	589	542	476	580	635	595
LSM14B	200	208	206	163	187	121
LSM2	89	80	76	51	75	8
LSM3	134	131	129	123	166	89
LSM4	96	84	83	108	84	103
LSM5	203	190	163	360	380	329
LSM6	190	203	162	143	177	103
LSM7	98	67	95	79	117	94
LSP1	317	281	353	167	230	139
LSR	47	50	65	74	87	66
LS5	17	16	15	0	4	8
LS71	163	162	149	232	124	365
LTA	28	33	34	66	87	139
LTA4H	825	826	795	280	290	251
LTB	2216	2352	2807	2769	2873	2467
LTB4R	38	13	42	95	46	112
LTB4R2	5	0	1	0	0	0
LTBP1	0	0	1	0	4	3
LTBP2	2	0	2	63	24	103
LTBP3	36	60	72	93	87	98
LTBP4	13	12	13	4	15	0
LTBR	83	128	123	1	4	0
LTC4S	0	0	0	0	0	0
LTF	5	6	13	22	18	13
LTK	0	0	1	0	0	0
LTN1	292	265	268	286	279	264
LTV1	143	128	173	190	193	199
LUC7L	270	309	334	583	436	400
LUC7L2	229	280	309	489	424	503
LUC7L3	1967	1789	2216	2680	2012	2604
LUM	0	0	0	0	0	3
LURAP1	0	0	0	0	0	0
LURAP1L	0	0	0	0	0	0
LUZP1	147	111	142	171	151	224
LUZP2	4	1	2	19	27	40
LUZP4	0	0	0	0	0	0
LUZP6	0	0	0	0	0	0
LXN	10	17	21	1	2	0
LY6D	0	0	0	0	0	0
LY6E	49	32	51	19	21	30
LY6G5B	0	0	0	0	0	0
LY6G5C	0	4	2	4	4	3
LY6G6C	0	0	0	0	0	0
LY6G6D	0	0	0	0	0	0
LY6G6E	0	0	0	0	0	0
LY6G6F	0	0	0	0	0	0
LY6H	0	0	0	0	0	0
LY6K	0	0	0	0	0	0
LY75	173	188	198	199	140	89
LY75-CD302	0	0	0	0	0	0
LY86	50	71	50	58	7	13
LY86-AS1	0	0	3	6	12	35
LY9	88	81	72	108	142	79
LY96	101	115	94	31	38	35
LYAR	292	277	261	427	417	438
LYG1	4	0	0	0	2	3
LYG2	0	0	0	16	2	24
LYL1	32	25	23	16	9	8
LYN	1042	1109	1102	293	365	329
LYNX1	0	0	0	0	0	0
LYPD1	2	0	1	0	2	8
LYPD2	0	0	0	0	0	0
LYPD3	5	6	5	6	9	19

LYPD4	0	0	0	0	0	0
LYPD5	0	0	0	0	0	0
LYPD6	0	0	0	0	0	0
LYPD6B	0	0	0	0	0	8
LYPLA1	329	336	287	203	245	213
LYPLA2	109	154	135	110	97	66
LYPLA11	58	62	47	34	35	35
LYRM1	37	40	37	114	84	117
LYRM2	124	134	101	114	90	117
LYRM4	38	42	46	98	97	103
LYRM7	212	191	202	268	245	245
LYSMD1	2	5	5	0	7	0
LYSMD2	382	351	326	313	314	264
LYSMD3	143	130	116	151	158	147
LYSMD4	6	4	2	0	0	3
LYST	689	717	802	1105	1085	930
LYVE1	0	0	0	0	0	0
LYZ	8884	8884	8884	129	201	139
LYZL1	0	0	0	0	0	0
LYZL2	0	0	0	0	0	0
LYZL4	0	0	0	0	0	0
LYZL6	0	0	0	0	0	0
LZIC	134	106	94	125	106	61
LZTFL1	48	43	42	56	62	46
LZTR1	26	22	25	45	30	19
LZTS1	6	4	0	0	9	0
LZTS2	30	57	61	58	62	35
M6PR	184	175	186	98	111	139
MAB21L1	0	0	0	0	0	0
MAB21L2	0	0	0	0	0	0
MAB21L3	0	0	0	0	2	0
MACC1	6	1	5	9	18	24
MACF1	770	814	824	597	551	607
MACROD1	0	0	2	1	0	0
MACROD2	10	11	8	48	49	89
MACROD2-AS1	0	0	0	0	0	0
MAD1L1	31	26	16	25	18	30
MAD2L1	45	48	40	87	67	112
MAD2L1BP	44	32	34	56	62	66
MAD2L2	40	50	57	9	27	0
MADCAM1	0	0	0	1	0	0
MADD	66	54	68	82	69	79
MAEA	197	200	237	309	288	288
MAEL	2	2	0	16	15	19
MAF	518	444	471	259	295	241
MAF1	55	43	63	69	95	56
MAFA	0	0	0	1	0	13
MAFB	929	947	935	19	12	3
MAFF	100	102	79	60	41	79
MAFG	433	491	494	476	525	554
MAFK	36	37	42	58	65	66
MAG	0	0	0	0	0	0
MAGEA1	0	0	0	0	0	0
MAGEA10	1	2	0	6	2	3
MAGEA11	0	0	0	0	0	0
MAGEA12	0	0	0	0	0	0
MAGEA2	0	0	0	0	0	0
MAGEA2B	0	0	0	0	0	0
MAGEA3	0	0	0	0	0	0
MAGEA4	0	0	0	0	0	0
MAGEA5	0	0	0	0	0	0
MAGEA6	0	0	0	0	0	0
MAGEA8	0	0	0	0	0	0
MAGEA9	0	0	0	0	0	0
MAGEA9B	0	0	0	1	0	0
MAGEB1	0	0	0	0	0	0
MAGEB10	0	0	0	1	0	0
MAGEB16	0	0	1	0	0	0
MAGEB18	0	1	0	1	0	0
MAGEB2	0	0	0	0	0	0
MAGEB3	0	0	1	1	0	8
MAGEB4	0	0	0	0	0	0
MAGEB6	0	0	0	0	0	0
MAGEC1	0	0	0	0	0	0
MAGEC2	0	0	0	0	0	0
MAGEC3	0	0	0	0	0	0
MAGED1	63	57	25	100	106	79
MAGED2	67	63	55	31	69	46
MAGED4	0	0	0	0	0	0
MAGED4B	0	0	0	0	0	0
MAGEE1	26	22	20	56	41	46
MAGEE2	0	0	0	0	0	0
MAGEF1	60	52	39	167	122	154
MAGEH1	72	71	44	127	92	89
MAGEL2	0	0	0	0	0	0
MAGI1	12	8	11	90	57	94
MAGI2	6	9	9	34	24	56
MAGI2-AS3	2	4	6	9	7	8
MAGI3	24	14	22	4	4	35
MAGIX	2	1	2	0	4	0
MAGOH	278	328	383	455	547	532
MAGOH8	41	29	40	63	49	46
MAGT1	236	204	192	149	168	124
MAK	0	0	2	1	4	8
MAK16	60	65	87	171	127	143
MAL	84	77	91	173	144	121
MAL2	0	0	0	0	0	0
MALAT1	35004	35004	35004	35004	35004	35004
MALL	0	0	0	0	0	0
MALSU1	103	77	95	87	100	75
MALT1	280	275	297	259	245	254
MAMDC2	0	0	0	0	0	0
MAMDC4	6	0	1	0	0	0

MAML1	206	197	164	254	257	196
MAML2	206	203	232	290	236	332
MAML3	32	20	16	13	30	30
MAMLD1	4	0	3	9	2	0
MAMSTR	0	0	0	0	2	0
MAN1A1	177	146	108	90	111	51
MAN1A2	1482	1417	1445	2408	2467	2486
MAN1B1	47	52	84	72	65	35
MAN1C1	77	78	60	132	122	61
MAN2A1	527	533	609	557	569	537
MAN2A2	85	97	112	95	87	89
MAN2B1	9	8	6	0	4	3
MAN2B2	154	151	136	103	97	61
MAN2C1	30	28	24	31	21	35
MANBA	292	305	334	252	240	376
MANBAL	29	25	12	19	9	0
MANEA	61	65	71	16	38	30
MANEAL	4	0	0	1	0	0
MANF	143	146	116	72	122	66
MANSC1	0	0	0	6	0	0
MANSC4	0	0	0	0	0	0
MAOA	0	2	1	0	0	0
MAOB	0	0	0	0	2	0
MAP1A	6	7	6	0	7	8
MAP1B	0	0	0	1	2	24
MAP1LC3A	0	1	1	0	0	3
MAP1LC3B	444	393	364	351	424	365
MAP1LC3B2	9	5	0	9	7	8
MAP1LC3C	0	0	0	0	0	0
MAP1S	11	13	14	4	0	0
MAP2	2	0	6	9	0	8
MAP2K1	253	220	235	206	242	128
MAP2K2	79	111	130	108	72	24
MAP2K3	349	404	358	387	456	345
MAP2K4	106	97	97	127	124	147
MAP2K5	40	55	35	66	69	61
MAP2K6	76	76	71	53	54	51
MAP2K7	72	114	152	112	155	98
MAP3K1	635	619	638	795	772	717
MAP3K10	10	13	11	0	9	0
MAP3K11	51	48	45	25	35	40
MAP3K12	26	34	24	40	49	56
MAP3K13	116	118	115	82	67	75
MAP3K14	38	25	41	19	62	24
MAP3K15	0	0	0	0	4	3
MAP3K2	683	601	616	414	433	435
MAP3K3	204	252	272	147	172	107
MAP3K4	74	74	82	159	137	154
MAP3K5	225	202	190	243	197	251
MAP3K6	2	6	3	1	4	0
MAP3K7	289	289	249	349	385	340
MAP3K8	150	124	135	72	92	103
MAP3K9	2	0	2	1	7	8
MAP4	153	185	209	257	181	173
MAP4K1	24	34	22	66	77	46
MAP4K2	67	74	66	127	115	139
MAP4K3	55	52	57	16	35	13
MAP4K4	346	350	405	529	567	569
MAP4K5	126	100	128	161	144	192
MAP6	0	0	0	0	0	0
MAP6D1	0	0	0	0	0	0
MAP7	9	8	2	4	12	40
MAP7D1	221	208	217	125	135	112
MAP7D2	1	0	0	25	46	40
MAP7D3	133	125	113	76	122	94
MAP9	41	49	35	100	106	112
MAPK1	799	746	798	546	567	385
MAPK10	7	19	9	58	67	121
MAPK11	0	0	0	0	0	0
MAPK12	0	0	0	0	0	0
MAPK13	64	60	53	69	57	51
MAPK14	247	241	322	259	197	237
MAPK15	0	0	0	0	0	0
MAPK1IP1L	585	552	537	520	574	518
MAPK3	26	41	34	34	24	3
MAPK4	0	0	0	1	4	0
MAPK6	160	120	146	72	87	128
MAPK7	12	16	6	0	0	0
MAPK8	76	68	60	34	30	40
MAPK8IP1	0	0	0	0	0	0
MAPK8IP2	0	0	0	13	0	0
MAPK8IP3	44	48	61	90	65	79
MAPK9	110	168	141	129	120	107
MAPKAP1	125	161	109	121	120	165
MAPKAPK2	343	423	374	463	485	470
MAPKAPK3	67	65	58	6	7	3
MAPKAPK5	217	200	166	257	219	251
MAPKBP1	32	41	40	34	49	40
MAPRE1	215	243	177	147	155	185
MAPRE2	183	192	183	215	263	196
MAPRE3	6	4	7	0	0	0
MAPT	6	4	7	9	15	3
MAPT-AS1	0	0	0	1	0	8
01-mar	6	11	7	0	0	0
02-mar	2	0	2	0	2	0
01-mar	550	511	513	103	124	112
10-mar	1	0	2	4	4	19
11-mar	0	0	0	0	0	0
02-mar	20	25	24	9	2	3
03-mar	19	14	21	58	46	79
04-mar	0	0	0	0	0	0
05-mar	126	107	121	129	149	89
06-mar	465	455	471	758	656	743

	07-mar	611	598	589	573	612	616
	08-mar	228	272	272	281	314	285
	09-mar	78	104	109	193	185	169
MARCKS		1604	1675	1564	296	376	297
MARCKSL1		163	189	112	90	72	61
MARCO		0	0	0	0	0	0
MARK1		0	0	1	0	4	0
MARK2		84	88	124	90	135	124
MARK2P9		0	0	0	0	0	0
MARK3		312	265	257	274	246	301
MARK4		18	19	9	13	4	8
MARS		179	190	207	245	212	241
MARS2		42	54	29	51	38	46
MARVELD1		19	31	43	0	0	0
MARVELD2		1	5	3	16	21	56
MARVELD3		0	4	0	0	12	40
MAS1		0	0	0	0	0	0
MAS1L		0	0	0	0	0	0
MASP1		0	0	0	0	0	3
MASP2		0	1	0	0	0	3
MAST1		0	0	0	0	0	0
MAST2		11	4	14	9	9	0
MAST3		24	14	22	13	9	13
MAST4		74	70	88	195	149	143
MASTL		40	42	29	48	72	66
MAT1A		0	0	0	0	0	0
MAT2A		26	46	30	13	18	13
MAT2B		627	702	635	569	678	486
MATK		14	20	23	22	27	30
MATN1		0	0	0	25	4	8
MATN2		2	1	1	6	0	24
MATN3		0	0	0	0	0	0
MATN4		0	0	0	0	0	0
MATR3		6	7	9	5	4	10
MAU2		162	125	122	307	288	237
MAV5		140	192	151	161	147	165
MAX		608	706	546	745	786	721
MAZ		87	115	119	106	144	89
MB		0	0	0	0	0	0
MB21D2		63	48	51	9	15	13
MBD1		137	114	136	141	203	143
MBD2		563	539	569	325	352	261
MBD3		25	22	35	100	82	98
MBD3L1		0	0	1	9	0	3
MBD3L2		0	0	0	0	0	0
MBD3L3		0	0	0	0	0	0
MBD3L4		0	0	0	0	0	0
MBD3L5		0	0	0	0	0	0
MBD4		461	428	466	422	447	369
MBD5		155	178	243	281	249	397
MBD6		87	76	100	56	49	30
MBIP		48	33	34	53	57	75
MBL1P		0	0	0	0	0	0
MBL2		0	0	0	0	0	0
MBLAC1		1	2	2	0	0	0
MBLAC2		55	37	54	82	97	84
MBNL1		2322	2128	2274	1851	1811	1647
MBNL2		114	90	85	119	122	132
MBNL3		195	212	201	250	285	233
MBOAT1		4	5	2	1	4	0
MBOAT2		13	13	22	13	4	0
MBOAT4		0	0	0	0	0	0
MBOAT7		144	167	154	79	75	51
MBP		1142	1186	1133	2041	1883	1942
MBTD1		107	76	82	151	95	136
MBTPS1		146	154	160	199	191	245
MBTPS2		26	23	20	13	21	13
MC1R		0	0	2	9	0	3
MC2R		0	0	0	0	2	0
MC3R		0	0	0	0	0	0
MC4R		0	0	0	0	0	0
MC5R		0	0	0	1	0	0
MCAM		0	5	1	0	9	0
MCAT		5	1	5	1	0	0
MCC		5	4	5	1	0	8
MCCC1		49	35	43	56	65	56
MCCC2		75	66	77	100	100	143
MCCD1		0	0	0	0	0	0
MCEE		17	29	23	19	21	40
MCF2		6	13	6	48	30	40
MCF2L		4	7	9	9	12	3
MCF2L-AS1		1	0	1	1	0	0
MCF2L2		7	14	8	19	24	61
MCFD2		233	197	162	241	230	271
MCHR1		0	0	0	0	0	0
MCHR2		0	0	0	0	0	0
MCL1		1463	1421	1361	1080	1156	1095
MCM10		4	1	0	69	65	136
MCM2		35	24	31	25	33	8
MCM3		136	125	83	153	187	121
MCM3AP		147	148	132	161	142	117
MCM3AP-AS1		9	5	9	9	2	0
MCM4		38	39	32	25	18	3
MCM5		38	43	50	43	12	19
MCM6		80	84	91	90	115	51
MCM7		72	55	47	103	90	84
MCM8		52	46	43	74	82	107
MCM9		45	35	42	72	35	79
MCMBP		174	195	183	211	199	216
MCOLN1		19	40	58	6	12	0
MCOLN2		59	39	48	69	82	24
MCOLN3		5	2	3	4	4	24
MCPH1		82	82	79	139	115	182

MCRS1	14	21	31	0	7	0
MCTP1	147	154	185	74	72	154
MCTP2	102	98	164	219	191	237
MCTS1	101	141	142	213	191	182
MCU	39	38	36	13	12	13
MDC1	60	67	85	100	106	75
MDFI	0	0	0	0	0	0
MDFIC	504	453	478	436	452	388
MDGA1	10	17	16	19	9	40
MDGA2	4	6	1	16	9	35
MDH1	335	341	385	351	304	362
MDH1B	1	0	0	0	0	0
MDH2	214	205	249	201	227	203
MDK	0	2	0	0	0	8
MDM1	92	96	76	103	92	79
MDM2	367	412	417	296	311	301
MDM4	563	551	591	611	547	583
MDN1	273	217	243	362	335	325
MDP1	0	0	0	0	0	0
MDS2	2	1	2	4	0	0
ME1	150	162	190	4	2	0
ME2	231	272	331	340	304	348
ME3	0	4	0	1	9	0
MEA1	47	55	57	40	54	30
MEAF6	279	280	244	311	223	245
MECOM	4	0	5	1	7	35
MECP2	338	303	373	557	567	629
MECR	2	0	6	6	0	0
MED1	727	820	687	758	783	804
MED10	321	292	299	325	319	405
MED11	28	29	30	19	12	0
MED12	28	31	41	31	33	13
MED12L	2	0	0	4	0	13
MED13	469	385	449	529	473	621
MED13L	708	656	791	652	606	600
MED14	116	115	138	165	135	98
MED15	95	79	116	123	133	128
MED16	7	9	15	9	7	0
MED17	74	95	91	132	142	162
MED18	47	57	51	114	92	124
MED19	49	50	59	48	21	40
MED20	14	19	11	4	12	3
MED21	31	35	30	9	24	8
MED22	24	22	21	13	9	3
MED23	93	84	109	129	158	112
MED24	72	83	109	132	131	103
MED25	38	47	63	60	62	13
MED26	41	49	43	87	79	169
MED27	55	111	117	169	149	203
MED28	306	266	259	336	402	359
MED29	108	72	90	125	113	128
MED30	96	80	85	106	137	107
MED31	89	72	87	114	106	94
MED4	411	393	348	523	511	411
MED6	114	147	122	153	174	165
MED7	61	57	34	63	62	79
MED8	96	77	89	22	46	13
MED9	25	16	23	31	30	24
MEF2A	438	328	385	237	203	213
MEF2B	0	0	0	0	0	0
MEF2C	222	205	234	245	268	312
MEF2D	173	158	177	290	261	337
MEFV	12	14	9	6	0	19
MEG3	4	1	8	25	12	35
MEG8	6	8	3	6	21	40
MEGF10	0	0	0	1	0	0
MEGF11	2	0	0	0	0	0
MEGF6	1	0	8	1	2	0
MEGF8	10	8	5	25	43	30
MEGF9	236	222	259	103	113	75
MEI1	78	98	97	151	131	61
MEIG1	2	0	0	4	4	0
MEIS1	4	0	1	4	2	8
MEIS2	2	6	0	13	4	13
MEIS3	0	0	0	0	0	0
MEIS3P1	0	0	0	0	0	0
MELK	1	0	0	0	0	0
MEMO1	26	21	26	56	27	71
MEN1	70	87	101	132	127	112
MEOX1	5	4	3	0	0	0
MEOX2	0	0	0	0	0	0
MEP1A	1	1	0	0	4	8
MEP1B	0	0	0	1	0	0
MEPCE	99	107	91	63	106	51
MEPE	0	0	0	0	0	0
MERTK	7	9	11	0	2	0
MESP1	0	1	0	0	0	0
MESP2	0	0	0	0	0	0
MEST	0	1	0	0	7	3
MET	2	5	2	4	12	0
METAP1	282	346	336	241	297	182
METAP1D	0	2	0	1	7	0
METAP2	641	647	689	891	898	962
METRN	2	1	6	1	0	0
METRNL	134	113	134	108	122	112
METTL1	6	15	15	0	15	0
METTL11B	0	0	0	0	0	0
METTL13	51	66	37	63	60	24
METTL14	208	162	171	221	197	176
METTL15	48	46	48	63	60	51
METTL16	76	74	79	121	117	103
METTL17	186	225	246	293	263	216
METTL18	26	32	22	37	41	61

METTL21A	96	88	58	53	57	35
METTL21C	0	0	0	0	0	0
METTL22	18	12	17	4	15	0
METTL23	99	106	85	143	155	136
METTL24	0	0	0	1	0	0
METTL2A	20	22	12	28	21	3
METTL2B	41	39	37	40	41	51
METTL3	82	63	63	106	87	112
METTL4	51	55	72	74	72	94
METTL5	82	98	111	145	131	213
METTL6	25	20	29	69	79	107
METTL7A	216	224	172	112	124	61
METTL7B	0	0	0	0	0	0
METTL8	65	65	46	123	72	117
METTL9	365	387	379	336	365	372
MEX3A	1	2	6	4	2	19
MEX3B	6	8	9	1	0	0
MEX3C	336	355	350	424	496	467
MEX3D	65	78	66	45	49	30
MFAP1	209	214	198	280	319	249
MFAP2	0	0	0	0	0	0
MFAP3	82	74	42	108	84	139
MFAP3L	2	4	1	4	7	13
MFAP4	0	0	0	0	0	0
MFAP5	7	0	6	9	9	40
MFF	241	250	214	228	212	261
MFGE8	6	7	20	16	2	8
MFHAS1	230	257	257	340	354	359
MFN1	212	206	217	213	166	203
MFN2	162	169	186	136	140	143
MFNG	114	129	129	192	166	117
MFRP	0	0	0	0	0	0
MFSD1	666	616	548	84	82	71
MFSD10	78	69	87	31	41	24
MFSD11	84	65	61	132	84	121
MFSD12	111	130	155	58	65	35
MFSD2A	20	20	26	0	2	0
MFSD2B	0	1	0	0	0	8
MFSD3	5	2	2	4	0	0
MFSD5	62	82	94	72	62	66
MFSD6	127	108	115	82	108	75
MFSD6L	0	0	0	0	0	0
MFSD8	109	82	96	139	174	165
MFSD9	17	21	6	4	4	0
MGA	214	200	204	221	214	227
MGAM	13	20	7	19	7	35
MGAT1	356	381	423	224	227	185
MGAT2	113	135	83	134	113	89
MGAT3	1	7	12	40	27	71
MGAT4A	369	319	387	583	532	629
MGAT4B	249	248	218	234	219	176
MGAT4C	11	22	16	63	115	158
MGAT5	136	114	116	248	221	227
MGAT5B	1	1	2	37	41	51
MGLL	76	73	77	4	12	24
MGMT	68	57	75	66	75	66
MGP	2	1	1	74	18	117
MGRN1	87	96	144	82	67	94
MGST1	201	158	198	9	9	8
MGST2	87	92	53	6	18	0
MGST3	283	315	241	143	162	46
MIA	0	0	1	0	2	3
MIA-RAB4B	4	14	16	0	0	0
MIA2	134	141	157	187	187	220
MIA3	314	289	290	290	300	251
MIAT	233	262	299	343	300	329
MIB1	417	393	384	369	348	245
MIB2	21	16	23	19	33	3
MICA	11	9	9	9	4	0
MICAL1	42	31	26	31	35	46
MICAL2	37	35	26	34	46	46
MICAL3	6	9	18	25	21	13
MICALL1	32	20	30	19	18	3
MICALL2	2	5	2	6	9	3
MICB	79	61	58	60	54	124
MICU1	99	90	105	40	57	13
MID1	1	1	0	1	7	13
MID1IP1	69	58	74	93	72	61
MID2	6	7	0	4	4	3
MIDN	478	484	539	298	314	340
MIEN1	37	29	32	9	27	3
MIER1	510	409	478	659	689	798
MIER2	9	9	11	4	9	0
MIER3	48	46	39	40	69	94
MIF	41	24	13	51	60	13
MIF4GD	94	74	60	72	95	56
MIIP	26	40	55	13	9	0
MILR1	29	21	11	0	0	0
MIMT1	0	0	0	0	0	0
MINK1	25	25	53	34	27	24
MINOS1	84	102	95	98	140	139
MINPP1	62	62	60	25	38	19
MIOS	42	47	40	31	33	35
MIOX	0	1	0	0	0	3
MIP	0	0	0	0	0	0
MIPeP	15	21	16	28	4	13
MIPOL1	12	8	5	22	12	24
MIR1-1	0	0	0	0	0	0
MIR1-2	0	0	0	0	0	0
MIR100	0	0	0	0	0	0
MIR101-1	0	0	0	0	0	0
MIR101-2	0	0	0	0	0	0
MIR103A1	0	0	0	0	0	0

MIR103A2	0	0	0	0	0	0
MIR105-1	0	0	0	0	0	0
MIR105-2	0	0	0	0	0	0
MIR106A	0	0	0	0	0	0
MIR106B	0	0	0	0	0	0
MIR107	0	0	0	0	0	0
MIR10A	0	0	0	0	0	0
MIR10B	0	0	0	0	0	0
MIR1178	0	0	0	0	0	0
MIR1179	0	0	0	0	0	0
MIR1180	0	0	0	0	0	0
MIR1181	0	0	0	0	0	0
MIR1182	0	0	0	0	0	0
MIR1184-1	0	0	0	0	0	0
MIR1184-2	0	0	0	0	0	0
MIR1184-3	0	0	0	0	0	0
MIR1185-1	0	0	0	0	0	0
MIR1185-2	0	0	0	0	0	0
MIR1193	0	0	0	0	0	0
MIR1197	0	0	0	0	0	0
MIR1200	0	0	0	0	0	0
MIR1203	0	0	0	0	0	0
MIR1205	0	0	0	0	0	0
MIR1207	0	0	0	0	0	0
MIR1208	0	0	0	0	0	0
MIR122	0	0	0	0	0	0
MIR1224	0	0	0	0	0	0
MIR1225	0	0	0	0	0	0
MIR1226	0	0	0	0	0	0
MIR1227	0	0	0	0	0	0
MIR1228	0	0	0	0	0	0
MIR1229	0	0	0	0	0	0
MIR1231	0	0	0	0	0	0
MIR1233-1	0	0	0	0	0	0
MIR1233-2	0	0	0	0	0	0
MIR1234	0	0	0	0	0	0
MIR1236	0	0	0	0	0	0
MIR1237	0	0	0	0	0	0
MIR1238	0	0	0	0	0	0
MIR124-2	0	0	0	0	0	0
MIR124-3	0	0	0	0	0	0
MIR1245A	0	0	0	0	0	0
MIR1249	0	0	0	0	0	0
MIR1250	0	0	0	0	0	0
MIR1251	0	0	0	0	0	0
MIR1252	0	0	0	0	0	0
MIR1253	0	0	0	0	0	0
MIR1256	0	0	0	0	0	0
MIR1257	0	0	0	0	0	0
MIR1258	0	0	0	0	0	0
MIR125A	0	0	0	0	0	0
MIR125B1	0	0	0	0	0	0
MIR125B2	0	0	0	0	0	0
MIR126	0	0	0	0	0	0
MIR1260A	0	0	0	0	0	0
MIR1260B	0	0	0	0	0	0
MIR1262	0	0	0	0	0	0
MIR1265	0	0	0	0	0	0
MIR1266	0	0	0	0	0	0
MIR127	0	0	0	0	0	0
MIR1272	0	0	0	0	0	0
MIR1275	0	0	0	0	0	0
MIR1276	0	0	0	0	0	0
MIR1277	0	0	0	0	0	0
MIR1278	0	0	0	0	0	0
MIR128-1	0	0	0	0	0	0
MIR128-2	0	0	0	0	0	0
MIR1281	0	0	0	0	0	0
MIR1282	0	0	0	0	0	0
MIR1283-1	0	0	0	0	0	0
MIR1283-2	0	0	0	0	0	0
MIR1284	0	0	0	0	0	0
MIR1286	0	0	0	0	0	0
MIR1287	0	0	0	0	0	0
MIR1288	0	0	0	0	0	0
MIR1289-2	0	0	0	0	0	0
MIR129-1	0	0	0	0	0	0
MIR129-2	0	0	0	0	0	0
MIR1292	0	0	0	0	0	0
MIR1293	0	0	0	0	0	0
MIR1295A	0	0	0	0	0	0
MIR1296	0	0	0	0	0	0
MIR1298	0	0	0	0	0	0
MIR1301	0	0	0	0	0	0
MIR1304	0	0	0	0	0	0
MIR1305	0	0	0	0	0	0
MIR1306	0	0	0	0	0	0
MIR1307	0	0	0	0	0	0
MIR130A	0	0	0	0	0	0
MIR130B	0	0	0	0	0	0
MIR132	0	0	0	0	0	0
MIR1323	0	0	0	0	0	0
MIR1324	0	0	0	0	0	0
MIR133A1	0	0	0	0	0	0
MIR133A2	0	0	0	0	0	0
MIR133B	0	0	0	0	0	0
MIR134	0	0	0	0	0	0
MIR1343	0	0	0	0	0	0
MIR135A1	0	0	0	0	0	0
MIR135A2	0	0	0	0	0	0
MIR135B	0	0	0	0	0	0
MIR136	0	0	0	0	0	0
MIR137HG	0	0	1	1	0	0

MIR138-1	0	0	0	0	0	0
MIR138-2	0	0	0	0	0	0
MIR139	0	0	0	0	0	0
MIR140	0	0	0	0	0	0
MIR141	0	0	0	0	0	0
MIR142	0	0	0	0	0	0
MIR143	0	0	0	0	0	0
MIR144	0	0	0	0	0	0
MIR145	0	0	0	0	0	0
MIR1468	0	0	0	0	0	0
MIR1469	0	0	0	0	0	0
MIR146A	0	0	0	0	0	0
MIR146B	0	0	0	0	0	0
MIR1470	0	0	0	0	0	0
MIR1471	0	0	0	0	0	0
MIR147A	0	0	0	0	0	0
MIR147B	0	0	0	0	0	0
MIR148A	0	0	0	0	0	0
MIR148B	0	0	0	0	0	0
MIR149	0	0	0	0	0	0
MIR150	0	0	0	0	0	0
MIR152	0	0	0	0	0	0
MIR153-1	0	0	0	0	0	0
MIR153-2	0	0	0	0	0	0
MIR1537	0	0	0	0	0	0
MIR1538	0	0	0	0	0	0
MIR1539	0	0	0	0	0	0
MIR154	0	0	0	0	0	0
MIR155HG	72	57	53	28	57	13
MIR15B	0	0	0	0	2	0
MIR16-1	0	0	0	0	0	0
MIR16-2	4	0	0	1	0	0
MIR17HG	2	4	2	4	7	3
MIR181A1	0	0	0	0	0	0
MIR181A2	0	0	0	0	0	0
MIR181A2HG	1	4	2	1	4	3
MIR181B1	0	0	0	0	0	0
MIR181B2	0	0	0	0	0	0
MIR181C	0	0	0	0	0	0
MIR181D	0	0	0	0	0	0
MIR182	0	0	0	0	0	0
MIR1827	0	0	0	0	0	0
MIR183	0	0	0	0	0	0
MIR184	0	0	0	0	0	0
MIR185	0	0	0	0	0	0
MIR186	17	6	8	4	0	3
MIR187	0	0	0	0	0	0
MIR188	0	0	0	0	0	0
MIR18B	0	0	0	0	0	0
MIR1908	0	0	0	0	0	0
MIR1909	0	0	0	0	0	0
MIR190A	0	0	0	0	0	0
MIR190B	0	0	0	0	0	0
MIR191	0	0	0	0	0	0
MIR1910	0	0	0	0	0	0
MIR1911	0	0	0	0	0	0
MIR1912	0	0	0	0	0	0
MIR1913	0	0	0	0	0	0
MIR1914	0	0	0	0	0	0
MIR1915	0	0	0	0	0	0
MIR192	0	0	0	0	0	0
MIR193A	0	0	0	0	0	0
MIR193B	0	0	0	0	0	0
MIR194-1	0	0	0	0	0	0
MIR194-2	0	0	0	0	0	0
MIR196A1	0	0	0	0	0	0
MIR196A2	0	0	0	0	0	0
MIR196B	0	0	0	0	0	0
MIR197	0	0	0	0	0	0
MIR1972-1	0	0	0	0	0	0
MIR1972-2	0	0	0	0	0	0
MIR1976	0	0	0	0	0	0
MIR199A1	0	0	0	0	0	0
MIR199A2	0	0	0	0	0	0
MIR199B	0	0	0	0	0	0
MIR19B2	0	0	0	0	0	0
MIR200A	0	0	0	0	0	0
MIR200B	0	0	0	0	0	0
MIR200C	0	0	0	0	0	0
MIR204	0	0	0	0	0	0
MIR2053	0	0	0	0	0	0
MIR205HG	0	0	0	0	0	0
MIR206	0	0	0	0	0	0
MIR208A	0	0	0	0	0	0
MIR208B	0	0	0	0	0	0
MIR20B	0	0	0	0	0	0
MIR21	0	0	0	0	0	0
MIR210	0	0	0	0	0	0
MIR210HG	46	60	53	16	52	0
MIR211	0	0	0	0	0	0
MIR2110	0	0	0	0	0	0
MIR2113	0	0	0	0	0	0
MIR2114	0	0	0	0	0	0
MIR2116	0	0	0	0	0	0
MIR2117	0	0	0	0	0	0
MIR212	0	0	0	0	0	0
MIR214	0	0	0	0	0	0
MIR215	0	0	0	0	0	0
MIR216A	0	0	0	0	0	0
MIR216B	0	0	0	0	0	0
MIR217	0	0	0	0	0	0
MIR218-1	0	0	0	0	0	0
MIR218-2	0	0	0	0	0	0

MIR221	0	0	0	0	0	0
MIR222	0	0	0	0	0	0
MIR223	0	0	0	0	0	0
MIR2276	0	0	0	0	0	0
MIR2277	0	0	0	0	0	0
MIR2278	0	0	0	0	0	0
MIR22HG	130	98	107	87	100	112
MIR2355	0	0	0	0	0	0
MIR2392	0	0	0	0	0	0
MIR23A	0	0	0	0	0	0
MIR23B	0	0	0	0	0	0
MIR23C	0	0	0	0	0	0
MIR24-2	0	0	0	0	0	0
MIR2467	0	0	0	0	0	0
MIR25	0	0	0	0	0	0
MIR2681	0	0	0	0	0	0
MIR26A1	0	0	0	0	0	0
MIR26A2	0	0	0	0	0	0
MIR26B	0	0	0	0	0	0
MIR27A	0	0	0	0	0	0
MIR27B	0	0	0	0	0	0
MIR2909	0	0	0	0	0	0
MIR296	0	0	0	0	0	0
MIR298	0	0	0	0	0	0
MIR299	0	0	0	0	0	0
MIR29A	0	0	0	0	0	0
MIR29B1	0	0	0	0	0	0
MIR300	0	0	0	0	0	0
MIR301A	0	0	0	0	0	0
MIR301B	0	0	0	0	0	0
MIR302A	0	0	0	0	0	0
MIR302B	0	0	0	0	0	0
MIR302C	0	0	0	0	0	0
MIR302D	0	0	0	0	0	0
MIR3064	0	0	0	0	0	0
MIR3065	0	0	0	0	0	0
MIR3074	0	0	0	0	0	0
MIR30A	0	0	0	0	0	0
MIR30B	0	0	0	0	0	0
MIR30C1	0	0	0	0	0	0
MIR30C2	0	0	0	0	0	0
MIR30D	0	0	0	0	0	0
MIR30E	0	0	0	0	0	0
MIR31	0	0	0	0	0	0
MIR3115	0	0	0	0	0	0
MIR3117	0	0	0	0	0	0
MIR3119-1	0	0	0	0	0	0
MIR3119-2	0	0	0	0	0	0
MIR3121	0	0	0	0	0	0
MIR3122	0	0	0	0	0	0
MIR3123	0	0	0	0	0	0
MIR3124	0	0	0	0	0	0
MIR3125	0	0	0	0	0	0
MIR3126	0	0	0	0	0	0
MIR3127	0	0	0	0	0	0
MIR3128	0	1	1	0	0	0
MIR3129	0	0	0	0	0	0
MIR3130-1	0	0	0	0	0	0
MIR3130-2	0	0	0	0	0	0
MIR3131	0	0	0	0	0	0
MIR3132	0	0	0	0	0	0
MIR3134	0	0	0	0	0	0
MIR3136	0	0	0	0	0	0
MIR3138	0	0	0	0	0	0
MIR3140	0	0	0	0	0	0
MIR3141	0	0	0	0	0	0
MIR3142	0	0	0	0	0	0
MIR3143	0	0	0	0	0	0
MIR3145	0	0	0	0	0	0
MIR3146	0	0	0	0	0	0
MIR3147	0	0	0	0	0	0
MIR3148	0	0	0	0	0	0
MIR3150A	0	0	0	0	0	0
MIR3150B	0	0	0	0	0	0
MIR3151	0	0	0	0	0	0
MIR3152	0	0	0	0	0	0
MIR3153	0	0	0	0	0	0
MIR3154	0	0	0	0	0	0
MIR3155A	0	0	0	0	0	0
MIR3156-1	0	0	0	0	0	0
MIR3156-2	0	0	0	0	0	0
MIR3156-3	0	0	0	0	0	0
MIR3157	0	0	0	0	0	0
MIR3158-1	0	0	0	0	0	0
MIR3158-2	0	0	0	0	0	0
MIR3160-1	0	0	0	0	0	0
MIR3160-2	0	0	0	0	0	0
MIR3162	0	0	0	0	0	0
MIR3165	0	0	0	0	0	0
MIR3167	0	0	0	0	0	0
MIR3169	0	0	0	0	0	0
MIR3170	0	0	0	0	0	0
MIR3173	0	0	0	0	0	0
MIR3175	0	0	0	0	0	0
MIR3176	0	0	0	0	0	0
MIR3177	0	0	0	0	0	0
MIR3178	0	0	0	0	0	0
MIR3179-1	0	0	0	0	0	0
MIR3179-2	0	0	0	0	0	0
MIR3179-3	0	0	0	0	0	0
MIR3180-1	0	0	0	0	0	0
MIR3180-2	0	0	0	0	0	0
MIR3180-3	0	0	0	0	0	0

MIR3180-4	0	0	0	0	0
MIR3180-5	0	0	0	0	0
MIR3182	0	0	0	0	0
MIR3183	0	0	0	0	0
MIR3184	0	0	0	0	0
MIR3185	0	0	0	0	0
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MIR4774	0	0	0	0	0
MIR4775	0	0	0	0	0
MIR4776-1	0	0	0	0	0
MIR4776-2	0	0	0	0	0
MIR4777	0	0	0	0	0
MIR4778	0	0	0	0	0
MIR4779	0	0	0	0	0
MIR4780	0	0	0	0	0
MIR4781	0	0	0	0	0
MIR4782	0	0	0	0	0
MIR4783	0	0	0	0	0
MIR4784	0	0	0	0	0
MIR4785	0	0	0	0	0
MIR4786	0	0	0	0	0
MIR4787	0	0	0	0	0
MIR4788	0	0	0	0	0
MIR4789	0	0	0	0	0
MIR4790	0	0	0	0	0
MIR4791	0	0	0	0	0
MIR4792	0	0	0	0	0
MIR4793	0	0	0	0	0
MIR4794	0	0	0	0	0
MIR4795	0	0	0	0	0
MIR4796	0	0	0	0	0
MIR4797	0	0	0	0	0
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MIR4800	0	0	0	0	0	0
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MIR4802	0	0	0	0	0	0
MIR4803	0	0	0	0	0	0
MIR4804	0	0	0	0	0	0
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MIR487A	0	0	0	0	0	0
MIR487B	0	0	0	0	0	0
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MIR489	0	0	0	0	0	0
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MIR494	0	0	0	0	0	0
MIR495	0	0	0	0	0	0
MIR496	0	0	0	0	0	0
MIR497HG	0	0	0	0	0	0
MIR498	0	0	0	0	0	0
MIR499A	0	0	0	0	0	0
MIR500A	0	0	0	0	0	0
MIR500B	0	0	0	0	0	0
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MIR503	0	0	0	0	0	0
MIR504	0	0	0	0	0	0
MIR5047	0	0	0	0	0	0
MIR505	0	0	0	0	0	0
MIR506	0	0	0	0	0	0
MIR507	0	0	0	0	0	0
MIR508	0	0	0	0	0	0
MIR509-1	0	0	0	0	0	0
MIR509-2	0	0	0	0	0	0
MIR509-3	0	0	0	0	0	0
MIR5095	0	0	0	0	0	0
MIR510	0	0	0	0	0	0
MIR512-1	0	0	0	0	0	0
MIR512-2	0	0	0	0	0	0
MIR514A1	0	0	0	0	0	0
MIR514A2	0	0	0	0	0	0
MIR514A3	0	0	0	0	0	0
MIR514B	0	0	0	0	0	0
MIR515-1	0	0	0	0	0	0
MIR515-2	0	0	0	0	0	0
MIR516A1	0	0	0	0	0	0
MIR516A2	0	0	0	0	0	0
MIR516B1	0	0	0	0	0	0
MIR516B2	0	0	0	0	0	0
MIR517A	0	0	0	0	0	0
MIR517B	0	0	0	0	0	0
MIR517C	0	0	0	0	0	0
MIR518A1	0	0	0	0	0	0
MIR518A2	0	0	0	0	0	0
MIR518B	0	0	0	0	0	0
MIR518C	0	0	0	0	0	0
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MIR519A2	0	0	0	0	0	0
MIR519B	0	0	0	0	0	0
MIR519C	0	0	0	0	0	0
MIR519D	0	0	0	0	0	0
MIR519E	0	0	0	0	0	0
MIR520A	0	0	0	0	0	0
MIR520B	0	0	0	0	0	0
MIR520C	0	0	0	0	0	0
MIR520D	0	0	0	0	0	0
MIR520E	0	0	0	0	0	0
MIR520F	0	0	0	0	0	0
MIR520G	0	0	0	0	0	0
MIR520H	0	0	0	0	0	0
MIR521-1	0	0	0	0	0	0
MIR521-2	0	0	0	0	0	0
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MIR525	0	0	0	0	0	0
MIR526A1	0	0	0	0	0	0
MIR526A2	0	0	0	0	0	0
MIR526B	0	0	0	0	0	0
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MIR541	0	0	0	0	0	0
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MIR545	0	0	0	0	0	0
MIR548A1	0	0	0	0	0	0
MIR548A2	0	0	0	0	0	0
MIR548A3	0	0	0	0	0	0
MIR548AA1	0	0	0	0	0	0
MIR548AA2	0	0	0	0	0	0
MIR548AC	0	0	0	0	0	0
MIR548AD	0	0	0	0	0	0
MIR548AE2	0	0	0	0	0	0
MIR548AI	0	0	0	0	0	0
MIR548AJ2	0	0	0	0	0	0
MIR548AL	0	0	0	0	0	0
MIR548AN	0	0	0	0	0	0
MIR548B	0	0	0	0	0	0

MIR548C	0	0	0	0	0	0
MIR548D1	0	0	0	0	0	0
MIR548D2	0	0	0	0	0	0
MIR548F1	0	0	0	0	0	0
MIR548F2	0	0	0	0	0	0
MIR548F3	0	0	0	0	0	0
MIR548F4	0	0	0	0	0	0
MIR548F5	0	0	0	0	0	0
MIR548G	0	0	0	0	0	0
MIR548H2	0	0	0	0	0	0
MIR548H3	0	0	0	0	0	0
MIR548H4	0	0	0	0	0	0
MIR548I1	0	0	0	0	0	0
MIR548I2	0	0	0	0	0	0
MIR548I3	0	0	0	0	0	0
MIR548I4	0	0	0	0	0	0
MIR548J	0	0	0	0	0	0
MIR548K	0	0	0	0	0	0
MIR548M	0	0	0	0	0	0
MIR548N	0	0	0	0	0	0
MIR548O2	0	0	0	0	0	0
MIR548Q	0	0	0	0	0	0
MIR548T	0	0	0	0	0	0
MIR548W	0	0	0	0	0	0
MIR548X	0	0	0	0	0	0
MIR548Y	0	0	0	0	0	0
MIR550A1	0	0	0	0	0	0
MIR550A2	0	0	0	0	0	0
MIR550A3	0	0	0	0	0	0
MIR551A	0	0	0	0	0	0
MIR551B	0	0	0	0	0	0
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MIR567	0	2	5	9	4	8
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MIR572	0	0	0	0	0	0
MIR573	0	0	0	0	0	0
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MIR598	0	0	0	0	0	0
MIR599	0	0	0	0	0	0
MIR600HG	1	0	0	1	0	0
MIR601	0	0	1	0	0	0
MIR602	0	0	0	0	0	0
MIR603	0	0	0	0	0	0
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MIR618	0	0	0	0	0	0
MIR620	0	0	0	0	0	0
MIR621	0	0	0	0	0	0
MIR622	0	0	0	0	0	0
MIR623	0	0	0	0	0	0
MIR624	0	0	0	0	0	0
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MIR628	0	0	0	0	0	0
MIR629	0	0	0	0	0	0
MIR630	0	0	0	0	0	0
MIR631	0	0	0	0	0	0
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MIR639	0	0	0	0	0	0
MIR641	0	0	0	0	0	0
MIR642A	0	0	0	0	0	0
MIR643	0	0	0	0	0	0
MIR644A	0	0	0	0	2	0

MIR645	0	0	0	0	0	0
MIR647	0	0	0	0	0	0
MIR648	0	0	0	0	0	0
MIR650	0	0	0	0	0	0
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MIR660	0	0	0	0	0	0
MIR661	0	0	0	0	0	0
MIR662	0	0	0	0	0	0
MIR663A	0	0	0	0	0	0
MIR663B	0	0	0	0	0	0
MIR665	0	0	0	0	0	0
MIR670	0	0	0	0	0	0
MIR671	0	0	0	0	0	0
MIR676	0	0	0	0	0	0
MIR7-1	0	0	0	0	0	0
MIR7-2	0	0	0	0	0	0
MIR7-3	0	0	0	0	0	0
MIR7-3HG	0	0	0	0	0	0
MIR708	0	0	0	0	0	0
MIR711	0	0	0	0	0	0
MIR718	0	0	0	0	0	0
MIR744	0	0	0	0	0	0
MIR758	0	0	0	0	0	0
MIR759	0	0	0	0	0	0
MIR760	0	0	0	0	0	0
MIR761	0	0	0	0	0	0
MIR762	0	0	0	0	0	0
MIR764	0	0	0	0	0	0
MIR765	0	0	0	0	0	0
MIR766	0	0	0	0	0	0
MIR767	0	0	0	0	0	0
MIR769	0	0	0	0	0	0
MIR770	0	0	0	0	0	0
MIR802	0	0	0	0	0	0
MIR873	0	0	0	0	0	0
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MIR875	0	0	0	0	0	0
MIR876	0	0	0	0	0	0
MIR877	0	0	0	0	0	0
MIR885	0	0	0	0	0	0
MIR888	0	0	0	0	0	0
MIR889	0	0	0	0	0	0
MIR890	0	0	0	0	0	0
MIR891A	0	0	0	0	0	0
MIR891B	0	0	0	0	0	0
MIR892A	0	0	0	0	0	0
MIR892B	0	0	0	0	0	0
MIR9-1	0	0	0	0	0	0
MIR9-3	0	0	0	0	0	0
MIR920	0	0	0	0	0	0
MIR921	0	0	0	0	0	0
MIR922	0	0	0	0	0	0
MIR92A2	0	0	0	0	0	0
MIR92B	0	0	0	0	0	0
MIR93	0	0	0	0	0	0
MIR933	0	0	0	0	0	0
MIR934	0	0	0	0	0	0
MIR935	0	0	0	0	0	0
MIR936	0	0	0	0	0	0
MIR937	0	0	0	0	0	0
MIR938	0	0	0	0	0	0
MIR939	0	0	0	0	0	0
MIR940	0	0	0	0	0	0
MIR941-1	0	0	0	0	0	0
MIR941-2	0	0	0	0	0	0
MIR941-3	0	0	0	0	0	0
MIR942	0	0	0	0	0	0
MIR943	0	0	0	0	0	0
MIR944	0	0	0	0	0	0
MIR96	0	0	0	0	0	0
MIR98	0	0	0	0	0	0
MIR99A	0	0	0	0	0	0
MIR99B	0	0	0	0	0	0
MIRLET7A1	0	0	0	0	0	0
MIRLET7A2	0	0	0	0	0	0
MIRLET7A3	0	0	0	0	0	0
MIRLET7B	0	0	0	0	0	0
MIRLET7C	0	0	0	0	0	0
MIRLET7D	0	0	0	0	0	0
MIRLET7E	0	0	0	0	0	0
MIRLET7F1	0	0	0	0	0	0
MIRLET7F2	0	0	0	0	0	0
MIRLET7G	0	0	0	0	0	0
MIRLET7I	0	0	0	0	0	0
MIS12	137	146	134	259	232	224
MIS18A	56	46	47	58	49	89
MIS18BP1	416	355	378	323	268	271
MITD1	361	331	328	441	376	442
MITF	297	279	304	43	82	124
MIXL1	0	0	0	1	0	0
MKI67	11	12	11	4	15	35
MKKS	32	31	29	37	18	13
MKLN1	212	182	208	219	261	245
MKNK1	159	193	232	53	67	94
MKNK2	380	409	424	307	332	294
MKRN1	303	292	244	434	422	508

MKRN2	59	43	48	25	35	46
MKRN3	0	0	0	1	0	0
MKRN7P	0	0	0	0	0	0
MKRN9P	0	0	0	34	21	13
MKS1	14	19	11	53	21	61
MKX	0	0	0	0	0	0
MLANA	0	0	0	0	0	0
MLC1	2	4	5	4	0	0
MLEC	361	329	378	187	187	143
MLF1	1	2	0	1	2	8
MLF2	62	87	82	51	60	79
MLH1	118	144	107	153	129	121
MLH3	55	56	46	76	82	75
MLIP	0	0	0	0	0	0
MLKL	48	39	44	19	12	3
MLLT1	82	84	77	90	108	136
MLLT10	221	198	239	209	208	182
MLLT10P1	0	0	0	0	0	0
MLLT11	13	11	15	31	24	30
MLLT3	140	158	189	179	268	224
MLLT6	274	325	343	409	380	428
MLN	0	0	0	0	0	0
MLNR	0	0	0	0	0	0
MLPH	0	0	0	0	0	0
MLST8	21	15	24	1	7	0
MLX	98	137	123	53	95	30
MLXIP	94	102	100	106	129	117
MLXIPL	0	0	0	0	0	0
MLYCD	63	76	82	125	127	98
MMAA	29	35	30	60	62	61
MMAB	12	24	15	28	18	8
MMACHC	12	9	11	6	7	3
MMADHC	248	213	218	290	343	321
MMD	50	46	43	66	82	117
MMD2	0	0	0	0	0	0
MME	6	5	7	13	12	30
MMEL1	0	0	0	0	0	0
MMGT1	171	177	149	180	159	121
MMP1	0	0	0	0	2	0
MMP10	0	0	0	0	0	0
MMP11	4	1	0	0	0	3
MMP12	0	0	0	0	0	0
MMP13	0	1	0	0	0	0
MMP14	69	82	144	9	33	19
MMP15	0	0	0	0	0	0
MMP16	0	0	0	0	0	0
MMP17	0	0	0	0	0	0
MMP19	17	17	17	0	9	0
MMP2	0	0	0	0	0	0
MMP20	0	0	0	0	2	0
MMP21	0	0	0	0	0	0
MMP23A	0	0	0	0	0	0
MMP23B	0	0	0	0	0	0
MMP24	0	0	0	0	0	0
MMP25	51	46	46	13	12	0
MMP26	0	0	0	0	0	0
MMP27	0	0	0	0	0	0
MMP28	6	0	1	0	0	8
MMP3	2	1	0	13	21	30
MMP7	0	1	7	1	2	0
MMP8	7	0	7	4	0	0
MMP9	982	1130	1209	48	208	30
MMRN1	5	0	6	0	0	3
MMRN2	0	0	0	4	0	3
MMS19	166	184	181	250	232	203
MMS22L	62	54	46	82	60	117
MN1	17	9	13	43	30	89
MNAT1	80	81	78	121	120	107
MND1	0	0	1	0	0	0
MNDA	938	892	718	66	95	121
MNS1	4	1	7	34	18	79
MNT	82	74	89	53	69	89
MNX1	0	0	0	0	0	0
MOAP1	125	125	128	171	195	196
MOB1A	977	890	862	487	528	486
MOB1B	209	193	190	72	30	46
MOB2	20	24	17	19	12	13
MOB3A	92	84	99	76	111	61
MOB3B	55	55	58	112	82	147
MOB3C	35	71	53	6	30	8
MOB4	258	292	246	224	288	308
MOBP	2	1	2	31	12	139
MOCOS	1	0	0	0	7	8
MOC51	1	0	1	0	0	0
MOC52	100	73	72	69	87	98
MOC53	23	14	18	48	46	75
MOG	0	0	0	0	0	0
MOGAT1	0	0	0	0	0	0
MOGAT2	0	0	0	0	0	0
MOGAT3	0	0	0	4	0	0
MOGS	35	46	24	31	33	46
MOK	2	0	2	13	12	3
MON1A	10	9	9	0	2	8
MON1B	264	285	272	380	354	352
MON2	154	122	145	167	131	143
MORC1	2	0	0	1	4	19
MORC2	62	63	57	34	46	30
MORC2-AS1	0	2	2	1	4	0
MORC3	378	409	355	436	405	467
MORC4	36	39	41	100	84	107
MORF4L1	367	362	319	327	348	317
MORF4L2	305	289	246	286	325	271
MORN1	0	6	0	6	7	8

MORN2	13	8	9	0	4	0
MORN3	44	66	78	93	106	121
MORN4	5	8	6	0	15	0
MORN5	0	0	0	0	0	0
MOS	0	0	0	0	0	0
MOSPD1	29	28	22	31	2	24
MOSPD2	157	153	121	163	111	139
MOSPD3	4	6	7	0	2	0
MOV10	44	40	66	56	27	51
MOV10L1	0	0	0	0	0	0
MOXD1	4	4	5	1	9	3
MOXD2P	0	0	0	0	0	0
MPDU1	69	117	117	6	46	8
MPDZ	1	0	6	19	12	24
MPEG1	478	527	469	40	35	19
MPG	31	35	41	19	24	13
MPHOSPH10	353	353	334	483	367	503
MPHOSPH6	125	158	121	25	60	13
MPHOSPH8	752	721	702	668	669	723
MPHOSPH9	117	109	144	123	103	98
MPI	50	38	44	58	60	35
MPL	0	0	0	0	0	0
MPND	19	23	22	0	0	0
MPO	5	1	0	9	15	46
MPP1	316	303	295	51	30	61
MPP2	1	0	1	0	0	0
MPP3	0	0	5	0	0	0
MPP4	0	0	0	1	0	0
MPP5	84	68	68	60	87	84
MPP6	94	74	78	119	149	154
MPP7	74	60	53	103	92	103
MPPE1	88	62	67	76	77	71
MPPED1	0	0	0	0	0	0
MPPED2	1	1	1	1	7	13
MPRIp	98	118	116	187	113	112
MPST	15	14	15	0	7	0
MPV17	63	79	79	58	77	89
MPV17L	0	0	0	0	2	3
MPV17L2	9	16	6	6	0	0
MPZ	1	2	3	22	18	51
MPZL1	63	46	52	40	18	30
MPZL2	14	20	20	48	38	66
MPZL3	29	25	25	132	111	117
MR1	93	115	91	87	103	94
MRAP	0	0	0	0	0	0
MRAP2	0	0	0	0	0	0
MRAS	50	39	36	4	4	0
MRC1	324	259	248	66	65	66
MRC2	14	8	8	22	18	30
MREG	55	37	37	22	30	8
MRFAP1	499	478	437	599	581	540
MRFAP111	661	621	658	1021	1116	1089
MRGPRD	0	0	0	0	0	0
MRGPRE	0	0	0	0	0	0
MRGPRF	0	0	0	0	0	0
MRGPRG	0	0	0	0	0	0
MRGPRX1	0	0	0	0	0	0
MRGPRX2	0	0	0	0	0	0
MRGPRX3	0	0	0	0	0	0
MRGPRX4	0	0	0	0	0	0
MRI1	67	67	48	60	35	35
MRM1	6	1	5	0	15	0
MRO	0	0	0	0	0	0
MRPL1	137	102	113	169	166	258
MRPL10	64	55	69	129	117	139
MRPL11	74	61	60	79	87	75
MRPL12	13	9	13	0	0	0
MRPL13	114	93	100	51	92	94
MRPL14	82	62	61	48	75	30
MRPL15	121	121	126	121	72	40
MRPL16	186	173	158	165	153	112
MRPL17	40	48	52	16	38	30
MRPL18	140	122	144	117	129	94
MRPL19	72	78	77	48	41	40
MRPL2	32	25	35	28	15	13
MRPL20	213	201	208	274	217	224
MRPL21	55	74	80	76	95	51
MRPL22	92	76	78	127	75	89
MRPL23	0	0	0	0	0	0
MRPL23-AS1	0	0	0	0	0	0
MRPL24	87	90	85	161	151	165
MRPL27	56	73	65	6	35	24
MRPL28	12	25	25	4	9	13
MRPL3	179	152	137	141	172	132
MRPL30	108	100	82	56	90	13
MRPL32	125	113	107	167	137	179
MRPL33	285	279	224	298	336	288
MRPL34	136	101	87	117	92	117
MRPL35	89	86	96	79	75	107
MRPL36	31	30	32	60	60	46
MRPL37	26	54	37	82	54	66
MRPL38	1	7	9	9	12	0
MRPL39	41	33	35	48	46	71
MRPL4	28	50	40	19	54	51
MRPL40	62	41	45	25	49	35
MRPL41	87	76	109	40	21	30
MRPL42	153	128	121	100	135	94
MRPL43	106	104	101	87	127	66
MRPL44	167	177	185	190	172	233
MRPL45	113	135	127	192	249	237
MRPL45P2	1	6	3	9	15	3
MRPL46	14	14	21	16	15	3
MRPL47	132	100	91	106	133	128

MRPL48	42	47	40	63	54	35
MRPL49	67	74	65	100	79	84
MRPL50	119	100	99	147	120	147
MRPL51	143	146	124	136	193	84
MRPL52	132	100	107	82	127	66
MRPL53	6	16	13	13	27	19
MRPL54	55	56	50	53	46	46
MRPL55	42	49	58	82	75	46
MRPL9	106	97	88	199	174	173
MRPS10	133	122	95	161	162	165
MRPS11	31	31	25	37	43	40
MRPS12	32	33	46	43	43	51
MRPS14	70	80	60	93	95	121
MRPS15	39	49	54	31	46	19
MRPS16	183	177	128	167	177	188
MRPS17	23	16	43	45	21	56
MRPS18A	24	25	22	28	35	19
MRPS18B	245	288	222	354	405	355
MRPS18C	129	100	116	98	106	169
MRPS2	35	31	44	51	54	30
MRPS21	182	208	149	224	265	220
MRPS22	114	97	106	108	120	66
MRPS23	95	96	69	129	144	132
MRPS24	0	0	0	0	0	0
MRPS25	65	87	66	112	87	89
MRPS26	42	46	52	31	35	40
MRPS27	157	169	167	234	217	237
MRPS28	37	35	46	28	41	30
MRPS30	175	132	151	147	183	203
MRPS31	158	124	155	155	149	139
MRPS33	119	129	112	190	219	254
MRPS34	59	70	69	90	87	61
MRPS35	208	210	193	195	212	254
MRPS36	99	74	101	34	46	30
MRPS5	227	234	230	243	214	312
MRPS6	244	221	287	250	323	245
MRPS7	173	151	154	153	181	162
MRPS9	122	134	117	195	149	139
MRRF	37	38	65	108	82	132
MRS2	93	62	50	66	87	89
MRT04	26	28	22	53	43	61
MRV1	1	0	0	4	2	8
MRV1-AS1	0	2	0	0	0	0
MS4A1	787	700	713	1871	1663	1811
MS4A10	0	0	0	0	0	0
MS4A12	2	0	0	6	0	24
MS4A13	0	0	0	0	0	0
MS4A14	4	7	13	0	2	0
MS4A15	0	0	0	0	0	0
MS4A2	14	22	12	1	7	0
MS4A3	17	11	14	4	9	8
MS4A4A	10	22	21	0	9	8
MS4A5	0	0	0	0	0	0
MS4A6A	166	124	82	6	4	8
MS4A6E	0	0	0	0	0	0
MS4A7	573	654	581	125	149	124
MSC	6	2	6	4	7	3
MSGN1	0	0	0	0	0	0
MSH2	107	100	105	136	137	107
MSH3	79	84	76	87	90	136
MSH4	0	0	1	9	7	66
MSH5	0	0	0	0	4	0
MSH5-SAPCD1	0	0	0	0	0	0
MSH6	228	214	204	268	297	267
MSI1	0	0	0	0	0	0
MSI2	272	301	297	309	309	254
MSL1	472	491	490	520	424	478
MSL2	278	270	243	409	440	482
MSL3	326	357	337	627	544	681
MSL3P1	7	0	6	0	4	0
MSLN	0	0	0	0	0	0
MSLNL	0	0	0	0	0	0
MSMB	0	0	0	0	0	0
MSMO1	72	83	59	72	111	66
MSMP	0	0	0	0	0	0
MSN	2002	2231	2110	2352	2486	2335
MSR1	121	107	97	4	9	19
MSRA	42	48	36	16	9	8
MSRB2	18	15	13	19	4	13
MSRB3	6	1	6	4	0	3
MSS51	11	8	12	1	7	0
MST1	5	7	5	34	27	24
MST1P2	1	1	1	16	0	13
MST1R	0	0	0	0	0	0
MSTN	0	0	0	0	4	8
MSTO1	6	21	17	22	4	0
MSTO2P	0	0	0	0	0	0
MSX1	0	4	1	6	2	3
MSX2	0	2	2	1	7	0
MSX2P1	0	0	0	0	0	0
MT1A	0	0	0	0	0	0
MT1B	0	0	0	0	0	0
MT1DP	0	0	0	0	0	0
MT1E	2	11	3	34	18	51
MT1F	21	21	34	66	82	121
MT1G	0	2	2	22	21	46
MT1H	0	0	0	6	0	13
MT1JP	0	0	0	0	0	0
MT1L	0	0	0	0	0	0
MT1M	0	0	0	0	0	0
MT1X	4	11	3	31	33	56
MT2A	266	312	322	203	285	405
MT3	0	1	0	0	0	0

MT4	0	0	0	0	0	0
MTA1	237	199	200	380	283	393
MTA2	113	131	148	184	217	176
MTA3	29	37	41	37	79	40
MTAP	79	79	84	121	75	89
MT8P	21	22	16	22	27	13
MTCH1	303	321	311	486	350	442
MTCH2	308	318	301	155	206	154
MTCP1	2	4	0	4	2	0
MTDH	1630	1685	1636	1675	1604	1717
MTF1	165	167	159	114	108	151
MTF2	283	303	295	360	345	285
MTFMT	39	47	32	25	43	30
MTFP1	52	33	41	37	60	13
MTFR1	24	22	12	0	12	0
MTG1	7	8	20	4	2	3
MTHFD1	62	61	36	13	27	19
MTHFD1L	24	15	16	19	30	19
MTHFD2	653	738	631	219	288	241
MTHFD2L	63	60	58	56	30	66
MTHFR	87	81	82	82	95	46
MTHFS	31	35	43	45	43	24
MTHFSD	21	28	25	40	49	35
MTIF2	219	224	202	266	236	220
MTIF3	203	204	219	298	277	254
MTM1	58	63	53	56	38	46
MTMR1	111	87	111	108	113	112
MTMR10	58	56	46	51	60	89
MTMR11	5	0	3	1	0	0
MTMR12	145	115	141	108	108	79
MTMR14	56	92	83	66	79	61
MTMR2	36	26	23	25	54	35
MTMR3	233	181	194	217	189	162
MTMR4	84	77	82	66	49	66
MTMR6	456	441	441	646	539	678
MTMR7	0	0	0	0	0	0
MTMR8	4	4	5	1	7	3
MTMR9	181	158	208	193	162	169
MTMR9LP	0	1	1	0	0	0
MTNR1A	0	0	0	0	0	0
MTNR1B	0	0	0	0	0	0
MTO1	66	52	69	110	111	94
MTOR	89	87	82	79	57	107
MTPAP	83	94	75	69	60	103
MTPN	1244	1310	1190	1250	1263	1291
MTR	508	422	439	557	590	508
MTRF1	72	78	82	82	90	107
MTRF1L	17	19	26	9	7	8
MTRNR2L1	322	331	287	824	885	1048
MTRNR2L10	1	5	3	4	7	13
MTRNR2L2	0	0	0	0	0	0
MTRNR2L3	24	19	20	90	84	107
MTRNR2L4	0	1	2	9	4	19
MTRNR2L5	0	0	0	0	0	0
MTRNR2L6	5	6	6	6	21	0
MTRNR2L7	4	5	0	6	7	13
MTRNR2L8	11	19	18	69	57	66
MTRR	70	79	66	132	162	112
MTSS1	125	86	120	157	185	179
MTSS1L	1	0	0	1	0	0
MTTP	4	2	1	25	33	66
MTUS1	15	14	13	56	43	75
MTUS2	1	1	2	31	18	61
MTX1	0	0	0	0	0	0
MTX2	83	83	77	76	60	24
MTX3	59	60	47	82	65	71
MUC1	6	2	6	0	2	0
MUC12	0	0	0	0	0	0
MUC13	0	0	0	0	0	0
MUC15	0	0	0	0	0	0
MUC16	0	0	0	0	0	0
MUC17	0	0	0	0	0	0
MUC2	0	0	0	0	0	0
MUC20	9	5	12	37	54	98
MUC21	0	0	0	0	0	0
MUC22	0	0	0	0	0	0
MUC4	0	0	0	0	0	0
MUC5B	0	0	0	0	0	0
MUC6	0	0	0	0	0	0
MUC7	0	0	0	0	0	0
MUCL1	0	0	0	0	0	0
MUL1	29	24	42	40	46	40
MUM1	94	92	112	76	100	71
MUM1L1	0	0	0	0	0	0
MUS81	107	70	104	90	84	89
MUSK	0	0	0	0	0	0
MUSTN1	0	0	0	0	0	0
MUT	115	88	85	134	127	188
MUTYH	9	13	6	19	24	19
MVD	18	9	21	6	15	30
MVK	19	19	35	4	12	8
MVP	103	113	144	125	131	112
MX1	93	104	145	90	127	136
MX2	67	84	84	123	106	124
MXD1	125	139	160	74	77	124
MXD3	9	8	9	6	15	8
MXD4	115	111	123	187	158	207
MXI1	300	344	339	179	272	128
MXRA5	0	0	0	0	0	0
MXRA7	10	9	9	13	21	3
MXRA8	0	0	0	9	0	24
MYADM	134	135	144	125	115	71
MYADML	0	0	0	0	0	3

MYADML2	0	0	0	0	0	0
MYB	19	22	26	43	46	35
MYBBP1A	59	63	69	79	82	46
MYBL1	456	373	366	307	345	294
MYBL2	0	2	0	0	2	3
MYBPC1	1	4	0	9	9	13
MYBPC2	0	0	0	1	0	0
MYBPC3	6	2	7	13	4	13
MYBPH	0	0	0	0	0	0
MYBPHL	0	0	0	1	0	0
MYC	97	113	116	136	117	154
MYCBP	75	82	63	98	65	66
MYCBP2	960	882	1056	883	833	862
MYCBPAP	0	0	0	4	7	8
MYCN	0	1	0	0	0	0
MYCNOS	1	0	0	4	0	8
MYCT1	4	0	0	0	0	0
MYD88	198	254	210	95	120	84
MYEF2	35	25	21	34	49	84
MYEOV	0	0	0	0	0	0
MYF5	0	0	0	0	0	0
MYF6	0	0	0	0	0	0
MYH1	0	0	0	1	0	0
MYH10	4	1	7	9	18	35
MYH11	0	0	2	13	33	51
MYH13	0	0	0	0	0	0
MYH14	0	0	0	0	0	3
MYH15	4	2	2	9	9	19
MYH16	0	0	0	0	0	19
MYH2	0	0	0	0	0	0
MYH3	10	9	8	66	27	51
MYH4	0	0	0	0	0	0
MYH6	0	0	0	0	0	0
MYH7	0	0	0	0	0	0
MYH7B	0	1	0	0	0	0
MYH8	1	0	0	0	0	0
MYH9	935	991	971	1059	1055	1058
MYL1	0	0	0	0	0	0
MYL10	0	0	0	0	0	0
MYL12A	1174	1166	1156	886	1010	833
MYL12B	942	920	962	908	953	804
MYL2	0	0	0	0	0	0
MYL3	0	0	0	0	0	0
MYL4	0	0	0	0	0	0
MYL5	0	4	3	22	12	35
MYL6	618	679	589	336	463	343
MYL6B	18	13	9	16	21	19
MYL7	0	0	0	0	0	0
MYL9	0	0	0	0	0	0
MYLIP	165	170	175	257	227	196
MYLK	2	6	3	31	54	71
MYLK-AS1	1	1	0	0	4	0
MYLK2	0	0	0	0	0	0
MYLK3	0	0	0	0	0	3
MYLK4	6	2	5	1	7	0
MYLPF	1	0	2	13	2	13
MYNN	79	65	66	95	67	79
MYO10	9	11	11	13	27	24
MYO15A	2	0	1	53	27	128
MYO15B	2	5	3	0	0	0
MYO16	2	0	2	9	4	8
MYO18A	51	38	43	37	33	46
MYO18B	0	0	0	0	0	0
MYO19	38	42	40	93	52	128
MYO1A	0	1	0	22	4	56
MYO1B	5	2	2	6	9	13
MYO1C	18	15	14	19	7	3
MYO1D	14	21	24	31	43	8
MYO1E	94	109	97	19	9	0
MYO1F	311	349	444	173	195	154
MYO1G	39	23	29	28	12	3
MYO1H	0	0	0	4	2	0
MYO3A	4	2	0	13	12	3
MYO3B	0	0	0	0	2	8
MYO5A	250	205	193	114	106	103
MYO5B	1	0	0	1	7	13
MYO5C	4	2	8	28	21	30
MYO6	63	42	69	98	79	112
MYO7A	0	1	2	0	0	0
MYO7B	0	0	0	0	0	0
MYO9A	190	181	182	161	191	165
MYO9B	158	177	171	100	90	103
MYOC	0	0	0	0	0	0
MYOCD	0	2	0	0	0	8
MYOD1	0	0	0	0	0	0
MYOF	165	158	145	1	2	0
MYOG	0	0	0	0	0	0
MYOM1	20	13	16	106	75	173
MYOM2	15	7	8	6	9	0
MYOM3	0	0	0	0	4	0
MYOT	0	0	0	0	0	0
MYOZ1	0	0	0	0	0	0
MYOZ2	0	0	0	1	0	0
MYOZ3	2	0	2	4	4	13
MYPN	0	0	0	6	4	13
MYPOP	52	39	35	25	41	24
MYRIP	1	0	0	0	0	0
MYSM1	163	163	199	207	170	207
MYT1	0	0	1	1	7	3
MYT1L	5	1	3	22	9	19
MYZAP	5	11	3	25	4	0
MZB1	9	5	3	1	4	30
MZF1	29	25	48	58	46	61

MZT1	110	91	77	108	115	124
MZT2A	35	41	51	112	103	128
MZT2B	119	142	181	268	305	314
N4BP1	395	372	364	391	365	405
N4BP2	125	102	117	79	106	79
N4BP2L1	363	394	450	365	295	241
N4BP2L2	1329	1267	1571	1166	1105	1207
N4BP3	5	7	14	13	18	24
N6AMT1	13	9	17	19	15	0
NAA10	28	19	17	16	35	24
NAA11	0	0	0	0	0	0
NAA15	175	158	154	254	217	241
NAA16	136	125	119	232	210	182
NAA20	143	159	132	129	127	128
NAA25	92	90	108	129	111	185
NAA30	187	206	224	315	246	305
NAA35	191	227	210	257	225	241
NAA38	74	86	87	56	75	71
NAA40	10	11	9	0	15	0
NAA50	262	220	212	309	270	305
NAA60	49	62	45	66	95	61
NAAA	130	104	100	87	87	71
NAALAD2	4	7	3	31	24	51
NAALADL1	10	6	17	6	0	0
NAALADL2	12	17	11	93	82	158
NAB1	82	80	85	93	84	61
NAB2	44	37	39	13	35	13
NACA	1358	1410	1206	2389	2274	2427
NACA2	109	121	91	283	283	340
NACAD	0	0	0	4	0	0
NACC1	31	34	29	25	21	13
NACC2	74	78	93	69	46	107
NADK	41	33	26	9	12	8
NADSYN1	65	83	76	76	106	71
NAE1	189	177	226	217	236	147
NAF1	67	55	55	60	52	51
NAGA	140	159	104	6	15	0
NAGK	291	282	254	136	140	139
NAGLU	20	12	24	0	7	0
NAGPA	67	76	68	31	38	30
NAGS	2	4	0	0	0	0
NAIF1	44	33	53	56	52	35
NAIP	4	0	6	0	0	0
NALCN	0	1	0	1	0	0
NAMPT	358	428	465	177	242	199
NANOG	0	0	0	0	0	0
NANOGNB	1	0	0	0	2	0
NANOS1	0	1	0	4	0	3
NANOS2	0	0	0	0	0	0
NANOS3	0	0	0	0	0	0
NANP	21	28	30	1	4	13
NANS	95	107	91	19	27	3
NAP1L1	2551	2260	2303	3192	2905	2905
NAP1L2	62	42	36	103	90	103
NAP1L3	20	20	9	13	18	13
NAP1L4	472	427	540	1014	982	1106
NAP1L5	20	15	17	9	46	3
NAP1L6	0	0	0	4	0	3
NAPA	6	2	5	0	0	0
NAPB	65	55	68	112	111	132
NAPEPLD	37	46	41	28	46	56
NAPG	121	129	116	93	75	71
NAPSA	0	0	1	0	0	0
NAPSB	22	30	20	19	27	8
NARF	45	40	58	106	111	30
NARS	699	661	596	506	491	508
NARS2	44	38	41	45	54	66
NASP	309	275	246	437	456	415
NAT1	24	23	30	22	24	8
NAT10	154	155	179	261	214	282
NAT14	1	0	0	0	0	0
NAT16	0	0	0	1	4	0
NAT2	0	0	0	0	0	0
NAT8	0	0	0	0	0	0
NAT8L	0	0	0	0	0	0
NAT9	10	16	13	9	21	13
NAV1	11	13	11	22	27	71
NAV2	4	7	5	9	0	24
NAV2-AS4	0	0	0	0	0	0
NAV3	6	6	3	0	2	3
NBAS	158	188	183	190	166	185
NBEA	20	19	23	53	35	46
NBEAL1	84	98	101	93	135	112
NBEAL2	36	39	53	40	54	66
NBEAP1	0	0	0	1	0	0
NBL1	0	7	7	4	2	0
NBN	364	369	369	190	221	143
NBPF1	11	6	7	1	2	3
NBPF10	0	1	0	0	4	0
NBPF11	22	33	21	25	57	61
NBPF14	7	0	13	1	0	0
NBPF15	10	11	9	9	9	3
NBPF22P	0	0	0	0	0	0
NBPF3	0	0	0	1	0	0
NBPF4	0	0	0	0	0	0
NBPF6	0	0	0	0	0	0
NBPF7	0	0	0	0	0	0
NBPF9	5	7	11	31	18	8
NBR1	530	557	479	614	593	675
NBR2	5	11	13	43	18	3
NCALD	35	32	34	60	33	13
NCAM1	50	40	39	58	52	61
NCAM2	6	0	0	1	0	8

NCAN	0	0	0	0	0	0
NCAPD2	82	105	99	132	82	89
NCAPD3	51	52	58	63	46	79
NCAPG	9	1	2	1	4	13
NCAPG2	38	31	24	22	9	19
NCAPH	22	23	12	58	41	56
NCAPH2	19	32	32	9	21	30
NCBP1	113	127	121	161	133	121
NCBP2	200	206	219	245	277	271
NCCRP1	4	5	3	0	0	0
NCDN	6	2	11	9	7	0
NCEH1	248	262	230	6	18	13
NCF1	2	6	6	0	0	0
NCF1B	0	1	0	0	0	0
NCF1C	29	33	24	1	9	3
NCF2	1073	1035	1001	40	84	71
NCF4	197	177	195	66	60	40
NCK1	181	163	181	224	197	233
NCK2	169	141	179	271	246	325
NCKAP1	12	7	8	13	21	8
NCKAP1L	656	727	665	528	558	495
NCKAP5	0	0	3	1	4	8
NCKAP5L	26	42	39	4	9	0
NCKIP5D	17	15	7	1	2	0
NCL	2150	2067	2138	2087	2290	1932
NCLN	51	48	53	82	43	147
NCOA1	250	291	270	317	259	369
NCOA2	192	174	201	190	199	210
NCOA3	558	539	650	701	694	632
NCOA4	749	771	653	307	413	393
NCOA5	95	111	104	143	185	199
NCOA6	248	293	316	281	302	220
NCOA7	405	414	447	414	376	393
NCOR1	859	786	938	1043	912	1066
NCOR1P1	0	0	0	0	0	0
NCOR2	255	239	279	213	201	192
NCR1	56	56	68	34	35	0
NCR2	0	0	0	4	0	0
NCR3	1	0	2	0	0	0
NCS1	2	11	9	13	9	3
NCSTN	75	80	69	13	52	8
NDC80	38	30	36	98	60	56
NDE1	88	98	82	84	111	117
NDEL1	264	310	258	294	343	275
NDFIP1	358	399	365	380	399	343
NDFIP2	24	19	14	25	43	35
NDN	4	0	3	0	0	0
NDNF	0	0	0	0	0	0
NDOR1	0	7	1	0	0	0
NDP	0	1	0	0	0	0
NDRG1	349	459	390	206	302	98
NDRG2	9	12	13	1	2	3
NDRG3	101	120	91	114	120	107
NDRG4	0	0	1	0	0	0
NDST1	85	93	77	1	7	0
NDST2	5	4	3	1	4	0
NDST3	0	0	0	0	0	0
NDST4	1	0	1	1	0	0
NDUFA1	1070	1119	912	594	713	526
NDUFA10	191	166	141	259	246	230
NDUFA11	107	137	115	87	103	89
NDUFA12	258	241	214	241	208	192
NDUFA13	49	70	55	58	38	30
NDUFA2	208	251	263	217	217	176
NDUFA3	40	61	44	40	38	56
NDUFA4	412	392	413	271	300	314
NDUFA4L2	0	0	0	0	0	0
NDUFA5	373	421	403	444	452	405
NDUFA6	278	265	219	230	223	216
NDUFA7	47	46	62	25	38	8
NDUFA8	84	74	79	74	75	84
NDUFA9	122	121	107	136	131	107
NDUFA81	390	407	328	317	402	422
NDUFAF1	66	63	52	40	62	56
NDUFAF2	42	54	34	58	52	24
NDUFAF3	31	58	69	60	75	35
NDUFAF4	50	50	48	74	77	98
NDUFB1	415	374	366	412	397	379
NDUFB10	92	121	113	119	174	75
NDUFB11	89	74	69	127	127	98
NDUFB2	257	239	235	145	164	112
NDUFB3	230	227	207	268	305	258
NDUFB4	336	321	402	436	429	419
NDUFB5	269	268	226	250	236	245
NDUFB6	140	129	97	106	97	56
NDUFB7	48	58	63	76	72	75
NDUFB8	249	270	215	252	297	224
NDUFB9	264	287	246	241	217	151
NDUFC1	272	332	323	228	252	267
NDUFC2	238	243	220	209	212	192
NDUFC2-KCTD14	0	0	0	0	0	0
NDUFS1	266	276	254	219	251	216
NDUFS2	132	171	199	177	162	132
NDUFS3	235	233	197	237	214	207
NDUFS4	137	139	144	159	174	213
NDUFS5	300	305	279	298	354	279
NDUFS6	347	342	371	276	305	308
NDUFS7	40	58	83	60	49	46
NDUFS8	49	50	54	60	57	24
NDUFV1	72	95	82	119	164	98
NDUFV2	88	102	157	134	151	162
NDUFV3	115	109	85	53	49	66
NEAT1	1785	1840	2087	2738	2159	2769

NEB	13	11	7	182	106	308
NEBL	1	2	3	6	0	0
NECAB1	12	14	13	34	54	94
NECAB2	0	0	0	0	0	0
NECAB3	7	2	0	0	0	3
NECAP1	99	127	126	121	133	117
NECAP2	203	200	159	211	232	258
NEDD1	203	215	197	261	268	275
NEDD4	18	17	9	19	21	8
NEDD4L	36	30	23	90	79	124
NEDD8	234	283	270	266	335	301
NEDD8-MDP1	0	0	0	0	0	0
NEDD9	114	106	123	66	82	51
NEFH	4	6	1	1	0	0
NEFL	2	1	2	0	2	3
NEFM	0	0	2	0	2	13
NEGR1	5	8	8	19	27	35
NEGR1-IT1	0	0	0	0	0	0
NEIL1	10	8	9	22	9	24
NEIL2	24	15	18	19	12	19
NEIL3	5	5	3	6	4	3
NEK1	175	133	179	313	225	245
NEK10	6	2	2	45	15	103
NEK11	2	4	2	19	7	30
NEK2	7	2	2	0	0	35
NEK3	22	29	24	25	9	19
NEK4	69	86	60	117	72	94
NEK5	0	7	1	34	41	56
NEK6	128	152	112	4	12	8
NEK7	266	225	212	319	314	294
NEK8	5	12	13	13	2	30
NEK9	280	288	309	464	429	411
NELL1	4	1	7	1	24	30
NELL2	243	275	330	930	843	897
NEMF	563	568	562	550	547	595
NENF	55	57	65	66	52	35
NEO1	28	34	26	22	43	35
NES	0	0	0	0	0	0
NET1	32	41	32	53	46	35
NETO1	4	0	1	1	0	3
NETO2	83	73	57	19	18	13
NEU1	157	161	136	48	69	30
NEU2	0	0	0	0	0	0
NEU3	74	67	71	31	27	24
NEU4	0	0	0	0	2	3
NEURL1B	0	0	0	0	0	0
NEURL2	0	1	0	0	0	0
NEURL3	0	1	6	1	7	35
NEURL4	1	0	0	0	0	0
NEUROD1	5	6	2	43	38	46
NEUROD2	1	5	0	1	0	24
NEUROD4	0	0	0	0	0	0
NEUROD6	0	0	0	0	0	0
NEUROG1	0	0	0	0	0	0
NEUROG2	0	0	0	0	0	0
NEUROG3	0	0	0	0	0	0
NEXN	55	46	48	108	87	196
NF1	155	137	176	228	185	340
NF1P2	0	0	0	0	0	0
NF2	52	63	78	48	57	46
NFAM1	85	113	96	0	2	0
NFASC	0	0	0	1	2	24
NFATS	123	87	129	123	133	176
NFATC1	139	154	133	197	177	176
NFATC2	296	264	316	441	436	453
NFATC2IP	314	404	373	333	370	332
NFATC3	180	168	189	278	302	264
NFATC4	0	0	0	0	0	0
NFE2	2	13	9	0	2	0
NFE2L1	172	163	192	159	135	136
NFE2L2	743	682	800	546	532	711
NFE2L3	104	98	79	1	9	0
NFIA	98	95	95	190	147	216
NFIB	7	4	5	28	30	46
NFIC	273	285	323	149	129	139
NFIL3	128	151	116	40	72	56
NFIX	32	28	40	40	27	40
NFKB1	411	363	406	512	493	641
NFKB2	42	61	45	129	140	143
NFKBIA	3147	3380	3529	1325	1504	1342
NFKBIB	47	57	39	79	72	56
NFKBID	5	4	7	13	4	3
NFKBIE	56	61	62	13	41	30
NFKBIL1	13	7	7	1	12	13
NFKBIZ	602	581	702	252	227	264
NFRKB	135	113	154	254	206	143
NFS1	37	33	23	31	30	24
NFU1	159	154	158	199	187	249
NFX1	97	105	78	143	122	139
NFXL1	48	52	65	53	67	66
NFYA	145	153	164	134	153	136
NFYB	173	179	162	241	251	169
NFYC	66	82	60	66	57	79
NGB	0	0	0	0	0	0
NGDN	292	339	334	515	506	501
NGEF	0	0	0	0	0	0
NGF	0	0	0	0	0	0
NGFR	0	0	0	0	0	0
NGLY1	180	162	142	123	140	98
NGRN	38	22	31	93	79	124
NHEJ1	4	4	2	0	0	0
NHLH1	0	0	0	4	7	19
NHLH2	31	38	37	157	172	282

NHLRC1	6	4	5	1	0	0
NHLRC2	98	100	93	95	75	132
NHLRC3	142	124	128	136	103	98
NHLRC4	1	1	3	0	0	0
NHP2	51	56	53	43	41	46
NH5	9	4	3	1	9	3
NHSL1	1	5	0	0	0	0
NHSL2	414	328	314	472	470	647
NICN1	0	0	0	0	0	0
NID1	56	31	46	0	0	8
NID2	4	0	0	0	0	8
NIF3L1	62	68	48	82	82	75
NIN	731	686	721	712	584	704
NINJ1	195	231	267	87	97	71
NINJ2	10	4	5	1	4	0
NINL	4	1	3	0	4	0
NIP7	67	79	68	95	90	89
NIPA1	94	74	89	87	100	66
NIPA2	148	159	173	134	153	154
NIPAL1	2	0	1	0	9	19
NIPAL2	21	19	16	1	4	3
NIPAL3	106	107	134	163	172	176
NIPAL4	0	0	0	0	0	0
NIPBL	1302	1202	1315	1427	1307	1488
NIPSNAP1	12	16	9	45	30	8
NIPSNAP3A	94	91	82	45	43	35
NIPSNAP3B	0	0	1	0	4	0
NISCH	72	87	103	93	75	66
NIT1	52	47	53	72	87	51
NIT2	68	73	79	56	77	56
NKAIN1	0	0	0	0	0	0
NKAIN2	2	0	3	6	7	3
NKAIN3	1	1	3	1	7	46
NKAIN4	0	0	0	0	0	0
NKAP	229	223	239	387	405	419
NKAPL	5	6	6	6	9	19
NKAPP1	13	9	22	19	15	8
NKD1	7	6	5	6	7	19
NKD2	0	0	0	0	0	0
NKG7	145	157	134	226	326	227
NKIRAS1	11	13	16	22	9	3
NKIRAS2	50	62	54	34	52	13
NKPD1	0	0	0	34	15	24
NKRF	67	56	60	117	72	79
NKTR	1222	1238	1473	1469	1182	1269
NKX1-2	0	0	0	0	0	0
NKX2-1	0	0	0	0	0	0
NKX2-2	0	0	0	0	0	0
NKX2-3	0	0	0	0	0	0
NKX2-4	0	0	0	0	0	0
NKX2-5	0	0	0	0	0	0
NKX2-6	0	0	0	0	0	0
NKX2-8	0	0	0	0	0	0
NKX3-1	1	0	0	1	7	0
NKX3-2	0	0	0	0	0	0
NKX6-1	0	0	0	0	0	0
NKX6-2	0	0	0	0	0	0
NKX6-3	0	0	0	0	0	0
NLE1	7	6	8	0	9	0
NLGN1	13	1	5	6	15	24
NLGN2	1	0	1	1	2	0
NLGN3	2	4	0	13	18	24
NLGN4X	1	0	0	0	0	0
NLGN4Y	4	2	1	0	7	0
NLK	65	61	34	53	52	30
NLN	162	154	148	34	65	151
NLRC3	126	93	109	157	108	117
NLRC4	60	47	72	9	0	3
NLRC5	230	265	272	430	373	467
NLRP1	220	219	251	327	197	176
NLRP10	0	0	0	0	0	0
NLRP11	0	0	0	0	0	0
NLRP12	5	2	6	13	4	24
NLRP13	0	0	0	0	0	0
NLRP14	0	0	0	0	0	0
NLRP2	0	6	5	34	15	8
NLRP3	70	81	61	1	9	0
NLRP4	0	0	0	0	0	0
NLRP5	0	0	0	0	0	0
NLRP6	0	0	0	0	0	0
NLRP7	1	0	2	0	0	0
NLRP8	0	0	0	0	0	0
NLRP9	0	0	0	0	0	0
NLRX1	4	4	3	0	2	0
NMB	5	6	11	22	9	0
NMBR	0	0	0	0	0	0
NMD3	75	90	85	72	72	46
NME1	51	58	63	51	60	56
NME1-NME2	0	0	0	0	0	0
NME2	2	0	0	0	0	0
NME3	26	25	20	13	52	35
NME4	19	5	18	4	18	0
NME5	0	0	0	6	0	3
NME6	19	28	28	43	41	66
NME7	24	21	34	40	49	61
NME9	0	0	0	0	2	0
NMI	465	404	379	234	259	237
NMNAT1	15	19	16	19	21	13
NMNAT2	0	0	0	0	0	3
NMNAT3	2	1	1	0	4	0
NMRAL1	24	19	21	16	21	0
NMS	0	0	0	0	0	0
NMT1	255	318	417	393	394	340

NMT2	109	127	175	149	137	173
NMU	0	0	0	0	0	0
NMUR1	5	6	1	0	0	3
NMUR2	0	0	0	0	4	0
NNAT	0	0	0	1	0	0
NNMT	0	0	0	0	0	0
NNT	182	167	190	192	159	107
NOA1	68	58	62	134	135	75
NOB1	119	105	119	215	144	158
NOBOX	0	0	0	0	0	0
NOC2L	30	23	22	31	38	8
NOC3L	119	124	105	184	140	179
NOC4L	10	8	1	0	4	0
NOD1	22	22	35	6	9	0
NOD2	59	57	34	16	24	8
NODAL	0	0	0	0	0	0
NOG	109	117	138	243	219	271
NOL10	134	106	113	163	164	213
NOL11	165	182	137	207	208	213
NOL12	30	24	23	19	18	3
NOL3	9	1	6	9	2	8
NOL4	7	11	7	48	57	98
NOL6	23	24	21	19	15	13
NOL7	320	289	244	203	283	241
NOL8	402	349	374	424	323	453
NOL9	125	151	151	271	242	285
NOLC1	200	188	194	293	268	271
NOM1	147	167	149	195	168	173
NOMO1	11	5	7	6	2	8
NOMO2	1	0	0	0	0	0
NOMO3	0	0	0	0	0	0
NONO	681	724	846	962	940	1002
NOP10	306	277	286	125	137	107
NOP14	220	177	219	257	252	213
NOP14-AS1	18	8	5	25	18	66
NOP16	93	111	93	110	142	117
NOP2	14	6	16	9	33	3
NOP56	179	152	187	157	158	139
NOP58	594	508	517	854	743	937
NOS1	0	2	0	25	33	3
NOS1AP	0	0	0	0	0	3
NOS2	0	0	0	0	0	0
NOS3	0	0	0	0	0	0
NOSIP	75	70	97	117	120	107
NOSTRIN	1	4	3	16	30	40
NOTCH1	148	174	159	93	106	117
NOTCH2	291	227	224	151	131	121
NOTCH3	0	1	2	1	0	3
NOTCH4	1	1	6	4	2	8
NOTO	0	0	1	0	0	0
NOTUM	0	0	0	0	0	0
NOV	0	0	0	0	0	0
NOVA1	2	4	3	13	27	51
NOVA2	0	0	0	0	7	8
NOX1	0	0	0	0	0	0
NOX3	0	0	0	0	4	0
NOX4	1	0	0	0	0	8
NOX5	0	0	0	0	0	0
NOXA1	0	0	1	0	0	0
NOXO1	0	0	0	0	0	0
NOXRED1	0	1	3	34	4	0
NPAS1	0	0	0	0	0	0
NPAS2	4	5	1	0	0	8
NPAS3	7	13	8	95	79	89
NPAS4	0	0	0	0	0	0
NPAT	178	162	166	261	236	285
NPB	0	0	0	0	0	0
NPBWR1	0	0	0	0	0	0
NPBWR2	0	0	0	0	0	0
NPC1	88	92	95	169	174	199
NPC1L1	0	0	0	6	4	46
NPC2	1029	1197	997	163	203	158
NPDC1	7	14	8	9	18	0
NPEPL1	15	34	34	9	24	19
NPEPP5	268	258	289	179	189	162
NPFF	0	0	0	0	0	0
NPFFR1	0	1	1	6	2	0
NPFFR2	0	0	0	0	0	0
NPHP1	1	2	2	16	12	19
NPHP3	83	87	71	100	129	79
NPHP3-AS1	0	0	0	0	0	0
NPHP4	20	26	17	9	18	8
NPHS1	0	0	0	0	0	0
NPHS2	0	0	0	0	0	0
NPL	280	301	273	19	12	8
NPLOC4	68	71	77	123	79	66
NPM1	785	894	869	1298	1427	1377
NPM2	1	0	1	4	4	35
NPM3	26	49	52	66	79	84
NPNT	0	0	0	1	2	3
NPPA	0	0	0	0	0	0
NPPB	0	0	0	0	2	0
NPPC	0	0	0	0	0	0
NPR1	0	0	0	0	0	3
NPR2	20	16	6	31	12	46
NPR3	1	0	1	13	12	61
NPRL2	35	54	39	84	62	66
NPRL3	20	20	15	9	21	8
NPS	0	0	0	0	0	0
NPSR1	0	0	0	0	0	0
NPTN	755	774	753	254	307	185
NPTX1	0	1	5	6	12	13
NPTX2	0	0	0	0	0	0

NPTXR	22	34	29	25	24	0
NPVF	0	0	0	4	7	19
NPW	0	0	0	0	0	0
NPY	0	0	0	0	0	0
NPY1R	0	0	0	0	0	0
NPY2R	0	0	0	0	0	0
NPY5R	0	0	0	0	0	0
NPV6R	0	0	0	0	0	0
NQO1	28	32	24	19	15	13
NQO2	37	16	31	13	9	8
NROB1	0	0	0	0	0	0
NROB2	0	0	0	0	0	0
NR1D1	5	1	6	0	4	0
NR1D2	157	165	167	239	245	285
NR1H2	35	33	32	13	18	0
NR1H3	12	17	14	16	9	13
NR1H4	0	0	0	0	0	0
NR1I2	0	0	0	0	0	0
NR1I3	0	0	1	0	0	3
NR2C1	82	78	91	141	111	124
NR2C2	203	214	206	358	348	348
NR2C2AP	14	16	21	25	41	19
NR2E1	0	0	0	0	0	0
NR2E3	0	0	0	0	4	8
NR2F1	0	1	0	0	2	3
NR2F2	6	15	12	53	57	132
NR2F6	2	1	2	1	0	0
NR3C1	812	845	781	1213	1178	1200
NR3C2	58	73	66	76	82	103
NR4A1	2	9	7	19	24	8
NR4A2	118	114	88	180	149	203
NR4A3	34	32	22	16	21	13
NR5A1	0	0	0	0	0	0
NR5A2	0	0	0	0	4	3
NR6A1	13	8	5	1	2	0
NRADDP	1	2	0	0	0	0
NRAP	1	0	2	1	0	0
NRARP	0	0	0	0	0	0
NRAS	249	212	201	119	137	103
NRBF2	151	168	159	100	84	71
NRBP1	132	150	157	87	133	89
NRBP2	24	7	14	6	2	0
NRCAM	2	12	5	9	9	8
NREP	7	24	8	4	7	0
NRF1	44	34	50	58	90	84
NRG1	13	13	13	0	0	0
NRG2	0	0	3	1	0	0
NRG3	0	0	0	0	0	0
NRG4	0	0	0	9	2	13
NRGN	32	29	34	117	120	128
NRIP1	244	229	214	151	149	154
NRIP2	0	0	0	0	0	0
NRIP3	17	14	12	16	12	0
NRK	0	2	0	4	2	3
NRL	5	2	0	1	0	0
NRM	15	19	17	0	9	0
NRN1	12	9	9	0	0	0
NRN1L	0	0	0	0	2	0
NRON	0	0	0	0	0	0
NRP1	63	65	52	1	2	24
NRP2	186	135	163	22	21	19
NRSN1	0	0	0	0	0	0
NRSN2	0	1	0	0	0	0
NRTN	0	0	0	0	0	0
NRXN1	9	8	3	31	18	51
NRXN2	1	0	0	4	7	46
NRXN3	0	1	3	1	9	13
NSA2	778	719	678	1361	1301	1385
NSD1	303	252	282	271	219	312
NSDHL	25	30	20	0	7	3
NSF	179	181	126	114	92	117
NSFL1C	118	106	136	95	75	94
NSFP1	0	0	0	0	0	0
NSL1	249	250	243	252	234	216
NSMAF	249	233	263	184	177	132
NSMCE1	82	63	42	87	75	89
NSMCE2	90	101	74	112	103	112
NSMCE4A	123	127	123	163	149	128
NSRP1	312	277	344	472	340	482
NSUN2	350	371	355	498	501	537
NSUN3	61	47	55	37	38	24
NSUN4	55	52	39	31	35	46
NSUN5	78	100	101	145	137	107
NSUN5P1	7	8	5	48	18	40
NSUN5P2	24	26	17	108	27	61
NSUN6	89	73	79	173	140	188
NSUN7	6	0	3	0	0	13
NTSC	38	33	32	58	35	30
NTSC1A	0	0	0	0	0	0
NTSC1B	0	0	0	1	0	0
NTSC1B-RDH14	0	0	0	0	0	0
NTSC2	137	181	214	177	185	124
NTSDC1	153	169	158	161	140	121
NTSDC2	7	5	5	1	0	13
NTSDC3	7	9	11	1	2	19
NTSE	22	25	20	66	54	56
NTSM	4	1	0	0	0	0
NTAN1	52	50	45	37	35	35
NTF3	0	0	0	1	0	0
NTF4	0	0	0	0	0	0
NTHL1	0	6	5	4	0	0
NTM	4	2	1	1	9	13
NTN1	0	0	0	0	0	0

NTN3	0	0	0	0	0	0
NTN4	7	2	5	6	2	8
NTN5	0	1	0	0	0	0
NTNG1	1	1	1	4	15	19
NTNG2	18	8	18	28	24	0
NTPCR	75	81	76	74	82	61
NTRK1	0	0	0	0	2	0
NTRK2	5	6	3	48	54	56
NTRK3	7	5	5	66	41	66
NTS	0	0	0	0	0	0
NTSR1	0	0	0	0	0	0
NTSR2	0	0	0	0	0	0
NUAK1	12	13	8	16	15	8
NUAK2	36	34	34	40	41	13
NUB1	661	562	586	394	413	348
NUBP1	64	73	79	43	33	13
NUBP2	51	70	55	66	90	66
NUBPL	31	37	34	82	67	46
NUCB1	113	111	128	60	54	40
NUCB2	533	478	468	476	413	438
NUCKS1	1598	1658	1741	1921	1978	2002
NUDC	42	55	42	56	87	75
NUDCD1	92	83	97	90	100	103
NUDCD2	152	152	151	177	179	203
NUDCD3	85	78	101	125	124	103
NUDT1	37	35	48	9	30	8
NUDT10	0	0	0	0	0	0
NUDT11	4	5	2	4	0	0
NUDT12	2	1	3	0	0	0
NUDT13	7	6	2	0	0	0
NUDT14	9	7	5	4	0	0
NUDT15	61	73	80	19	12	3
NUDT16	83	70	68	16	30	0
NUDT16L1	174	167	144	129	162	66
NUDT16P1	6	0	2	0	0	0
NUDT17	5	11	6	22	15	3
NUDT18	5	8	5	0	7	0
NUDT19	61	28	25	37	49	13
NUDT2	21	23	14	31	46	30
NUDT21	543	584	452	687	678	641
NUDT22	60	49	68	28	46	46
NUDT3	174	168	183	153	115	176
NUDT4	133	189	192	177	170	182
NUDT5	115	83	146	123	90	103
NUDT6	6	7	3	0	4	8
NUDT7	6	6	3	1	0	0
NUDT8	0	1	0	0	0	0
NUDT9	55	49	50	43	43	66
NUF2	18	13	14	22	21	24
NUFIP1	29	23	26	13	41	13
NUFIP2	712	609	579	549	463	526
NUMA1	422	508	609	596	515	546
NUMB	283	283	328	177	195	196
NUMBL	10	12	16	22	30	46
NUP107	203	216	212	211	208	261
NUP133	122	113	112	108	129	128
NUP153	109	120	109	278	261	264
NUP155	70	71	72	95	87	107
NUP160	83	91	85	110	92	84
NUP188	92	71	88	72	43	19
NUP205	121	127	136	195	162	158
NUP210	127	175	201	321	261	314
NUP210L	1	2	1	6	9	19
NUP210P1	0	0	0	0	0	0
NUP214	140	147	182	139	140	158
NUP35	62	48	69	84	87	89
NUP37	83	63	71	66	95	107
NUP43	126	132	142	167	117	182
NUP50	294	322	292	534	498	595
NUP54	116	100	136	165	197	227
NUP62	243	296	313	239	227	279
NUP62CL	0	0	2	0	2	0
NUP85	172	158	186	203	174	251
NUP88	106	97	69	157	174	182
NUP93	140	193	189	119	183	151
NUP98	179	216	215	232	257	258
NUPL2	55	41	50	87	49	61
NUPR1	4	7	3	0	0	0
NUS1	70	60	43	69	77	51
NUSAP1	7	11	6	1	2	8
NUTF2	61	82	68	48	82	61
NVL	80	65	59	110	90	98
NWD1	0	0	0	1	7	3
NXF1	209	201	266	250	221	199
NXF2	0	0	0	0	0	0
NXF2B	0	0	0	0	0	0
NXF3	0	0	0	0	0	0
NXF4	0	0	0	0	0	0
NXF5	0	0	0	0	0	0
NXN	1	0	0	0	0	0
NXNL1	0	0	0	0	0	0
NXNL2	0	2	0	1	4	19
NXPH1	0	0	0	0	0	0
NXPH2	0	0	0	1	0	0
NXPH3	0	0	0	0	0	0
NXPH4	4	6	7	6	7	13
NXT1	69	86	91	58	65	75
NXT2	148	147	129	90	87	61
NYAP1	0	0	0	0	0	0
NYAP2	0	0	0	1	0	8
NYNRIN	0	0	0	0	0	0
NYX	0	0	0	0	0	0
OAF	34	43	29	0	0	0

OAS1	89	76	93	9	33	51
OAS2	140	191	172	139	111	128
OAS3	90	78	76	40	21	8
OASL	11	11	16	25	27	3
OAT	161	144	129	69	97	61
OA21	2445	2486	2634	1802	1912	1769
OA22	163	204	259	40	103	84
OA23	0	0	0	1	0	0
OBP2A	0	0	0	0	0	0
OBP2B	0	0	0	0	0	0
OBSCN	9	9	7	9	7	0
OBSL1	0	1	0	0	0	0
OC90	0	0	0	0	0	0
OCA2	2	1	2	0	0	0
OCEL1	17	16	18	9	2	0
OCIAD1	724	721	619	924	895	902
OCIAD2	75	92	66	239	238	245
OCLM	0	0	0	0	0	3
OCLN	0	0	0	0	0	0
OCM	0	0	1	1	0	13
OCM2	0	0	0	0	0	0
OCRL	32	24	26	13	2	0
ODAM	0	0	0	13	2	3
ODC1	193	173	149	232	257	271
ODF1	0	0	0	0	0	0
ODF2	55	65	60	37	30	30
ODF2L	257	268	339	261	210	241
ODF3	0	0	0	0	0	0
ODF3B	6	14	15	0	0	0
ODF3L1	0	0	0	0	0	0
ODF3L2	0	0	0	0	0	0
ODF4	0	0	0	0	0	0
OFD1	397	355	393	580	415	675
OGDH	64	49	61	28	49	19
OGDHL	0	0	0	0	0	0
OGFOD1	74	86	76	127	164	176
OGFOD2	0	0	0	0	0	0
OGFR	93	105	166	119	111	112
OGFRL1	200	189	215	31	54	19
OGG1	44	42	46	58	46	35
OGN	2	0	2	0	0	0
OGT	539	472	502	913	663	924
OIP5	11	6	0	1	0	8
OIP5-AS1	556	551	602	578	501	658
OIT3	0	0	0	0	0	0
OLA1	83	73	47	87	100	51
OLAH	0	0	0	0	2	0
OLFM1	60	63	42	4	4	3
OLFM2	0	0	0	0	0	0
OLFM3	1	0	0	4	0	3
OLFM4	18	5	7	6	21	0
OLFML1	0	0	0	0	0	0
OLFML2A	0	0	0	0	0	0
OLFML2B	4	7	5	0	0	0
OLFML3	0	0	0	0	0	0
OLIG1	12	6	8	0	0	3
OLIG2	0	0	0	0	0	0
OLIG3	0	0	0	0	0	0
OLR1	167	195	117	0	15	0
OMA1	126	90	115	195	153	199
OMD	0	0	0	0	0	0
OMG	5	1	1	4	2	3
OMP	0	0	0	0	0	0
ONECUT1	0	0	0	0	0	0
ONECUT2	5	1	5	16	15	56
ONECUT3	0	0	0	0	2	0
OEOP	0	0	0	0	0	0
OPA1	219	190	173	230	232	216
OPA3	42	38	40	25	35	51
OPALIN	0	0	0	1	0	0
OPCML	0	0	0	0	0	0
OPHN1	0	5	0	0	0	0
OPLAH	7	5	9	0	0	0
OPN1LW	0	0	0	0	0	0
OPN1MW	0	0	0	0	0	0
OPN1MW2	0	0	0	0	0	0
OPN1SW	0	0	0	0	0	0
OPN3	161	161	134	82	72	46
OPN4	0	0	0	0	0	0
OPN5	0	0	0	0	0	0
OPRD1	0	0	0	0	0	0
OPRK1	0	0	0	0	0	0
OPRL1	1	2	0	0	4	8
OPRM1	1	9	5	9	27	35
OPTC	0	0	0	0	0	0
OPTN	391	377	426	561	598	486
OR10A2	0	0	0	0	0	3
OR10A3	0	0	0	0	0	0
OR10A4	0	0	0	0	0	0
OR10A5	0	0	0	0	0	0
OR10A6	1	2	0	4	15	35
OR10A7	0	0	0	0	0	0
OR10AD1	0	0	0	0	0	0
OR10AG1	0	0	0	0	0	0
OR10C1	0	0	0	0	0	0
OR10G2	0	0	0	0	0	0
OR10G3	0	0	0	0	0	0
OR10G4	0	0	0	0	0	0
OR10G7	0	0	0	0	0	0
OR10G8	0	0	0	0	0	0
OR10G9	0	0	0	0	0	0
OR10H1	0	0	0	0	0	0
OR10H2	0	0	0	0	0	0

OR10H3	0	0	0	0	0	0
OR10H4	0	0	0	0	0	0
OR10H5	0	0	1	6	2	0
OR10J1	0	0	0	1	4	3
OR10J3	0	0	0	0	0	0
OR10J5	0	0	0	0	0	0
OR10K1	1	0	0	4	4	0
OR10K2	0	0	0	4	0	0
OR10P1	0	0	0	0	0	0
OR10Q1	0	0	0	0	0	0
OR10R2	0	0	0	0	0	0
OR10S1	0	0	0	0	0	0
OR10T2	0	0	0	0	0	0
OR10V1	0	0	0	0	0	0
OR10V2P	0	0	0	0	0	0
OR10W1	0	0	0	0	0	0
OR10X1	0	0	0	0	0	0
OR10Z1	1	0	0	0	2	8
OR11A1	0	0	0	0	0	3
OR11G2	1	2	1	37	15	56
OR11H1	0	0	0	0	0	0
OR11H12	0	0	0	0	0	0
OR11H2	0	0	0	0	0	0
OR11H4	0	0	0	0	0	0
OR11H6	0	0	0	0	0	0
OR11L1	0	0	0	0	0	0
OR12D2	0	0	0	0	0	0
OR12D3	0	0	0	0	0	0
OR13A1	0	0	1	0	0	3
OR13C2	0	0	0	0	0	0
OR13C3	0	0	0	0	0	0
OR13C4	0	0	0	0	0	0
OR13C5	0	0	0	0	0	0
OR13C8	0	0	0	0	0	0
OR13C9	0	0	0	0	0	0
OR13D1	0	0	0	0	0	0
OR13F1	0	0	0	0	0	0
OR13G1	0	0	0	0	0	0
OR13H1	0	0	0	0	0	0
OR13J1	0	0	0	0	0	0
OR14A16	0	0	0	0	2	0
OR14C36	0	0	0	0	0	0
OR14I1	0	0	0	0	0	0
OR14J1	0	0	0	0	0	0
OR1A1	0	0	0	9	0	19
OR1A2	0	0	0	0	0	0
OR1B1	0	0	0	0	0	0
OR1C1	0	0	0	0	0	0
OR1D2	4	1	1	6	2	19
OR1D4	0	0	0	0	0	0
OR1D5	0	0	0	0	0	0
OR1E1	0	0	0	0	0	0
OR1E2	0	0	0	0	0	0
OR1F1	0	0	0	0	0	0
OR1F2P	0	0	0	0	0	0
OR1G1	0	0	0	0	0	0
OR1I1	0	0	0	0	0	3
OR1J1	0	0	0	0	0	0
OR1J2	0	0	0	0	0	0
OR1J4	0	0	0	0	0	0
OR1K1	0	0	0	0	0	0
OR1L1	0	0	0	0	0	0
OR1L3	0	0	0	0	0	0
OR1L4	0	0	0	0	0	0
OR1L6	0	0	0	0	0	0
OR1L8	0	0	0	0	0	0
OR1M1	0	0	0	0	0	0
OR1N1	0	0	0	0	0	0
OR1N2	0	0	0	0	4	13
OR1Q1	0	0	0	0	0	0
OR1S1	0	0	0	0	0	0
OR1S2	0	0	0	0	0	0
OR2A1	0	0	0	0	0	0
OR2A12	2	5	3	19	15	35
OR2A14	0	0	0	0	0	0
OR2A2	0	0	0	0	0	0
OR2A20P	0	0	0	0	0	0
OR2A25	0	1	0	0	2	3
OR2A4	0	0	0	0	0	0
OR2A42	0	0	0	0	0	0
OR2A5	2	0	1	0	0	0
OR2A7	0	0	0	0	0	0
OR2A9P	0	0	0	0	0	0
OR2AE1	0	0	0	0	0	0
OR2AG1	2	0	0	4	0	0
OR2AG2	0	0	0	0	0	0
OR2AK2	0	0	0	0	0	0
OR2AT4	1	0	0	0	0	0
OR2B11	0	0	0	0	0	0
OR2B2	0	0	0	0	0	0
OR2B3	0	0	0	0	0	0
OR2B6	0	0	0	0	2	0
OR2C1	0	0	0	0	0	0
OR2C3	0	0	2	1	4	13
OR2D2	0	0	0	0	0	0
OR2D3	0	0	0	0	0	0
OR2F1	1	0	0	4	0	13
OR2F2	0	0	0	0	0	0
OR2G2	0	0	0	0	0	0
OR2G3	0	0	0	0	0	0
OR2G6	0	0	2	6	4	0
OR2H1	0	0	0	0	0	0
OR2H2	0	0	0	0	0	0

OR2J2	0	0	0	0	2	0
OR2J3	0	0	0	0	0	0
OR2K2	0	0	0	0	0	0
OR2L13	0	0	0	0	0	0
OR2L1P	0	0	0	0	0	0
OR2L2	0	0	0	0	0	0
OR2L3	1	0	0	0	0	0
OR2L8	0	0	0	0	0	0
OR2M1P	0	0	0	0	0	0
OR2M2	0	0	0	0	0	0
OR2M3	1	0	0	0	0	0
OR2M4	0	0	1	0	0	0
OR2M5	0	0	0	0	0	0
OR2M7	0	0	0	0	0	0
OR2S2	0	0	0	0	0	0
OR2T1	0	0	0	0	0	0
OR2T10	0	1	0	0	0	0
OR2T11	0	0	0	0	0	0
OR2T12	0	1	0	4	2	0
OR2T2	0	0	0	0	0	0
OR2T27	0	0	0	0	0	0
OR2T29	0	0	0	0	0	0
OR2T3	0	0	0	0	0	0
OR2T33	1	0	1	0	0	0
OR2T34	0	0	0	0	0	0
OR2T35	0	0	0	0	0	0
OR2T4	0	0	0	0	0	0
OR2T5	0	0	0	0	0	0
OR2T6	0	0	0	0	0	0
OR2T8	0	0	0	0	0	0
OR2V2	0	0	0	0	0	0
OR2W1	0	0	0	0	0	0
OR2W3	0	0	0	0	0	0
OR2W5	0	0	0	0	0	0
OR2Y1	0	0	0	0	0	0
OR2Z1	0	0	0	0	0	0
OR3A1	0	0	0	1	0	3
OR3A2	0	1	0	4	0	0
OR3A3	0	0	0	0	0	0
OR3A4P	0	0	0	0	0	0
OR4A15	0	0	0	0	0	0
OR4A16	0	0	0	0	0	0
OR4A47	0	0	0	0	0	0
OR4A5	0	0	0	0	0	0
OR4B1	0	0	0	0	0	0
OR4C11	0	0	0	0	0	0
OR4C12	0	0	0	0	0	0
OR4C13	0	0	0	0	0	0
OR4C15	0	0	0	0	0	0
OR4C16	0	0	0	0	0	0
OR4C3	0	0	0	0	0	0
OR4C45	0	0	0	0	0	0
OR4C46	0	0	0	0	0	0
OR4C6	0	0	0	0	0	0
OR4D1	12	6	5	22	21	13
OR4D10	0	0	0	0	0	0
OR4D11	0	0	0	0	0	0
OR4D2	0	0	0	0	0	0
OR4D5	0	0	0	0	0	0
OR4D6	0	0	0	0	0	0
OR4D9	2	0	2	1	12	8
OR4E2	0	0	0	0	0	0
OR4F15	0	0	0	0	0	0
OR4F16	0	0	0	0	0	0
OR4F17	0	0	0	0	0	0
OR4F21	0	0	0	0	0	0
OR4F29	0	0	0	0	0	0
OR4F3	0	0	0	0	0	0
OR4F4	0	0	0	0	0	0
OR4F5	0	0	0	0	0	0
OR4F6	0	0	0	0	0	0
OR4K1	0	0	0	0	0	0
OR4K13	0	0	0	0	0	0
OR4K14	0	0	0	0	0	0
OR4K15	0	0	0	0	0	0
OR4K17	13	23	23	103	103	169
OR4K2	0	0	0	0	2	0
OR4K5	0	0	0	0	0	0
OR4L1	0	0	0	0	0	0
OR4M1	0	0	0	0	0	0
OR4M2	0	0	0	0	0	0
OR4N2	0	0	2	6	15	8
OR4N3P	0	0	0	0	0	0
OR4N4	0	0	0	0	0	0
OR4N5	0	0	0	6	4	19
OR4P4	0	0	0	0	0	0
OR4Q3	0	0	0	1	2	0
OR4S1	0	0	0	0	0	0
OR4S2	0	0	0	0	0	0
OR4X1	0	0	0	0	0	0
OR4X2	0	0	0	0	0	0
OR51A2	0	0	0	0	0	0
OR51A4	1	0	0	0	0	0
OR51A7	0	0	0	0	0	0
OR51B2	0	0	0	0	0	0
OR51B4	0	0	0	0	0	0
OR51B5	0	0	0	0	0	3
OR51B6	0	0	0	0	0	0
OR51D1	0	0	0	0	2	0
OR51E1	0	0	0	1	0	0
OR51E2	0	0	0	0	0	0
OR51F1	0	0	0	0	0	0
OR51F2	0	0	0	0	0	0

OR51G1	0	0	0	0	0	0
OR51G2	0	0	0	0	0	0
OR51I1	0	0	0	0	0	0
OR51I2	0	0	3	4	12	0
OR51L1	0	0	0	0	0	3
OR51M1	0	0	0	0	0	0
OR51Q1	0	0	0	0	0	0
OR51S1	0	0	0	0	0	0
OR51T1	0	0	0	0	0	0
OR51V1	0	0	0	0	0	0
OR52A1	0	1	0	0	7	35
OR52A5	4	2	2	9	7	30
OR52B2	0	0	0	0	0	0
OR52B4	0	0	0	0	0	0
OR52B6	0	0	0	0	0	0
OR52D1	0	0	0	0	0	0
OR52E2	0	0	0	0	0	0
OR52E4	0	0	0	0	0	0
OR52E6	0	0	0	0	0	0
OR52E8	0	0	0	0	0	0
OR52H1	1	0	0	0	2	0
OR52I1	0	0	1	4	0	3
OR52I2	0	0	0	0	0	0
OR52J3	0	0	0	0	0	0
OR52K1	1	0	2	4	0	0
OR52K2	0	0	0	0	0	0
OR52L1	0	0	0	0	0	0
OR52M1	0	0	0	0	0	0
OR52N1	0	0	0	0	0	0
OR52N2	0	0	0	1	0	0
OR52N4	0	0	0	25	4	24
OR52N5	2	2	3	37	67	61
OR52R1	0	0	0	0	0	0
OR52W1	0	0	0	0	0	0
OR56A1	0	0	0	0	0	0
OR56A3	1	1	0	1	9	0
OR56A4	0	0	0	0	0	0
OR56B1	0	0	0	0	0	3
OR56B4	0	0	0	0	0	0
OR5A1	2	0	0	1	0	3
OR5A2	0	0	0	0	0	0
OR5AC2	0	0	0	0	0	0
OR5AK2	0	0	0	0	0	0
OR5AK4P	0	0	0	0	0	0
OR5AN1	1	2	0	4	7	0
OR5AP2	0	0	0	0	0	0
OR5AR1	0	0	0	0	0	0
OR5A51	0	1	5	6	9	46
OR5AU1	0	0	0	31	0	40
OR5B12	0	0	0	1	0	8
OR5B17	0	0	0	0	0	0
OR5B2	0	0	0	0	0	0
OR5B21	0	0	0	0	0	0
OR5B3	0	0	0	0	0	0
OR5C1	0	0	0	0	0	0
OR5D13	0	0	0	0	0	0
OR5D14	0	0	0	0	0	0
OR5D16	0	0	0	0	0	0
OR5D18	0	0	0	0	0	0
OR5E1P	0	0	0	0	0	0
OR5F1	0	0	0	0	0	0
OR5H1	1	0	0	0	0	0
OR5H14	0	0	0	0	0	0
OR5H15	0	0	0	0	0	0
OR5H2	0	0	0	0	0	0
OR5H6	0	0	0	0	0	0
OR5I1	0	0	0	0	0	0
OR5J2	0	0	0	0	0	0
OR5K1	0	0	0	0	0	0
OR5K2	0	0	0	0	0	0
OR5K3	0	0	0	0	0	0
OR5K4	0	0	0	0	0	0
OR5L1	0	0	0	0	0	0
OR5L2	0	0	0	0	0	0
OR5M1	0	0	0	0	0	0
OR5M10	0	0	0	0	0	0
OR5M11	0	0	0	0	0	0
OR5M3	0	0	0	0	0	0
OR5M8	0	0	0	0	0	0
OR5M9	0	0	0	0	0	0
OR5P2	0	0	0	0	0	0
OR5P3	0	0	0	0	0	0
OR5R1	0	0	0	0	0	0
OR5T1	0	0	0	1	0	13
OR5T2	0	0	0	0	0	0
OR5T3	0	0	0	0	0	0
OR5V1	0	0	0	0	0	0
OR5W2	0	0	0	0	0	0
OR6A2	0	0	0	0	0	0
OR6B1	0	0	0	0	0	0
OR6B2	0	0	0	0	0	0
OR6B3	0	0	0	0	0	0
OR6C1	0	0	0	0	0	0
OR6C2	0	0	0	0	0	0
OR6C3	0	0	0	0	0	0
OR6C4	0	0	0	0	0	0
OR6C6	0	1	0	0	0	0
OR6C65	0	0	0	0	0	0
OR6C68	0	0	0	0	0	0
OR6C70	0	0	0	0	0	0
OR6C74	0	0	0	1	2	19
OR6C75	0	0	0	0	2	0
OR6C76	0	0	0	0	0	0

OR6F1	0	0	0	0	0	8
OR6K2	0	0	0	0	0	0
OR6K3	0	0	0	0	0	0
OR6K6	0	0	0	0	0	0
OR6M1	0	0	0	0	0	0
OR6N1	0	0	0	0	0	0
OR6N2	1	0	0	0	0	0
OR6P1	0	2	1	0	0	0
OR6Q1	0	0	0	0	0	0
OR6S1	0	0	0	0	0	0
OR6T1	0	0	0	0	0	0
OR6V1	0	0	0	0	0	0
OR6W1P	0	0	0	0	0	0
OR6X1	0	0	0	0	0	0
OR6Y1	2	4	0	0	0	8
OR7A10	0	0	0	0	0	0
OR7A17	0	0	2	6	7	13
OR7A5	2	0	0	6	2	0
OR7C1	0	5	2	25	9	46
OR7C2	0	0	0	0	0	0
OR7D2	1	1	0	37	15	61
OR7D4	0	1	2	0	0	0
OR7E12P	0	0	0	0	0	0
OR7E14P	0	0	0	0	0	0
OR7E156P	0	0	0	0	0	0
OR7E24	0	0	0	0	0	0
OR7E2P	0	0	0	0	0	0
OR7E37P	0	0	0	0	0	0
OR7E5P	0	0	0	0	0	0
OR7E91P	0	0	0	0	0	0
OR7G1	0	0	0	0	0	0
OR7G2	0	0	0	0	0	0
OR7G3	0	0	0	0	0	0
OR8A1	5	2	6	25	27	56
OR8B12	0	0	0	0	0	0
OR8B2	0	0	0	0	0	0
OR8B3	0	0	0	0	0	0
OR8B4	0	0	0	0	0	0
OR8B8	0	0	0	0	0	0
OR8D1	0	0	0	0	0	0
OR8D2	0	0	0	0	0	0
OR8D4	10	11	11	40	67	94
OR8G1	0	0	0	0	0	0
OR8G5	0	0	0	0	0	0
OR8H1	1	1	0	19	0	3
OR8H2	0	0	0	0	0	0
OR8H3	0	0	0	0	0	0
OR8J2	0	0	0	0	0	0
OR8J1	0	0	0	1	0	13
OR8J3	0	0	0	0	0	0
OR8K1	0	0	0	0	0	0
OR8K3	0	0	0	0	0	0
OR8K5	0	0	0	0	0	0
OR8S1	1	0	0	4	2	8
OR8U1	0	0	0	0	0	0
OR9A2	0	0	0	0	0	0
OR9A4	0	0	0	0	0	0
OR9G1	0	0	0	0	0	0
OR9G4	0	0	0	0	0	0
OR9I1	0	0	0	0	0	0
OR9K2	0	0	0	0	0	0
OR9Q1	0	1	1	13	12	13
OR9Q2	0	0	0	1	0	0
ORAI1	46	47	42	37	49	19
ORAI2	85	86	101	100	108	117
ORAI3	61	80	69	19	41	3
ORC1	0	1	6	4	7	3
ORC2	147	139	144	219	208	143
ORC3	42	38	21	74	65	84
ORC4	74	91	89	112	122	112
ORC5	32	33	29	112	84	94
ORC6	2	11	8	6	9	8
ORM1	0	0	0	0	0	0
ORM2	0	0	0	0	0	0
ORMDL1	532	468	453	517	463	422
ORMDL2	98	125	151	84	97	79
ORMDL3	111	97	97	165	140	176
OS9	176	192	179	72	90	46
OSBP	188	204	181	261	242	275
OSBP2	1	2	0	0	0	3
OSBPL10	26	28	45	134	111	154
OSBPL11	283	270	307	127	149	112
OSBPL1A	205	153	169	13	9	19
OSBPL2	78	83	87	98	54	89
OSBPL3	98	96	134	103	87	75
OSBPL5	28	30	26	6	27	0
OSBPL6	9	11	7	19	38	40
OSBPL7	31	24	22	69	52	30
OSBPL8	1092	998	974	937	1055	949
OSBPL9	152	159	134	139	177	139
OSCAR	67	54	63	0	4	0
OSCP1	0	0	0	0	2	3
OSGEP	88	92	100	112	67	35
OSGEP11	41	30	30	69	35	71
OSGIN1	6	8	5	0	0	0
OSGIN2	147	155	164	82	127	112
OSM	74	62	57	13	38	24
OSMR	0	0	0	0	0	0
OSR1	0	0	0	0	0	0
OSR2	0	0	0	0	0	0
OST4	343	421	447	557	631	558
OSTC	334	369	288	290	288	317
OSTCP1	4	11	5	1	4	0

OSTF1	126	142	155	66	69	35
OSTM1	250	206	214	103	131	107
OSTN	0	1	0	0	0	3
OTC	0	0	0	0	0	0
OTOA	0	0	1	0	0	0
OTOF	0	0	0	0	0	0
OTOG1	0	2	1	1	0	13
OTOL1	0	0	0	0	0	0
OTOP1	0	0	0	0	0	0
OTOP2	0	0	0	0	0	0
OTOP3	0	0	0	0	0	0
OTOR	0	0	2	1	7	24
OTOS	0	0	0	0	0	0
OTP	0	0	0	0	0	3
OTUB1	55	62	80	25	52	51
OTUB2	0	0	0	0	0	0
OTUD1	136	117	93	53	97	66
OTUD3	35	46	42	31	18	13
OTUD4	170	158	190	237	236	245
OTUD5	102	100	120	155	151	151
OTUD6A	0	0	0	0	0	0
OTUD6B	84	68	82	84	77	128
OTUD7A	28	15	23	48	72	19
OTUD7B	15	23	32	43	65	66
OTX1	0	0	0	0	0	0
OTX2	0	1	0	0	0	0
OVCA2	0	0	0	0	0	0
OVCH1	0	2	0	22	21	40
OVCH2	0	0	0	0	0	0
OVGP1	0	1	3	13	0	0
OVOL1	0	0	0	0	0	0
OVOL2	0	0	0	0	0	0
OXA1L	158	171	168	184	189	143
OXCT1	54	49	57	157	133	84
OXCT2	0	0	0	0	0	0
OXER1	0	0	1	0	0	0
OXGR1	0	0	0	0	0	0
OXNAD1	127	142	137	187	191	196
OXR1	270	258	225	278	257	251
OXSM	23	12	16	22	21	19
OXSR1	320	236	276	136	177	136
OXT	0	0	0	0	0	0
OXTR	2	0	1	1	0	3
P2RX1	14	14	13	4	7	3
P2RX2	0	0	0	0	0	0
P2RX3	0	0	0	0	0	0
P2RX4	58	45	67	16	38	13
P2RX5	18	20	24	25	35	24
P2RX5-TAX1BP3	0	0	0	0	0	0
P2RX6	0	0	0	0	0	8
P2RX6P	0	0	0	0	0	0
P2RX7	118	104	101	40	46	35
P2RY1	4	0	1	0	0	8
P2RY10	151	136	108	179	189	213
P2RY11	41	37	47	28	35	24
P2RY12	0	0	0	0	0	0
P2RY13	28	20	25	1	0	0
P2RY14	34	47	44	28	30	51
P2RY2	1	6	3	0	0	0
P2RY4	0	0	0	0	0	0
P2RY6	50	73	40	0	2	0
P2RY8	150	203	164	317	332	291
P4HA1	562	546	455	321	503	264
P4HA2	12	13	7	53	24	89
P4HA3	0	0	0	0	4	0
P4HB	305	331	319	180	158	98
P4HTM	29	25	32	37	33	13
PA2G4	488	508	409	625	627	626
PA2G4P4	26	31	26	93	75	143
PAAF1	36	42	39	51	65	98
PABPC1	6045	5644	6045	7072	6588	7072
PABPC1L	36	24	40	93	60	136
PABPC1L2A	0	0	0	0	0	0
PABPC1L2B	0	0	0	0	0	0
PABPC1P2	0	1	1	1	0	0
PABPC3	122	127	95	228	214	291
PABPC4	650	559	532	921	900	960
PABPC4L	1	0	0	0	0	0
PABPC5	19	26	11	72	111	179
PABPN1	240	248	279	327	387	365
PABPN1L	0	0	0	0	0	0
PACRG	0	0	0	0	0	0
PACRGL	6	12	8	9	7	0
PACS1	101	129	165	165	168	121
PACS2	31	31	30	56	30	8
PACSIN1	5	1	3	0	0	0
PACSIN2	75	88	80	43	38	66
PACSIN3	0	0	0	1	0	0
PADI1	0	0	0	0	0	0
PADI2	70	48	42	9	0	0
PADI3	0	0	0	0	0	0
PADI4	1	6	9	6	4	0
PADI6	0	0	0	0	0	0
PAEP	0	0	0	0	0	0
PAF1	66	63	54	95	65	94
PAFAH1B1	422	436	429	520	608	586
PAFAH1B2	330	295	249	356	292	301
PAFAH1B3	9	6	7	1	7	0
PAFAH2	88	78	87	76	46	71
PAG1	791	756	857	1232	1354	1186
PAGE1	0	0	0	0	0	0
PAGE2	0	0	0	0	0	0
PAGE2B	1	0	0	0	0	0

PAGE3	0	0	0	0	0	0
PAGE4	0	0	0	0	0	0
PAGE5	0	0	0	0	0	0
PAH	0	0	0	0	0	0
PAICS	108	97	130	127	133	89
PAIP1	23	28	24	28	12	0
PAIP2	560	589	549	601	584	554
PAIP2B	4	8	7	0	0	0
PAK1	273	296	240	60	52	66
PAK1IP1	99	72	89	56	43	71
PAK2	623	640	589	616	610	711
PAK3	1	2	8	37	15	13
PAK4	4	4	2	0	0	3
PAK6	0	0	0	0	0	0
PALB2	66	61	76	93	92	61
PALLD	41	34	55	16	15	3
PALM	0	0	1	0	0	0
PALM2	0	0	0	0	0	3
PALM2-AKAP2	0	0	0	0	0	0
PALM3	0	0	0	0	0	0
PALMD	2	0	1	0	2	3
PAM	60	60	51	58	46	13
PAM16	0	0	1	1	0	3
PAMR1	0	0	0	0	0	0
PAN2	40	34	36	108	41	84
PAN3	184	174	203	280	240	291
PAN3-AS1	1	2	2	40	18	30
PANK1	5	6	1	1	0	0
PANK2	178	175	199	309	335	301
PANK3	225	209	210	153	155	139
PANK4	31	38	31	37	24	30
PANX1	40	30	35	13	18	0
PANX2	0	2	9	0	0	0
PANX3	0	0	0	0	0	0
PAOX	28	24	9	4	4	0
PAPLN	0	4	1	0	0	0
PAPOLA	1133	1104	1110	998	1006	1060
PAPOLB	2	0	0	0	0	0
PAPOLG	107	100	89	127	133	128
PAPPA	17	6	5	82	62	94
PAPPA2	5	1	0	43	21	89
PAPSS1	313	375	320	132	124	98
PAPSS2	24	30	21	13	0	3
PAQR3	50	41	37	19	30	30
PAQR4	18	2	8	0	4	0
PAQR5	0	0	0	0	0	0
PAQR6	0	1	3	22	9	51
PAQR7	9	7	7	0	2	0
PAQR8	100	104	112	98	117	121
PAQR9	0	0	0	0	0	0
PARD3	1	1	0	1	0	8
PARD3B	1	0	8	9	18	13
PARD6A	6	13	18	4	7	0
PARD6B	47	35	34	108	127	112
PARD6G	7	9	3	4	0	0
PARG	58	43	39	53	41	79
PARK7	367	397	346	369	357	372
PARL	108	130	126	119	133	128
PARM1	9	4	6	4	12	19
PARN	94	67	74	159	113	151
PARP1	227	264	249	400	402	393
PARP10	24	17	45	16	7	0
PARP11	127	135	160	125	149	176
PARP12	82	91	90	79	67	71
PARP14	940	984	1116	689	667	760
PARP15	76	77	76	66	72	30
PARP16	51	54	37	51	52	51
PARP2	37	26	21	19	9	0
PARP3	25	49	40	66	77	98
PARP4	94	65	93	69	69	40
PARP6	37	46	39	66	52	98
PARP8	334	301	355	495	440	369
PARP9	819	805	888	568	617	781
PARPBP	14	12	14	1	2	0
PARS2	1	9	8	0	12	0
PART1	0	0	3	4	7	0
PARVA	4	1	0	1	9	8
PARVB	68	50	48	6	18	13
PARVG	106	111	115	60	54	71
PASD1	0	0	0	0	0	0
PASK	182	202	200	627	564	600
PATE1	0	0	0	0	0	0
PATE2	4	0	2	1	2	3
PATE3	0	0	0	0	0	0
PATE4	0	0	0	0	0	0
PATL1	107	121	127	63	69	79
PATL2	70	69	80	211	187	301
PATZ1	106	98	88	79	100	94
PAWR	37	29	28	87	65	98
PAX1	0	0	0	0	0	0
PAX2	0	0	0	0	0	0
PAX3	4	1	0	0	12	0
PAX4	0	0	0	0	0	0
PAX5	113	107	108	263	261	267
PAX6	2	1	0	1	2	0
PAX7	0	0	0	0	0	0
PAX8	0	0	0	0	0	0
PAX9	0	0	0	0	0	0
PAXIP1	76	80	82	60	46	51
PBK	0	0	0	0	0	0
PBLD	4	5	1	19	7	13
PBOV1	0	1	0	6	9	3
PBRM1	803	713	804	539	503	562

PBX1	6	2	7	28	15	30
PBX2	9	6	9	16	9	0
PBX3	102	139	129	76	122	107
PBX4	25	24	23	58	41	94
PBXIP1	450	456	542	848	935	729
PC	2	0	3	0	0	0
PCA3	0	1	0	1	9	3
PCAT1	9	12	21	22	18	13
PCBD1	32	30	31	1	15	8
PCBD2	28	20	29	16	27	8
PCBP1	1978	1990	1942	1644	1751	1675
PCBP1-AS1	32	48	66	66	46	71
PCBP2	1075	1209	1280	1408	1403	1298
PCBP3	10	5	2	16	18	13
PCBP4	9	14	25	6	4	0
PCCA	13	12	20	1	15	24
PCCB	17	11	14	0	9	0
PCDH1	5	1	1	0	0	0
PCDH10	0	0	2	1	0	0
PCDH11X	0	0	0	0	0	0
PCDH11Y	0	0	0	0	0	0
PCDH12	1	0	0	0	0	0
PCDH15	5	1	0	6	7	19
PCDH17	4	1	2	22	35	51
PCDH18	0	0	0	0	0	0
PCDH19	0	0	1	0	4	8
PCDH20	0	0	0	0	0	0
PCDH7	14	15	14	58	43	112
PCDH8	1	0	0	0	0	0
PCDH9	72	80	72	87	72	112
PCDHA1	0	0	0	0	0	0
PCDHA10	0	0	0	0	0	0
PCDHA11	0	0	0	0	0	0
PCDHA12	0	2	0	4	0	0
PCDHA13	0	0	0	0	0	0
PCDHA2	0	0	0	0	0	0
PCDHA3	0	0	0	0	0	0
PCDHA4	0	0	3	0	4	0
PCDHA5	0	0	0	0	0	0
PCDHA6	0	0	0	0	0	0
PCDHA7	0	0	0	0	0	0
PCDHA8	0	0	0	0	0	0
PCDHA9	0	0	0	0	0	0
PCDHAC1	0	0	0	0	0	0
PCDHAC2	0	0	0	0	0	0
PCDHB1	1	0	0	0	4	3
PCDHB10	0	0	0	0	0	0
PCDHB11	0	0	0	0	0	0
PCDHB12	0	0	0	0	0	0
PCDHB13	0	0	0	0	0	0
PCDHB14	0	0	0	0	0	0
PCDHB15	0	0	0	0	0	0
PCDHB16	1	1	5	13	12	40
PCDHB19P	0	0	0	0	0	0
PCDHB2	0	0	0	0	0	0
PCDHB3	0	0	0	0	0	0
PCDHB4	0	0	0	0	0	0
PCDHB5	0	0	0	0	0	0
PCDHB6	0	0	0	0	0	0
PCDHB7	0	0	0	0	0	0
PCDHB8	0	0	0	0	0	0
PCDHB9	1	0	1	9	12	13
PCDHGA1	0	1	0	6	9	40
PCDHGA10	0	0	2	9	0	8
PCDHGA11	0	0	0	0	0	0
PCDHGA12	0	0	0	0	0	0
PCDHGA2	0	0	0	0	0	0
PCDHGA3	0	0	0	0	0	0
PCDHGA4	0	0	0	0	0	0
PCDHGA5	0	0	1	0	0	0
PCDHGA6	2	5	2	0	0	0
PCDHGA7	0	0	0	0	0	0
PCDHGA8	0	0	0	0	0	0
PCDHGA9	0	0	0	0	0	0
PCDHGB1	0	0	0	0	0	0
PCDHGB2	0	0	0	0	0	0
PCDHGB3	0	0	0	0	0	0
PCDHGB4	0	0	0	0	0	0
PCDHGB6	0	0	0	0	0	0
PCDHGB7	0	0	0	6	0	0
PCDHGB8P	0	0	0	0	0	0
PCDHGC3	0	0	0	0	0	0
PCDHGC4	0	0	0	0	0	0
PCDHGC5	0	0	0	0	0	0
PCF11	714	659	739	902	778	940
PCGEM1	0	0	0	0	0	0
PCGF1	20	4	13	6	7	3
PCGF2	0	0	0	1	0	0
PCGF3	172	157	183	134	144	147
PCGF5	451	468	442	441	459	362
PCGF6	25	24	29	51	27	30
PCID2	220	233	230	351	343	369
PCIF1	24	26	17	4	38	19
PCK1	0	0	0	4	0	24
PCK2	72	47	61	4	12	3
PCLO	4	5	3	19	24	51
PCM1	734	679	711	973	873	1002
PCMT1	326	371	281	224	230	173
PCMTD1	427	380	440	461	452	511
PCMTD2	279	270	283	383	307	308
PCNA	167	151	186	95	117	46
PCNAP1	0	0	0	0	0	0
PCNP	423	397	350	609	517	558

PCNT	189	153	152	145	162	143
PCOLCE	0	0	5	1	0	3
PCOLCE2	0	5	0	0	4	0
PCP2	2	1	1	0	7	0
PCP4	0	0	0	0	0	0
PCP4L1	0	0	0	0	0	0
PCSK1	0	0	0	0	0	0
PCSK1N	0	0	1	0	0	0
PCSK2	1	5	2	22	18	46
PCSK4	0	0	0	0	0	0
PCSK5	32	42	35	22	41	24
PCSK6	0	0	0	0	0	0
PCSK7	84	129	121	136	90	162
PCSK9	0	0	0	0	0	0
PCTP	67	62	63	13	9	0
PCYOX1	85	80	66	82	87	84
PCYOX1L	39	32	29	31	38	24
PCYT1A	231	255	276	201	185	139
PCYT1B	0	0	0	0	2	0
PCYT2	12	11	9	19	2	3
PDAP1	117	98	99	143	149	107
PDC	0	0	0	0	0	0
PDCD1	0	2	0	0	0	0
PDCD10	329	353	319	254	288	213
PDCD11	93	84	77	119	133	103
PDCD1LG2	72	56	58	0	0	0
PDCD2	250	260	230	362	338	340
PDCD2L	12	15	15	19	21	13
PDCD4	512	554	521	787	879	778
PDCD5	178	162	132	114	137	89
PDCD6	383	379	312	531	450	514
PDCD6IP	493	485	473	590	468	526
PD CD7	185	159	162	305	316	335
PDCL	106	95	67	60	52	61
PDCL2	0	0	0	0	0	0
PDCL3	83	105	85	34	54	30
PDE10A	1	1	1	1	9	13
PDE11A	1	0	2	3	18	13
PDE12	111	98	87	106	122	124
PDE1A	6	6	5	9	2	3
PDE1B	0	1	0	9	0	3
PDE1C	0	0	2	9	2	0
PDE2A	1	0	0	84	41	128
PDE3A	0	0	0	1	0	3
PDE3B	833	730	759	1190	1096	1031
PDE4A	93	87	108	34	52	30
PDE4B	322	279	302	315	311	376
PDE4C	0	0	0	0	0	0
PDE4D	330	310	314	470	550	467
PDE4DIP	98	108	105	95	120	98
PDE5A	2	5	0	1	12	8
PDE6A	4	0	0	1	2	0
PDE6B	6	2	3	6	7	13
PDE6C	0	0	0	0	0	0
PDE6D	40	40	31	19	24	8
PDE6G	4	2	1	9	4	0
PDE6H	0	0	0	0	0	0
PDE7A	236	259	257	452	362	425
PDE7B	30	26	28	93	95	117
PDE8A	59	52	66	53	35	71
PDE8B	1	0	0	13	21	24
PDE9A	1	4	3	6	7	0
PDF	0	0	0	0	0	0
PDGFA	13	9	16	31	43	71
PDGFB	74	78	77	25	27	24
PDGFC	24	20	24	6	2	19
PDGFD	20	23	11	19	18	19
PDGFRA	9	13	11	40	52	107
PDGFRB	1	5	5	0	0	0
PDGFRL	0	0	0	0	0	0
PDHA1	269	300	261	274	252	224
PDHA2	0	0	0	0	0	0
PDHB	126	111	127	69	57	46
PDHX	74	95	60	53	67	71
PDIA2	0	0	0	0	0	0
PDIA3	528	584	562	243	288	258
PDIA4	358	382	339	199	214	139
PDIA5	34	24	21	9	12	13
PDIA6	897	870	727	286	302	241
PDIK1L	41	38	54	66	67	121
PDILT	0	0	0	0	0	0
PDK1	252	277	323	288	407	362
PDK2	18	24	16	6	18	0
PDK3	62	76	59	66	95	56
PDK4	99	97	108	1	4	0
PDLM1	20	25	20	51	62	24
PDLM2	46	61	67	34	54	40
PDLM3	5	6	3	19	15	51
PDLM4	0	1	0	0	0	0
PDLM5	192	198	179	79	84	51
PDLM7	5	16	14	0	0	0
PDP1	262	255	194	51	79	30
PDP2	40	45	36	51	57	30
PDPK1	262	292	289	280	245	230
PDPN	0	0	2	0	0	0
PDPR	93	98	88	175	168	136
PDRG1	45	40	32	79	72	61
PDSSA	501	525	432	622	540	558
PDSSB	409	346	399	358	370	362
PDSS1	42	39	41	0	2	3
PDSS2	69	81	69	60	60	79
PDX1	0	0	0	0	0	0
PDXDC1	264	285	259	351	268	372

PDXDC2P	0	0	0	0	0	0
PDXK	195	222	258	123	77	112
PDXP	0	0	0	0	0	0
PDYN	0	0	0	0	0	0
PDZD11	21	25	20	4	4	8
PDZD2	1	1	6	0	2	0
PDZD3	0	0	0	0	0	0
PDZD4	5	5	7	6	7	0
PDZD7	0	0	1	0	0	8
PDZD8	155	134	124	157	142	182
PDZD9	0	1	0	0	0	0
PDZK1	0	0	0	9	0	0
PDZK1IP1	0	0	0	4	0	0
PDZK1P1	0	0	0	0	0	0
PDZRN3	0	0	0	0	0	0
PDZRN4	0	0	0	0	2	0
PEA15	627	753	749	82	131	71
PEAK1	60	65	72	58	62	40
PEAR1	0	0	0	1	0	3
PEBP1	773	812	843	1021	1088	997
PEBP4	0	0	0	0	0	8
PECAM1	151	155	123	31	24	35
PECR	21	17	28	9	15	3
PEF1	37	35	24	28	60	30
PEG10	7	9	3	0	2	3
PEG3	1	1	0	1	2	19
PELI1	113	118	157	173	137	162
PELI2	69	73	60	60	60	30
PELI3	7	9	3	0	2	0
PELO	35	25	31	45	43	46
PELP1	80	72	76	153	166	147
PEMT	2	8	6	0	2	0
PENK	0	0	0	0	0	0
PEPD	185	139	136	48	67	30
PER1	68	45	52	103	84	124
PER2	54	42	34	25	38	13
PER3	17	16	15	4	12	8
PERP	61	32	35	51	69	3
PES1	48	41	71	31	38	35
PET117	24	20	23	31	15	13
PEX1	106	106	89	165	133	165
PEX10	14	22	11	6	15	3
PEX11A	15	13	12	4	12	3
PEX11B	77	68	75	110	122	117
PEX11G	0	2	0	13	18	24
PEX12	23	16	8	93	67	121
PEX13	70	67	58	60	57	107
PEX14	39	38	35	22	35	35
PEX16	15	16	15	28	9	3
PEX19	126	106	137	95	84	84
PEX2	88	57	60	84	79	66
PEX26	152	136	178	123	155	124
PEX3	41	47	47	51	54	8
PEX5	15	22	9	9	0	8
PEX5L	0	1	0	4	9	0
PEX6	14	8	20	37	38	24
PEX7	40	34	34	19	21	35
PF4	172	197	134	331	359	376
PF4V1	7	16	6	28	7	8
PFAS	20	12	11	4	2	0
PFDN1	121	100	98	108	103	75
PFDN2	167	195	151	237	177	185
PFDN4	146	144	100	161	135	151
PFDN5	701	856	896	1482	1598	1360
PFDN6	64	62	76	53	72	19
PFKFB1	0	0	0	0	0	0
PFKFB2	24	22	18	13	2	19
PFKFB3	196	188	195	298	365	294
PFKFB4	35	24	30	6	12	0
PFKL	111	113	109	60	82	30
PFKM	10	8	5	6	2	3
PFKP	96	115	119	95	127	30
PFN1	739	862	854	409	450	359
PFN1P2	0	0	0	0	0	8
PFN2	15	24	8	63	43	19
PFN3	0	0	0	0	0	0
PFN4	0	0	0	0	0	0
PGA3	0	0	0	0	0	0
PGA4	0	0	0	0	0	0
PGA5	0	0	0	0	0	0
PGAM1	24	14	14	16	49	0
PGAM2	0	0	0	4	0	0
PGAM4	0	0	0	0	0	0
PGAM5	62	72	79	53	77	51
PGAP1	46	39	43	132	113	245
PGAP2	44	46	35	51	49	24
PGAP3	13	28	34	13	7	0
PGBD1	2	1	3	4	2	0
PGBD2	35	48	42	16	27	3
PGBD4	35	24	16	69	54	79
PGBD5	0	0	2	6	7	0
PGC	0	0	0	1	0	0
PGCP1	0	0	0	0	0	0
PGD	197	197	171	34	54	40
PGF	0	0	0	0	0	0
PGGT1B	223	204	190	179	149	147
PGK1	1469	1515	1352	863	1333	651
PGK2	0	0	0	0	0	0
PGL5	30	32	32	48	24	30
PGLYRP1	0	0	0	0	0	0
PGLYRP2	0	1	0	0	2	0
PGLYRP3	0	0	0	0	0	0
PGLYRP4	0	0	0	0	0	0

PGM1	26	41	37	37	41	24
PGM2	83	90	79	13	21	8
PGM2L1	76	90	88	100	137	128
PGM3	102	109	119	51	52	56
PGM5	0	0	0	0	0	0
PGM5P2	0	0	0	1	0	3
PGP	80	72	89	69	41	24
PGPEP1	60	54	63	51	41	40
PGPEP1L	0	0	0	0	0	0
PGR	1	1	1	4	4	8
PGRMC1	147	128	98	63	72	84
PGRMC2	150	151	108	195	155	103
PGS1	48	58	57	90	79	56
PHACTR1	60	56	63	117	137	136
PHACTR2	470	441	442	473	405	475
PHACTR3	0	0	0	0	0	3
PHACTR4	184	175	192	173	203	151
PHAX	310	308	237	340	354	359
PHB	64	61	83	56	65	40
PHB2	229	244	249	362	357	388
PHC1	30	22	28	37	43	30
PHC2	50	62	62	40	46	35
PHC3	439	464	445	536	513	511
PHEX	12	4	8	13	9	24
PHF1	116	101	136	98	140	98
PHF10	345	297	364	502	537	478
PHF11	408	427	447	448	387	312
PHF12	69	38	68	98	106	117
PHF13	51	47	58	76	65	75
PHF14	278	241	268	372	319	456
PHF19	80	98	87	201	185	188
PHF2	237	208	200	234	240	237
PHF20	203	170	229	228	245	267
PHF20L1	536	459	531	325	362	379
PHF21A	225	237	224	430	305	337
PHF21B	0	0	0	1	0	0
PHF23	114	111	112	121	115	103
PHF3	992	933	1031	1284	1178	1450
PHF5A	114	102	100	100	166	162
PHF6	235	228	227	271	277	282
PHF7	22	16	9	45	30	40
PHF8	147	143	109	165	129	147
PHGDH	5	6	7	9	12	8
PHGR1	0	0	0	0	0	0
PHIP	710	702	830	720	653	695
PHKA1	0	0	0	0	4	0
PHKA2	34	33	39	37	30	19
PHKB	204	190	200	226	185	230
PHKG1	0	2	0	6	0	13
PHKG2	21	23	15	16	21	0
PHLDA1	107	130	88	53	92	61
PHLDA2	42	31	31	153	84	185
PHLDA3	0	0	1	0	0	0
PHLDB1	2	0	5	9	4	3
PHLDB2	30	43	30	87	84	151
PHLDB3	10	9	9	1	0	0
PHLPP1	40	25	39	16	21	19
PHLPP2	38	34	41	66	38	35
PHOSPHO1	0	0	0	0	0	0
PHOSPHO2	21	13	12	13	27	3
PHOX2A	0	0	0	0	0	0
PHOX2B	0	0	0	19	7	0
PHPT1	32	37	32	4	7	0
PHRF1	143	129	172	182	166	207
PHTF1	54	54	48	51	62	35
PHTF2	128	131	130	139	144	117
PHYH	38	35	26	34	33	46
PHYHD1	0	0	0	0	2	0
PHYHIP	0	0	0	0	0	0
PHYHIPL	0	0	0	1	0	0
PI15	5	2	0	1	0	3
PI16	0	0	0	0	0	0
PI3	0	0	0	0	0	0
PI4K2A	59	67	53	25	18	24
PI4K2B	59	60	61	58	52	19
PI4KA	55	35	35	45	18	8
PI4KAP1	0	0	0	0	0	0
PI4KAP2	0	0	0	0	0	0
PI4KB	45	37	36	63	46	35
PIAS1	984	973	945	728	733	734
PIAS2	88	98	138	175	212	192
PIAS3	36	37	23	4	9	0
PIAS4	60	65	71	58	69	51
PIBF1	76	66	72	112	82	151
PICALM	416	421	383	305	249	321
PICK1	5	8	9	1	2	0
PID1	39	42	11	0	2	0
PIEZO1	55	52	37	66	27	35
PIEZO2	5	1	1	4	2	3
PIF1	7	5	8	1	9	0
PIGA	22	25	29	4	27	46
PIGB	55	49	42	28	43	35
PIGC	119	93	96	121	106	128
PIGF	24	32	18	40	27	13
PIGG	41	49	41	66	67	75
PIGH	32	29	32	37	21	3
PIGK	100	100	108	167	144	154
PIGL	44	35	48	119	92	132
PIGM	140	111	113	226	206	241
PIGN	82	111	85	95	67	75
PIGO	15	24	15	40	24	35
PIGP	78	57	47	134	127	176
PIGQ	6	2	7	4	4	0

PIGR	0	0	0	0	0	0
PIGS	111	135	136	90	103	71
PIGT	77	73	100	76	95	66
PIGU	18	23	12	13	21	3
PIGV	31	21	20	28	12	8
PIGW	35	26	22	25	21	3
PIGX	121	129	121	121	131	117
PIGY	0	0	0	0	0	0
PIGZ	0	2	0	0	0	0
PIH1D1	163	153	119	155	151	103
PIH1D2	0	0	2	0	0	0
PIK3AP1	218	228	193	171	162	151
PIK3C2A	159	139	177	180	191	237
PIK3C2B	19	24	22	51	33	24
PIK3C2G	0	0	0	4	2	8
PIK3C3	292	273	258	304	325	288
PIK3CA	297	273	289	377	357	514
PIK3CB	126	100	106	103	92	75
PIK3CD	499	449	424	726	722	697
PIK3CG	63	79	69	127	115	143
PIK3IP1	492	572	600	1059	1168	1035
PIK3R1	1488	1545	1525	2138	2087	2067
PIK3R2	13	9	12	0	7	0
PIK3R3	11	16	9	4	21	8
PIK3R4	139	114	115	139	179	132
PIK3R5	257	273	330	213	170	173
PIK3R6	4	5	5	6	4	0
PIKFYVE	269	228	254	271	242	258
PILRA	184	200	190	22	21	8
PILRB	9	2	6	1	4	0
PIM1	815	835	888	592	718	711
PIM2	429	405	428	554	755	438
PIM3	855	1056	916	672	654	537
PIN1	50	46	48	66	54	35
PIN1P1	0	0	0	0	0	0
PIN4	108	91	94	103	131	84
PINK1	82	91	83	76	75	40
PINX1	9	13	7	1	12	5
PIP	0	0	0	0	0	0
PIP4K2A	530	503	497	785	752	691
PIP4K2B	52	54	63	90	77	46
PIP4K2C	80	105	96	34	79	89
PIP5K1A	98	130	152	239	177	233
PIP5K1B	17	6	7	19	4	40
PIP5K1C	15	16	13	16	4	19
PIP5K1P1	0	0	0	0	0	0
PIP5KL1	0	0	0	6	4	30
PIPOX	0	5	1	6	7	8
PIPSL	0	8	3	22	7	3
PIR	45	31	41	6	0	0
PIRT	0	0	0	0	0	0
PISD	47	43	55	37	27	35
PITHD1	101	129	115	234	212	210
PITPNA	259	244	202	224	263	251
PITPNB	220	217	229	184	193	182
PITPNC1	100	107	132	298	245	264
PITPNM1	19	9	21	4	7	0
PITPNM2	10	6	13	4	0	3
PITPNM3	4	0	5	34	7	24
PITRM1	31	39	32	48	46	35
PITX1	0	0	0	0	0	0
PITX2	0	1	0	0	0	0
PITX3	0	0	0	0	0	0
PIWIL1	1	2	0	1	2	19
PIWIL2	1	4	2	63	49	66
PIWIL3	1	0	0	0	0	0
PIWIL4	13	6	9	4	9	3
PJA1	109	120	128	167	214	173
PJA2	794	780	756	652	709	663
PKD1	6	25	18	22	30	13
PKD1L1	0	1	0	0	4	13
PKD1L2	0	0	0	9	2	8
PKD1L3	0	0	3	1	7	8
PKD1P1	0	0	0	0	0	0
PKD2	28	33	30	53	30	35
PKD2L1	1	0	0	6	0	19
PKD2L2	0	0	0	1	4	8
PKDCC	0	0	0	0	0	0
PKDREJ	0	0	0	0	0	3
PKHD1	4	2	0	51	18	66
PKHD1L1	4	0	1	0	7	0
PKIA	56	61	46	93	97	40
PKIB	1	5	1	0	2	0
PKIG	10	17	8	19	7	13
PKLR	0	0	0	4	0	8
PKMYT1	0	0	0	0	0	0
PKN1	19	24	28	48	35	13
PKN2	250	209	210	288	217	224
PKN3	0	4	0	0	0	3
PKNOX1	66	76	74	63	79	103
PKNOX2	0	0	0	0	0	0
PKP1	0	0	0	0	0	0
PKP2	1	1	0	1	0	0
PKP3	0	0	0	0	0	0
PKP4	37	33	55	66	54	46
PLA1A	0	0	0	0	0	0
PLA2G10	0	0	0	0	0	0
PLA2G12A	34	23	44	31	52	66
PLA2G12B	0	0	0	0	0	3
PLA2G15	17	14	17	4	0	8
PLA2G16	95	100	121	82	62	79
PLA2G18	0	0	0	0	0	0
PLA2G2A	0	0	0	0	0	0

PLA2G2C	0	0	0	0	0	0
PLA2G2D	0	0	0	0	0	0
PLA2G2E	0	0	0	0	0	0
PLA2G2F	0	0	0	0	0	0
PLA2G3	0	0	0	0	0	0
PLA2G4A	28	31	26	0	4	0
PLA2G4B	0	0	0	0	0	0
PLA2G4C	42	37	36	16	18	8
PLA2G4D	0	0	0	0	2	0
PLA2G4E	0	0	0	0	0	0
PLA2G4F	0	0	0	0	0	0
PLA2G5	0	0	0	0	0	0
PLA2G6	6	2	8	4	9	3
PLA2G7	1250	1142	1244	37	69	3
PLA2R1	0	2	2	0	2	8
PLAA	70	73	90	79	62	84
PLAC1	0	0	0	0	0	0
PLAC4	0	0	1	0	0	0
PLAC8	261	264	295	263	292	227
PLAC8L1	0	0	0	0	2	8
PLAC9	0	0	0	0	0	0
PLAG1	21	41	34	63	52	66
PLAGL1	60	76	54	51	54	79
PLAGL2	50	45	52	48	52	94
PLAT	4	5	0	22	27	51
PLAU	59	46	51	0	7	0
PLAUR	387	482	489	112	288	132
PLB1	0	1	0	9	7	35
PLBD1	287	286	229	6	12	0
PLBD2	82	77	67	13	18	0
PLCB1	40	35	59	87	82	56
PLCB2	132	108	103	69	72	35
PLCB3	11	17	7	0	0	0
PLCB4	4	0	3	6	7	24
PLCD1	17	7	12	0	0	0
PLCD3	1	4	0	6	4	35
PLCD4	0	0	0	6	4	8
PLCE1	1	4	5	16	7	24
PLCG1	42	34	36	98	60	56
PLCG2	125	152	124	195	193	220
PLCH1	1	0	0	0	0	0
PLCH2	14	16	14	45	38	51
PLCL1	45	35	34	98	57	61
PLCL2	206	174	159	232	223	224
PLCXD1	31	26	24	43	35	51
PLCXD2	31	34	37	66	82	107
PLCXD3	10	7	9	48	49	103
PLCZ1	1	0	1	0	0	0
PLD1	20	20	30	37	18	24
PLD2	2	7	9	0	0	0
PLD3	144	177	162	48	60	19
PLD4	4	0	1	0	0	0
PLD5	11	6	1	25	43	40
PLD6	22	8	11	34	21	19
PLEC	48	55	53	16	35	8
PLEK	644	651	529	288	369	308
PLEK2	0	0	0	0	0	0
PLEKHA1	435	497	525	716	704	663
PLEKHA2	444	391	369	461	481	560
PLEKHA3	181	165	164	217	203	199
PLEKHA4	4	6	11	6	12	19
PLEKHA5	70	70	74	112	162	220
PLEKHA6	0	0	0	6	9	13
PLEKHA7	13	11	14	1	2	40
PLEKHA8	32	39	39	22	12	13
PLEKHA8P1	12	11	13	4	15	3
PLEKHB1	11	16	23	34	21	3
PLEKHB2	263	276	241	139	179	128
PLEKHD1	0	0	0	13	0	0
PLEKHF1	40	35	53	84	54	46
PLEKHF2	152	121	129	93	133	173
PLEKHG1	51	34	45	74	82	75
PLEKHG2	19	25	29	31	30	13
PLEKHG3	89	105	80	6	18	3
PLEKHG4	21	33	14	56	46	46
PLEKHG4B	0	0	0	0	0	0
PLEKHG5	1	1	2	1	0	8
PLEKHG6	0	0	0	0	0	0
PLEKHG7	7	4	6	13	2	8
PLEKHH1	0	0	0	0	0	0
PLEKHH2	4	1	1	0	2	0
PLEKHH3	0	0	1	9	2	24
PLEKHJ1	44	50	44	48	67	40
PLEKHM1	41	52	45	28	24	19
PLEKHM2	146	178	193	87	95	158
PLEKHM3	59	81	69	45	65	61
PLEKHN1	5	1	2	0	0	0
PLEKHO1	807	941	980	213	270	220
PLEKHO2	129	144	120	13	30	8
PLG	0	0	0	1	2	3
PLGLA	0	0	0	0	0	0
PLGLB1	0	0	0	0	0	0
PLGLB2	0	0	0	0	0	0
PLIN1	0	4	2	0	0	0
PLIN2	177	147	155	76	95	46
PLIN3	126	143	140	60	100	79
PLIN4	0	0	0	0	0	0
PLIN5	1	0	2	0	0	0
PLK1	4	1	5	0	12	8
PLK2	11	4	5	0	0	0
PLK3	48	58	51	25	33	40
PLK4	6	4	3	0	4	0
PLK5	0	0	0	0	0	0

PLL	1	5	3	9	12	0
PLN	0	0	0	0	0	0
PLOD1	25	30	14	0	0	0
PLOD2	0	1	0	4	0	8
PLOD3	39	68	58	22	15	8
PLP1	0	0	0	0	0	0
PLP2	244	277	301	219	292	245
PLRG1	145	139	137	281	274	308
PLS1	17	17	8	45	35	136
PLS3	0	2	2	0	0	0
PLSCR1	371	384	340	119	117	103
PLSCR2	0	0	0	6	7	0
PLSCR4	1	0	2	1	0	0
PLSCR5	2	0	0	0	0	0
PLTP	0	0	0	0	0	0
PLVAP	0	0	0	0	0	13
PLXDC1	13	14	6	43	27	35
PLXDC2	484	456	462	6	21	30
PLXNA1	76	63	67	19	24	3
PLXNA2	25	16	23	53	43	61
PLXNA3	24	17	18	16	9	8
PLXNA4	22	23	23	43	46	46
PLXNB1	0	0	0	0	0	0
PLXNB2	37	52	55	0	4	0
PLXNB3	0	0	0	0	0	0
PLXNC1	409	428	494	132	135	107
PLXND1	111	125	155	79	60	51
PM20D1	0	0	0	0	0	0
PM20D2	121	106	98	375	281	478
PMAIP1	299	281	229	349	359	415
PMCH	0	0	0	0	0	0
PMCHL1	0	0	0	1	4	8
PMCHL2	12	16	12	66	72	98
PMEL	0	0	0	0	0	0
PMEPA1	72	74	105	175	185	199
PMF1	34	41	37	9	9	19
PMF1-BGLAP	0	0	0	0	0	0
PMFBP1	7	14	12	0	0	0
PML	92	82	106	87	100	71
PMM1	17	39	29	16	46	51
PMM2	55	63	67	74	60	51
PMP2	0	0	0	0	0	0
PMP22	137	128	141	1	9	3
PMPCA	36	45	41	60	46	13
PMPCB	189	182	179	280	302	251
PMS1	88	84	72	103	90	103
PMS2	12	15	12	19	18	8
PMS2CL	4	4	2	4	0	8
PMS2P1	5	2	2	0	4	0
PMS2P3	2	5	2	0	12	13
PMS2P4	0	0	0	0	0	0
PMS2P5	0	0	0	0	0	0
PMVK	26	35	30	25	21	13
PNCK	0	0	0	0	0	3
PNISR	2905	2738	3147	2445	2128	2303
PNKD	60	74	57	45	49	19
PNKP	34	46	31	48	43	35
PNLDC1	0	0	0	0	2	3
PNLIP	0	0	0	25	4	40
PNLI PRP1	0	0	0	0	2	3
PNLI PRP2	0	0	0	0	0	0
PNLI PRP3	0	0	0	0	0	0
PNMA1	87	67	63	90	95	71
PNMA2	0	0	0	0	0	0
PNMA3	0	2	3	0	0	0
PNMA5	0	1	2	0	0	0
PNMAGA	0	2	0	0	0	0
PNMT	0	0	0	0	0	0
PNN	730	641	827	995	857	1007
PNO1	58	54	63	69	41	84
PNOC	17	13	9	13	21	8
PNP	68	69	60	74	43	51
PNPLA1	0	1	0	0	0	0
PNPLA2	84	86	88	69	57	13
PNPLA3	0	0	1	16	12	19
PNPLA4	13	22	9	13	15	30
PNPLA5	0	0	0	0	0	0
PNPLA6	22	14	21	19	9	0
PNPLA7	5	8	3	1	2	0
PNPLA8	272	237	213	169	162	128
PNPO	38	38	20	6	18	8
PNPT1	44	43	37	98	38	79
PNRC1	1579	1535	1499	926	1284	802
PNRC2	227	222	228	187	251	230
POC1A	9	5	1	0	0	0
POC1B	148	161	127	169	206	182
POC1B-GALNT4	0	0	0	0	0	0
POC5	25	33	30	56	21	51
PODN	0	1	0	0	0	0
PODNL1	0	0	0	0	0	8
PODXL	4	2	8	0	0	0
PODXL2	0	0	0	0	0	0
POF1B	0	0	0	0	2	0
POFUT1	36	39	48	28	24	13
POFUT2	61	43	55	69	69	46
POGK	127	97	113	117	72	139
POGLUT1	163	141	127	184	181	151
POGZ	289	255	311	294	285	267
POLA1	49	55	54	56	65	30
POLA2	21	14	22	0	15	0
POLB	103	109	94	63	52	46
POLD1	13	16	7	13	12	13
POLD2	17	26	14	16	30	19

POLD3	104	87	120	93	67	89
POLD4	21	34	45	6	30	0
POLDIP2	54	37	40	56	69	56
POLDIP3	130	109	122	117	140	112
POLE	22	30	34	28	38	56
POLE2	5	8	7	6	0	19
POLE3	405	490	422	659	661	595
POLE4	67	66	50	40	18	0
POLG	102	117	111	110	69	94
POLG2	85	94	119	167	127	210
POLH	10	11	5	4	9	3
POLI	55	38	37	60	46	46
POLK	171	166	157	193	193	220
POLL	28	26	30	48	24	8
POLM	21	28	23	25	30	30
POLN	7	7	3	87	62	154
POLQ	1	5	0	0	0	0
POLR1A	20	29	34	28	27	19
POLR1B	66	46	54	103	82	121
POLR1C	23	26	17	56	92	66
POLR1D	206	220	222	377	362	379
POLR1E	25	23	18	34	43	35
POLR2A	398	432	399	298	319	207
POLR2B	541	577	569	732	746	687
POLR2C	103	95	100	117	111	121
POLR2D	70	69	67	93	129	94
POLR2E	512	635	663	313	385	192
POLR2F	60	66	48	74	35	66
POLR2G	119	135	113	82	147	56
POLR2H	67	87	77	79	95	56
POLR2I	34	38	23	22	35	0
POLR2J	55	69	59	45	52	19
POLR2J2	0	0	0	0	0	8
POLR2J3	1	1	5	1	0	0
POLR2J4	1	1	0	9	5	16
POLR2K	185	159	134	145	189	162
POLR2L	102	111	111	69	52	51
POLR2M	108	124	96	182	162	227
POLR3A	42	34	28	63	79	46
POLR3B	21	20	17	9	27	30
POLR3C	17	23	24	9	7	8
POLR3D	107	91	89	95	97	94
POLR3E	67	48	51	151	100	107
POLR3F	24	14	14	22	24	3
POLR3G	9	7	13	25	12	40
POLR3GL	255	307	314	298	328	216
POLR3H	25	14	9	1	12	0
POLR3K	52	45	40	22	57	24
POLRMT	9	9	9	4	7	30
POM121	22	24	9	9	12	35
POM121C	59	56	65	117	100	79
POM121L10P	0	0	0	0	0	0
POM121L12	0	0	0	0	0	0
POM121L1P	0	0	0	0	0	0
POM121L2	0	0	0	0	0	0
POM121L4P	0	0	0	0	0	0
POM121L8P	0	0	0	0	0	0
POM121L9P	0	0	0	6	0	13
POMC	6	7	11	1	18	13
POMGNT1	14	12	15	9	18	0
POMP	838	786	725	504	595	503
POMT1	7	15	23	6	2	0
POMT2	17	42	25	25	12	0
POMZP3	1	0	0	0	0	0
PON1	0	0	0	1	0	0
PON2	15	17	22	4	4	3
PON3	1	0	0	0	2	0
POP1	49	38	29	34	9	24
POP4	111	104	119	66	67	56
POP5	29	23	43	9	21	0
POP7	97	105	113	119	84	132
POPDC2	1	1	5	25	4	0
POPDC3	0	0	0	0	0	0
POR	42	67	75	56	62	84
PORCN	13	12	9	6	0	0
POSTN	2	2	0	6	0	8
POT1	46	38	24	51	65	66
POTEA	0	0	0	1	2	0
POTEB	0	0	0	0	0	0
POTEC	0	0	0	0	2	8
POTED	0	0	0	0	0	0
POTEE	0	0	0	0	0	0
POTEF	0	0	0	0	0	0
POTEG	0	0	0	0	0	0
POTEH	0	0	0	0	0	0
POTEKP	0	0	0	1	0	0
POTEM	0	0	0	0	0	0
POU1F1	0	0	0	0	0	0
POU2AF1	36	41	37	72	30	84
POU2F1	193	182	207	187	153	220
POU2F2	294	324	397	703	601	704
POU2F3	0	0	0	0	0	0
POU3F1	4	1	11	6	4	13
POU3F2	4	0	0	9	7	13
POU3F3	0	0	0	0	0	0
POU3F4	0	0	0	0	15	3
POU4F1	2	2	0	4	0	3
POU4F2	0	0	0	0	0	0
POU4F3	0	0	0	0	0	0
POU5F1	1	0	0	1	0	0
POU5F1B	0	0	0	0	0	0
POU5F1P3	0	0	0	0	0	0
POU5F1P4	0	0	0	0	0	0

POU5F2	2	1	5	0	4	3
POU6F1	7	9	9	16	24	19
POU6F2	0	2	0	0	2	8
PP2D1	0	0	1	0	0	0
PPA1	114	153	112	159	135	165
PPA2	158	152	152	139	135	169
PPAN	5	9	16	0	7	3
PPAN-P2RY11	0	0	0	0	0	0
PPARA	98	93	96	76	72	40
PPARD	35	40	26	51	60	89
PPARG	4	2	0	0	0	8
PPARGC1A	0	0	2	6	2	3
PPARGC1B	80	83	75	13	7	0
PPAT	55	65	68	76	79	132
PPBP	94	111	90	180	223	251
PPCDC	9	2	8	0	2	3
PPCS	353	393	350	274	319	203
PPDPF	169	206	203	232	261	207
PPEF1	0	0	0	1	0	0
PPEF2	0	0	0	0	4	8
PPFIA1	224	243	254	203	162	245
PPFIA2	4	0	8	4	18	40
PPFIA3	0	0	0	0	0	0
PPFIA4	9	13	18	16	0	3
PPFIBP1	13	9	14	13	15	30
PPFIBP2	23	17	21	16	2	13
PPHLN1	440	405	399	481	513	586
PPIA	111	125	96	213	193	237
PPIAL4A	0	0	0	0	0	0
PPIAL4C	0	0	0	0	0	0
PPIAL4D	0	0	0	0	0	0
PPIAL4E	0	0	0	0	0	0
PPIAL4F	0	0	0	0	0	0
PPIAL4G	0	0	0	0	0	0
PPIB	136	173	137	129	155	94
PPIC	0	0	0	0	0	0
PPID	204	177	128	163	199	162
PPIE	45	50	35	53	67	103
PPIEL	6	1	0	13	7	3
PPIF	187	192	159	87	79	35
PPIG	1372	1331	1358	1310	1329	1458
PPIH	40	38	47	56	65	35
PPIL1	44	29	35	28	33	46
PPIL2	117	127	106	103	97	98
PPIL3	74	83	98	87	103	84
PPIL4	338	273	293	448	392	586
PPIL6	0	0	0	0	2	8
PPIP5K1	0	7	9	4	2	0
PPIP5K2	351	330	293	234	259	192
PPL	0	0	0	0	2	0
PPM1A	198	154	162	226	234	220
PPM1B	203	210	207	358	380	297
PPM1D	99	81	97	76	77	98
PPM1E	0	0	0	0	0	3
PPM1F	90	87	85	25	12	30
PPM1G	269	287	299	331	340	291
PPM1H	1	2	1	0	2	0
PPM1J	1	0	0	0	0	0
PPM1K	241	230	172	281	283	233
PPM1L	34	33	44	22	24	13
PPM1M	38	45	48	13	18	3
PPM1N	4	12	13	4	9	0
PPME1	58	58	63	100	111	89
PPQX	18	21	12	9	7	3
PPP1CA	132	137	151	76	113	79
PPP1CB	669	540	570	487	572	438
PPP1CC	555	546	527	432	496	425
PPP1R10	162	175	173	968	742	997
PPP1R11	106	98	96	112	95	66
PPP1R12A	1136	994	1085	1043	1070	966
PPP1R12B	115	111	155	151	117	158
PPP1R12C	190	184	193	203	162	213
PPP1R13B	15	17	15	6	9	8
PPP1R13L	7	9	8	0	0	19
PPP1R14A	6	7	5	6	4	0
PPP1R14B	77	62	97	79	69	71
PPP1R14C	1	2	0	0	0	0
PPP1R14D	0	0	0	0	0	0
PPP1R15A	234	258	273	245	276	359
PPP1R15B	328	355	323	243	292	271
PPP1R16A	6	7	5	1	0	0
PPP1R16B	122	128	145	298	332	444
PPP1R17	0	0	0	0	0	0
PPP1R18	434	560	473	476	456	518
PPP1R1A	0	0	0	0	0	0
PPP1R1B	0	0	0	0	0	0
PPP1R1C	0	0	0	0	0	0
PPP1R2	297	276	238	424	348	379
PPP1R21	92	84	71	66	62	75
PPP1R26	14	5	0	0	0	0
PPP1R27	0	0	0	0	0	0
PPP1R32	0	0	1	9	2	3
PPP1R35	47	52	67	93	113	103
PPP1R36	0	0	0	0	0	3
PPP1R37	2	4	14	13	9	19
PPP1R3A	0	0	0	0	0	0
PPP1R3B	40	28	34	51	52	89
PPP1R3C	1	0	1	0	0	3
PPP1R3D	66	66	60	60	84	61
PPP1R3E	35	61	68	98	100	128
PPP1R3F	21	17	26	147	92	196
PPP1R3G	0	1	0	0	0	0
PPP1R42	0	0	0	0	0	0

PPP1R7	97	111	105	151	124	124
PPP1R8	139	141	154	175	240	188
PPP1R9A	4	4	6	1	2	8
PPP1R9B	236	249	304	180	195	98
PPP2CA	351	359	312	489	471	505
PPP2CB	207	229	245	179	185	196
PPP2R1A	64	37	50	51	60	51
PPP2R1B	48	52	53	60	49	56
PPP2R2A	355	378	353	329	419	321
PPP2R2B	60	63	51	58	65	40
PPP2R2C	0	0	0	0	0	0
PPP2R2D	129	120	113	195	113	224
PPP2R3A	9	11	6	0	9	30
PPP2R3B	12	15	41	79	65	40
PPP2R3C	121	100	135	119	117	79
PPP2R5A	400	402	390	495	547	486
PPP2R5B	14	11	24	6	24	0
PPP2R5C	1158	1226	1403	1669	1741	1710
PPP2R5D	94	93	98	79	92	107
PPP2R5E	584	546	601	743	709	626
PPP3CA	1096	1091	1080	940	960	829
PPP3CB	206	208	206	243	212	237
PPP3CC	134	125	117	206	183	176
PPP3R1	261	288	305	347	336	444
PPP3R2	4	0	2	1	7	0
PPP4C	123	86	94	87	65	79
PPP4R1	88	117	104	84	62	19
PPP4R1L	22	25	36	22	30	30
PPP4R2	356	308	334	377	357	297
PPP4R4	4	1	3	6	12	0
PPP5C	13	17	18	9	2	0
PPP6C	294	347	358	427	520	511
PPP6R1	15	16	12	28	15	13
PPP6R2	70	78	89	134	111	107
PPP6R3	235	243	233	313	277	312
PPRC1	30	32	40	79	54	89
PPT1	442	520	511	95	108	61
PPT2	6	2	3	4	0	0
PPT2-EGFL8	0	0	0	0	0	0
PPTC7	371	364	356	409	359	425
PPWD1	150	143	149	294	210	203
PPV	0	0	0	0	0	0
PQBP1	46	52	53	25	60	40
PQLC1	65	65	60	13	41	24
PQLC2	2	4	5	0	0	3
PQLC3	218	208	220	72	79	24
PRADC1	11	8	8	0	2	3
PRAF2	52	69	63	93	79	75
PRAM1	41	26	32	0	2	8
PRAME	0	0	1	0	0	0
PRAMEF1	0	0	0	0	0	3
PRAMEF10	0	0	0	0	0	0
PRAMEF11	0	0	0	0	0	0
PRAMEF12	0	0	0	0	0	3
PRAMEF13	0	0	0	0	0	0
PRAMEF14	0	0	0	0	0	0
PRAMEF15	0	0	0	0	0	0
PRAMEF17	0	0	0	0	0	0
PRAMEF18	0	0	0	0	0	0
PRAMEF19	0	0	0	0	0	0
PRAMEF2	0	0	0	0	0	0
PRAMEF20	0	0	0	0	0	0
PRAMEF4	0	0	0	0	0	0
PRAMEF5	0	0	0	0	0	0
PRAMEF6	0	0	0	0	0	0
PRAMEF7	0	0	0	0	0	0
PRAMEF8	0	0	0	0	0	0
PRAMEF9	0	0	0	0	0	0
PRAP1	0	0	0	0	0	0
PRB1	0	0	0	0	0	0
PRB2	0	0	0	0	0	0
PRB3	0	0	0	0	0	0
PRB4	0	0	0	0	0	0
PRC1	10	1	2	16	2	19
PRCC	48	61	53	87	67	56
PRCD	0	0	0	0	0	0
PRCP	349	355	297	95	115	71
PRDM1	455	380	426	285	274	345
PRDM10	35	40	50	93	79	98
PRDM11	18	7	23	9	9	24
PRDM12	0	0	0	0	0	0
PRDM13	0	0	0	0	0	0
PRDM14	0	0	0	0	0	0
PRDM15	9	21	32	37	15	46
PRDM16	0	0	0	1	0	0
PRDM2	367	347	429	659	535	704
PRDM4	69	55	66	98	67	66
PRDM5	0	0	2	1	0	8
PRDM6	0	1	1	0	0	3
PRDM7	0	1	0	0	0	0
PRDM8	56	43	53	69	87	107
PRDM9	0	0	0	9	18	46
PRDX1	917	912	985	201	242	151
PRDX2	25	12	29	34	43	3
PRDX3	338	337	316	103	122	46
PRDX4	36	40	24	4	12	8
PRDX5	64	80	60	79	67	61
PRDX6	173	191	169	175	183	165
PREB	119	106	99	129	142	117
PRELID1	147	155	146	60	84	40
PRELID2	2	5	5	6	9	30
PRELP	0	0	0	1	2	8
PREP	143	143	148	134	120	98

PREPL	173	190	159	293	276	237
PREX1	887	850	813	975	979	917
PREX2	0	1	0	1	0	0
PRF1	127	150	163	93	142	56
PRG2	0	0	0	0	0	0
PRG3	0	0	0	0	0	0
PRG4	2	2	0	0	0	3
PRH1	19	26	46	66	41	71
PRH2	0	0	0	0	0	0
PRICKLE1	12	13	7	43	35	24
PRICKLE2	0	0	0	0	0	0
PRICKLE3	2	0	0	0	0	0
PRICKLE4	0	0	0	0	0	0
PRIM1	31	34	16	76	79	94
PRIM2	14	16	13	25	21	19
PRIMA1	0	0	0	0	0	0
PRKAA1	205	208	222	271	259	254
PRKAA2	18	17	17	100	113	210
PRKAB1	64	54	63	34	67	71
PRKAB2	88	76	116	66	65	46
PRKACA	155	175	173	82	65	30
PRKACB	403	381	346	459	527	340
PRKACG	0	0	0	0	0	0
PRKAG1	97	143	130	175	151	224
PRKAG2	185	181	204	147	124	147
PRKAG3	0	0	0	0	0	0
PRKAR1A	1694	1751	1585	1388	1463	1110
PRKAR1B	4	2	5	16	7	8
PRKAR2A	456	480	408	307	365	282
PRKAR2B	56	49	39	40	38	61
PRKCA	106	109	140	201	181	207
PRKCB	775	794	734	659	601	554
PRKCD	415	441	572	108	106	84
PRKCE	35	32	57	45	35	13
PRKCG	0	0	0	0	0	0
PRKCH	367	349	420	857	767	859
PRKCI	126	108	113	79	106	84
PRKCQ	85	92	140	184	197	165
PRKCSH	36	37	44	58	82	35
PRKCZ	5	8	8	6	2	0
PRKD1	2	2	0	0	0	0
PRKD2	39	46	60	72	79	66
PRKD3	266	255	273	300	340	282
PRKDC	316	265	283	331	259	275
PRKG1	10	6	3	72	46	112
PRKG2	10	15	6	28	21	30
PRKRA	84	79	87	51	41	40
PRKRIP1	72	79	74	106	124	124
PRKX	374	344	369	489	525	397
PRKY	207	261	348	266	268	258
PRL	0	0	0	0	0	0
PRLH	0	0	0	0	0	0
PRLHR	0	0	0	1	4	0
PRLR	0	2	9	0	0	8
PRM1	0	0	0	0	0	0
PRM2	0	0	0	0	0	0
PRM3	0	0	0	0	0	0
PRMT1	87	109	126	129	162	139
PRMT2	641	663	778	758	669	806
PRMT3	31	39	28	25	30	51
PRMT5	46	54	48	56	60	8
PRMT6	40	42	35	58	52	51
PRMT7	29	41	39	66	72	79
PRMT8	0	0	0	0	0	0
PRND	0	0	0	0	0	0
PRNP	227	241	218	182	193	147
PRNT	0	0	0	0	0	0
PROC	0	0	0	0	0	0
PROCA1	6	14	3	19	0	8
PROCR	30	32	42	1	9	0
PRODH	0	0	0	0	0	0
PRODH2	0	0	0	0	7	8
PROK1	0	0	0	0	2	0
PROK2	12	8	21	19	27	3
PROKR1	0	0	0	6	0	0
PROKR2	0	0	0	0	0	0
PROM1	0	1	0	0	0	0
PROM2	0	0	0	0	0	0
PROPI	0	0	0	0	0	0
PRORS1P	21	13	11	13	7	3
PROS1	2	4	0	1	0	3
PROSER1	67	74	82	103	97	128
PROX1	2	6	2	28	30	71
PROX1-AS1	0	0	0	0	0	0
PROX2	1	0	0	0	0	0
PROZ	0	0	0	0	0	0
PRPF18	188	181	186	263	257	279
PRPF19	97	121	137	149	174	196
PRPF3	72	76	95	87	106	79
PRPF31	29	52	47	66	57	51
PRPF38A	280	272	297	335	370	285
PRPF38B	1636	1458	1658	1710	1793	1663
PRPF39	217	167	198	217	191	258
PRPF4	56	42	46	90	90	117
PRPF40A	1495	1410	1495	1558	1379	1620
PRPF40B	7	7	6	9	7	0
PRPF4B	913	759	926	880	713	786
PRPF6	306	367	353	424	458	467
PRPF8	165	217	222	290	304	294
PRPH	0	0	0	0	0	0
PRPH2	0	0	0	1	0	0
PRPS1	121	143	115	180	199	136
PRPS1L1	0	0	0	0	0	0

PRPS2	88	73	84	37	35	19
PRPSAP1	78	73	84	84	67	84
PRPSAP2	94	91	72	95	100	71
PRR11	31	31	35	19	15	66
PRR12	12	20	29	13	24	3
PRR13	303	307	261	276	272	203
PRR14	51	31	59	40	54	24
PRR14L	294	244	283	237	232	267
PRR15	0	0	0	0	0	0
PRR15L	0	0	0	0	0	0
PRR16	1	0	0	1	0	0
PRR18	0	0	0	0	7	0
PRR19	0	0	0	0	0	3
PRR20A	0	0	0	0	0	0
PRR20B	0	0	0	0	0	0
PRR20C	0	0	0	0	0	0
PRR20D	0	0	0	0	0	0
PRR20E	0	0	0	0	0	0
PRR22	0	0	0	0	0	0
PRR23A	0	0	0	0	0	0
PRR23B	0	0	0	0	0	0
PRR23C	0	0	0	0	0	0
PRR3	20	34	23	25	30	0
PRR4	2	0	0	0	4	3
PRR5	2	4	5	6	2	0
PRR5-ARHGAP8	0	0	0	0	0	0
PRR5L	129	128	142	288	319	308
PRR7	10	6	3	34	7	35
PRR9	0	0	0	0	0	0
PRRC1	395	342	317	309	276	275
PRRC2A	25	37	51	37	54	40
PRRC2B	308	289	343	522	503	529
PRRC2C	2067	1932	2290	2551	2224	2634
PRRG1	7	13	8	0	0	0
PRRG2	0	0	1	0	0	0
PRRG3	0	0	0	0	0	0
PRRG4	69	67	47	4	4	8
PRRT1	2	2	3	1	0	8
PRRT2	6	17	16	63	30	61
PRRT3	4	0	2	0	7	8
PRRT4	0	1	0	0	0	0
PRRX1	1	1	0	1	0	8
PRRX2	0	0	0	0	0	0
PRSS1	0	0	0	0	0	0
PRSS12	0	0	0	0	2	8
PRSS16	0	0	0	0	0	0
PRSS2	0	0	0	0	0	0
PRSS21	0	1	0	0	0	0
PRSS22	2	2	2	0	0	0
PRSS23	77	87	58	51	52	19
PRSS27	0	0	0	1	0	0
PRSS3	0	0	0	0	0	0
PRSS30P	4	4	5	1	12	0
PRSS33	0	0	0	0	0	0
PRSS35	0	0	0	0	2	3
PRSS36	1	1	2	0	0	0
PRSS37	0	0	0	0	0	0
PRSS38	0	0	0	0	2	3
PRSS41	0	0	0	0	0	3
PRSS42	0	0	0	0	0	3
PRSS45	0	0	0	0	0	0
PRSS48	0	0	0	0	0	0
PRSS50	0	0	0	0	0	0
PRSS53	1	1	0	0	0	0
PRSS54	0	0	0	0	0	0
PRSS55	0	0	0	0	0	0
PRSS56	0	0	0	0	0	0
PRSS57	0	0	0	0	0	0
PRSS58	0	0	0	0	0	0
PRSS8	0	0	0	0	0	0
PRTFDC1	0	0	0	1	0	0
PRTG	7	4	5	4	7	30
PRTN3	0	0	0	0	0	0
PRUNE2	6	14	11	58	75	89
PRX	1	0	0	1	2	0
PRY	0	0	0	0	0	0
PRY2	0	0	0	0	0	0
PSAP	4286	4674	4196	859	937	824
PSAPL1	0	0	0	0	0	0
PSAT1	9	15	8	45	52	56
PSCA	0	0	0	0	0	0
PSD	0	0	1	1	0	0
PSD2	0	0	0	28	7	56
PSD3	36	40	32	123	108	165
PSD4	125	120	145	132	197	117
PSEN1	201	210	204	114	127	103
PSEN2	23	26	20	0	0	0
PSENEEN	41	42	32	43	43	19
PSG1	0	0	0	0	0	0
PSG10P	0	0	0	0	0	0
PSG11	0	0	0	0	0	0
PSG2	0	0	0	0	2	0
PSG3	0	0	0	0	0	0
PSG4	0	0	0	0	0	0
PSG5	0	0	0	0	0	0
PSG6	0	0	0	0	0	0
PSG7	0	0	0	0	0	0
PSG8	0	0	0	0	0	0
PSG9	0	0	0	0	0	0
PSIP1	945	817	876	730	813	534
PSKH1	58	52	51	19	52	51
PSKH2	0	0	0	0	0	0
PSMA1	426	414	447	369	426	329

PSMA2	150	129	206	167	177	192
PSMA3	474	470	435	380	387	428
PSMA4	677	606	586	366	369	428
PSMA5	167	172	233	217	245	207
PSMA6	34	20	25	34	27	51
PSMA7	851	824	763	687	667	778
PSMA8	2	0	5	0	12	13
PSMB1	625	644	625	573	637	472
PSMB10	18	20	14	0	9	0
PSMB11	0	0	0	0	0	0
PSMB2	186	228	222	169	191	169
PSMB3	129	147	164	93	103	61
PSMB4	369	375	329	404	463	388
PSMB5	74	79	91	127	106	107
PSMB6	208	227	241	110	191	94
PSMB7	100	80	85	103	67	84
PSMB8	438	471	462	358	422	376
PSMB9	572	635	564	268	402	267
PSMC1	15	25	30	31	30	40
PSMC2	289	241	217	323	276	348
PSMC3	75	57	59	51	49	35
PSMC3IP	2	6	5	9	0	24
PSMC4	85	79	60	95	60	79
PSMC5	173	184	183	159	151	112
PSMC6	197	190	186	201	212	210
PSMD1	587	594	570	472	478	579
PSMD10	87	80	71	141	122	103
PSMD11	227	296	237	290	274	297
PSMD12	200	195	210	254	292	321
PSMD13	243	229	214	261	252	291
PSMD14	169	174	147	82	92	128
PSMD2	218	223	266	243	223	216
PSMD3	202	269	316	209	265	258
PSMD4	329	411	499	515	506	397
PSMD5	64	70	71	209	179	345
PSMD6	152	133	155	197	168	196
PSMD7	395	405	414	362	323	447
PSMD8	224	233	224	141	153	124
PSMD9	69	88	97	60	92	75
PSME1	809	828	815	534	682	543
PSME2	504	566	692	211	263	233
PSME3	102	88	105	69	87	84
PSME4	266	249	290	268	323	279
PSMF1	161	158	181	171	206	176
PSMG1	101	128	107	58	72	30
PSMG2	159	142	120	167	174	165
PSMG3	99	124	80	106	127	117
PSMG4	66	54	77	121	127	84
PSORS1C1	0	0	0	0	0	0
PSORS1C2	0	0	0	0	0	0
PSORS1C3	0	0	0	0	0	0
PSPC1	125	118	117	228	242	258
PSPH	7	7	8	110	60	176
PSPN	6	9	7	40	15	3
PSRC1	0	0	0	0	0	0
PSTK	7	0	0	1	4	13
PSTPIP1	31	29	28	9	27	13
PSTPIP2	577	586	628	79	82	89
PTAFR	462	524	474	45	54	35
PTAR1	224	234	219	201	174	227
PTBP1	407	418	430	517	483	478
PTBP2	52	61	52	98	106	94
PTBP3	1281	1275	1299	876	912	740
PTCD1	12	20	29	74	38	66
PTCD2	45	42	35	82	65	117
PTCD3	209	222	297	456	402	493
PTCH1	46	32	44	28	52	61
PTCH2	1	0	0	0	2	0
PTCHD1	0	0	0	6	9	51
PTCHD3	0	0	0	0	0	0
PTCHD4	0	0	0	0	0	0
PTCRA	0	1	0	0	0	0
PTDSS1	195	198	193	276	230	285
PTDSS2	5	5	8	6	9	8
PTEN	321	319	292	420	370	405
PTENP1	17	20	14	37	24	66
PTER	134	120	122	145	181	147
PTF1A	0	0	0	0	0	0
PTGDR	72	62	63	66	62	30
PTGDR2	2	2	0	0	0	0
PTGDS	0	0	0	1	0	0
PTGER1	0	0	0	0	0	0
PTGER2	212	169	171	74	82	51
PTGER3	12	8	0	58	12	117
PTGER4	333	310	339	349	387	438
PTGES	0	0	0	0	0	0
PTGES2	47	45	58	9	7	0
PTGES3	931	944	874	828	906	841
PTGFR	21	11	15	93	75	151
PTGFRN	24	25	17	0	0	0
PTGIR	24	25	26	1	9	0
PTGIS	0	0	0	0	0	0
PTGR1	22	17	29	6	2	0
PTGR2	11	14	7	4	9	0
PTGS1	40	38	37	9	0	8
PTGS2	76	87	72	51	106	8
PTH	0	0	0	0	0	0
PTH1R	0	0	1	1	2	3
PTH2	0	0	0	0	0	0
PTH2R	1	2	0	0	2	0
PTH1LH	0	0	0	0	0	0
PTK2	12	16	12	31	46	30
PTK2B	100	125	141	163	142	107

PTK6	5	0	0	1	4	0
PTK7	1	4	1	0	2	3
PTMA	3380	3192	2967	2486	2680	2138
PTMS	63	69	91	40	35	24
PTN	0	0	0	0	0	0
PTOV1	20	23	25	31	24	24
PTP4A1	0	0	0	0	0	0
PTP4A2	1710	1694	1644	1509	1706	1537
PTP4A3	5	4	3	4	0	3
PTPDC1	17	8	12	1	4	8
PTPMT1	61	43	67	37	35	19
PTPN1	1125	1146	1166	1048	1253	1338
PTPN11	263	200	194	203	254	258
PTPN12	418	442	395	145	168	147
PTPN13	15	13	8	53	43	51
PTPN14	2	7	1	22	24	61
PTPN18	116	142	182	60	69	46
PTPN2	350	297	272	209	206	203
PTPN21	0	0	1	0	0	0
PTPN22	160	181	175	190	153	165
PTPN23	47	43	43	31	49	3
PTPN3	1	0	0	0	0	0
PTPN4	234	199	237	234	236	254
PTPN5	0	0	0	0	0	0
PTPN6	122	118	147	74	84	35
PTPN7	59	78	68	82	87	56
PTPN9	51	50	40	28	27	35
PTPRA	240	245	209	180	219	154
PTPRB	4	1	0	19	4	0
PTPRC	4841	4841	4538	3850	3679	3427
PTPRCAP	0	0	0	0	0	0
PTPRD	0	2	1	13	4	35
PTPRE	855	734	830	252	314	291
PTPRF	2	0	0	9	0	3
PTPRG	2	1	0	0	7	3
PTPRH	0	0	0	16	18	51
PTPRJ	402	444	378	448	466	393
PTPRK	9	7	2	13	9	35
PTPRM	31	20	26	95	87	121
PTPRN	0	0	0	0	0	0
PTPRN2	13	5	3	6	7	8
PTPRO	40	39	39	31	33	24
PTPRQ	4	2	5	13	4	24
PTPRR	0	0	2	0	0	0
PTPRS	0	0	1	0	0	0
PTPRT	0	1	1	0	0	0
PTPRU	0	0	0	0	0	0
PTPRVP	0	0	0	0	0	0
PTPRZ1	0	0	0	0	0	3
PTRH1	11	13	24	4	7	13
PTRH2	20	19	22	6	43	13
PTRHD1	50	66	50	82	65	61
PTS	37	35	41	63	46	13
PTTG1	19	13	35	9	9	0
PTTG1IP	358	380	370	173	187	165
PTTG2	0	0	1	0	0	0
PTTG3P	0	0	0	0	0	0
PTX3	12	7	7	37	21	94
PTX4	0	0	0	0	0	0
PUF60	110	135	141	190	172	147
PUM1	653	607	662	665	636	717
PUM2	482	476	511	646	663	668
PURA	504	508	521	695	656	695
PURB	222	205	221	329	281	422
PURG	0	0	0	0	0	0
PUS1	18	28	15	37	18	0
PUS10	26	23	29	22	7	24
PUS3	83	66	63	110	90	112
PUS7	31	35	32	16	43	19
PUS7L	263	234	243	203	179	136
PUSL1	1	4	3	4	0	0
PVALB	0	0	0	0	0	0
PVR	41	33	31	0	0	0
PVRIG	5	0	3	0	0	0
PVT1	32	35	72	147	108	162
PWP1	264	249	282	343	343	335
PWP2	0	0	0	0	0	0
PWRN1	0	0	0	0	0	0
PWRN2	4	0	0	1	4	8
PWWP2A	361	375	358	343	444	550
PWWP2B	24	33	34	25	21	0
PXDC1	18	20	8	0	0	0
PXDN	2	0	0	6	2	13
PXDNL	1	0	0	0	2	8
PXK	220	245	264	232	208	196
PXMP2	7	0	3	0	4	0
PXMP4	22	15	17	6	18	0
PXN	291	289	246	360	354	210
PXT1	0	0	0	0	2	3
PYCARD	94	106	79	13	18	0
PYCR1	4	4	3	13	12	8
PYCR2	323	388	362	531	564	463
PYDC1	0	0	0	0	0	0
PYDC2	0	0	0	0	0	0
PYGB	56	55	50	4	18	0
PYGL	130	143	132	16	18	35
PYGM	0	1	0	48	24	24
PYGO1	1	0	1	6	4	3
PYGO2	61	67	60	106	92	79
PYHIN1	267	237	272	213	254	182
PYROXD1	84	83	77	141	162	199
PYROXD2	19	17	23	63	33	51
PYY	0	0	0	0	0	0

PYY2	0	0	0	1	0	0
PZP	0	0	0	0	0	0
QARS	72	66	72	79	108	71
QDPR	83	82	67	40	65	71
QKI	1144	1058	1028	620	628	554
QPCT	160	146	108	4	18	0
QPCTL	1	6	3	0	0	0
QPRT	0	0	1	1	4	19
QRF	0	0	0	0	0	0
QRFPR	0	0	0	0	0	0
QRICH1	85	101	112	125	144	136
QRICH2	1	0	2	1	4	0
QRS1	59	78	59	132	75	94
QSER1	174	131	127	112	77	61
QSOX1	106	126	104	37	57	46
QSOX2	47	45	30	93	67	103
QTRT1	24	30	36	53	41	51
R3HCC1	21	19	23	25	24	35
R3HDM1	155	158	138	248	249	251
R3HDM2	506	530	554	716	641	839
R3HDM4	158	177	215	290	281	267
R3HDML	0	0	0	0	0	0
RAB10	647	591	655	420	438	453
RAB11A	373	430	317	307	302	362
RAB11B	126	142	157	132	108	84
RAB11FIP1	510	393	420	383	357	372
RAB11FIP2	155	154	154	180	153	158
RAB11FIP3	12	15	28	48	15	46
RAB11FIP4	99	93	97	106	113	103
RAB11FIP5	15	21	20	19	24	8
RAB12	233	224	266	239	185	227
RAB13	89	115	93	6	15	3
RAB14	472	521	456	397	478	486
RAB15	4	8	11	0	0	0
RAB17	0	0	0	1	0	0
RAB18	515	448	420	349	330	271
RAB19	0	0	0	0	0	0
RAB1A	808	710	628	430	456	442
RAB1B	50	49	55	53	67	35
RAB20	144	194	149	9	41	3
RAB21	595	581	548	975	869	1113
RAB22A	340	388	379	274	332	254
RAB23	6	1	2	0	0	0
RAB24	24	20	45	19	21	13
RAB25	0	0	0	0	0	0
RAB26	0	0	0	0	0	0
RAB27A	406	388	362	560	598	467
RAB27B	14	23	22	28	12	8
RAB28	119	95	88	117	113	84
RAB2A	746	743	658	552	540	612
RAB2B	69	88	107	117	111	89
RAB30	119	132	121	209	199	196
RAB31	789	748	667	117	158	147
RAB32	69	104	108	4	2	3
RAB33A	19	13	16	16	21	3
RAB33B	59	52	66	40	43	8
RAB34	24	24	20	1	0	0
RAB35	102	95	103	66	84	61
RAB36	0	0	0	0	0	0
RAB37	42	39	39	87	52	46
RAB38	6	8	6	1	0	0
RAB39A	13	15	8	0	0	0
RAB39B	55	35	44	110	124	94
RAB3A	0	1	2	0	0	0
RAB3B	2	0	1	6	2	13
RAB3C	1	0	0	1	0	0
RAB3D	118	104	99	16	12	3
RAB3GAP1	222	193	198	199	245	213
RAB3GAP2	330	301	378	362	383	362
RAB3IL1	0	2	0	0	0	3
RAB3IP	90	82	113	129	153	169
RAB40A	0	0	0	0	0	0
RAB40AL	0	0	0	0	0	0
RAB40B	20	7	6	4	7	3
RAB40C	6	19	24	4	12	0
RAB41	0	0	0	0	0	0
RAB42	4	0	1	0	2	0
RAB43	0	0	1	0	0	0
RAB4A	122	128	113	112	103	112
RAB4B	10	0	2	0	0	3
RAB4B-EGLN2	0	0	0	0	0	0
RAB5A	303	303	321	257	257	282
RAB5B	109	147	136	123	144	154
RAB5C	243	269	283	190	179	179
RAB6A	309	334	358	335	309	241
RAB6B	0	0	0	0	0	0
RAB6C	0	0	0	0	0	0
RAB7A	670	712	653	498	520	486
RAB8A	431	384	365	195	288	233
RAB8B	444	367	339	609	587	743
RAB9A	124	91	95	58	75	61
RAB9B	4	1	3	1	7	13
RAB9BP1	0	0	0	0	0	0
RABAC1	52	71	75	58	79	46
RABEP1	294	255	246	321	343	329
RABEP2	19	15	28	6	12	8
RABEPK	24	40	52	9	41	30
RABGAP1	237	222	212	268	251	241
RABGAP1L	312	314	290	410	413	383
RABGEF1	48	46	40	90	72	40
RABGGTA	28	17	30	4	15	3
RABGGTB	181	185	222	199	212	199
RABIF	74	67	65	22	9	24

RABL2A	60	58	74	201	124	158
RABL2B	147	221	217	245	279	207
RABL3	55	42	52	48	67	19
RAC1	609	666	540	360	359	415
RAC2	577	624	548	493	625	325
RAC3	0	1	0	0	0	0
RACGAP1	22	14	20	16	12	13
RAD1	60	61	68	93	87	51
RAD17	186	208	193	276	234	285
RAD18	47	29	37	40	41	71
RAD21	1361	1358	1388	1537	1436	1431
RAD21-AS1	1	0	1	22	4	13
RAD21L1	2	0	0	4	0	8
RAD23A	299	238	283	250	249	297
RAD23B	400	399	460	321	290	376
RAD50	19	11	13	43	30	13
RAD51	0	0	0	0	0	0
RAD51AP1	26	14	23	0	0	8
RAD51AP2	0	0	1	6	4	0
RAD51B	10	4	7	22	4	35
RAD51C	42	50	59	40	33	8
RAD51D	30	29	20	19	21	30
RAD52	17	16	14	45	7	35
RAD54B	2	2	0	4	0	0
RAD54L	0	0	0	0	0	0
RAD54L2	113	98	103	147	155	162
RAD9A	18	19	16	13	9	8
RAD9B	4	1	0	1	0	19
RADIL	0	0	2	0	0	0
RAE1	111	134	128	224	201	196
RAET1E	0	0	0	4	0	3
RAET1G	0	0	0	0	0	0
RAET1K	0	0	0	0	0	0
RAET1L	0	0	0	0	0	0
RAF1	158	205	198	187	199	162
RAG1	0	0	0	40	9	51
RAG2	0	0	0	0	0	0
RAI1	166	154	185	187	208	199
RAI14	0	9	2	0	7	0
RAI2	2	1	0	22	2	0
RALA	353	350	322	372	385	432
RALB	202	195	201	72	79	75
RALBP1	388	334	316	420	348	435
RALGAPA1	101	80	103	175	142	173
RALGAPA2	122	96	101	143	149	165
RALGAPB	206	186	218	293	238	245
RALGDS	361	329	438	380	407	279
RALGPS1	14	13	12	16	2	8
RALGPS2	144	139	173	266	252	251
RALY	93	121	155	129	159	143
RALYL	0	1	0	0	0	0
RAMP1	2	1	5	16	7	3
RAMP2	0	0	0	0	0	0
RAMP3	0	0	0	0	0	0
RAN	694	717	559	687	704	806
RANBP1	77	62	55	117	100	66
RANBP10	34	24	23	51	24	40
RANBP17	7	4	3	1	7	13
RANBP2	502	453	424	536	438	540
RANBP3	107	107	147	179	133	162
RANBP3L	0	0	0	1	2	0
RANBP6	173	167	197	190	197	213
RANBP9	142	134	132	207	174	203
RANGAP1	96	76	101	90	108	103
RANGRF	76	55	72	56	69	51
RAP1A	805	734	749	665	640	558
RAP1B	273	346	414	372	415	408
RAP1GAP	0	0	1	19	9	13
RAP1GAP2	30	29	32	19	9	24
RAP1GDS1	130	87	111	63	65	51
RAP2A	317	276	270	179	217	224
RAP2B	447	425	437	184	227	154
RAP2C	163	153	138	121	131	136
RAPGEF1	641	673	751	483	488	532
RAPGEF2	189	129	128	151	103	188
RAPGEF3	2	0	0	9	0	8
RAPGEF4	0	0	1	22	15	24
RAPGEF5	6	5	3	13	15	8
RAPGEF6	102	87	91	195	174	132
RAPGEFL1	0	0	2	0	4	0
RAPI1	15	9	18	4	2	3
RAPSN	0	0	1	0	0	3
RARA	90	105	104	121	117	136
RARB	0	1	0	1	2	0
RARG	20	26	18	13	15	13
RARRES1	0	2	0	4	0	0
RARRES2	0	0	0	0	0	0
RARRES3	241	310	249	221	276	224
RARS	343	286	266	371	316	352
RARS2	116	88	80	108	54	107
RASA1	94	87	88	82	95	128
RASA2	355	373	299	515	452	405
RASA3	377	334	301	375	479	379
RASA4	0	1	1	0	0	0
RASAL1	32	26	28	0	0	0
RASAL2	69	74	47	22	12	30
RASAL3	110	147	160	139	174	71
RASD1	0	2	3	0	4	8
RASD2	0	0	0	0	0	0
RASEF	0	0	0	0	0	0
RASGEF1A	12	13	14	13	15	3
RASGEF1B	88	101	76	48	49	46
RASGEF1C	0	0	0	0	0	0

RASGRF1	2	4	2	1	0	0
RASGRF2	46	49	53	129	103	89
RASGRP1	884	838	840	895	1036	743
RASGRP2	207	225	267	365	326	314
RASGRP3	37	45	48	43	62	61
RASGRP4	2	9	5	0	0	0
RASIP1	0	2	0	0	0	0
RASL10A	0	0	0	0	0	3
RASL10B	0	0	0	0	0	3
RASL11A	0	0	0	0	0	0
RASL11B	0	0	0	0	0	0
RASL12	2	0	0	1	7	24
RASSF1	99	146	168	139	147	124
RASSF10	0	0	0	0	0	0
RASSF2	465	461	411	314	292	282
RASSF3	841	912	778	737	807	632
RASSF4	135	143	183	4	18	0
RASSF5	1106	1150	1068	1399	1515	1304
RASSF6	12	7	6	28	4	24
RASSF7	24	15	26	0	15	3
RASSF8	15	5	0	1	21	13
RASSF9	4	0	0	0	2	0
RAVER1	31	32	46	28	54	24
RAVER2	4	0	5	0	0	0
RAX	0	0	0	0	0	0
RAX2	0	0	0	0	0	0
RB1	353	353	307	239	272	321
RB1CC1	611	540	631	712	601	748
RBAK	101	102	111	155	151	128
RBBP4	212	247	227	278	285	297
RBBP5	47	66	48	121	97	112
RBBP6	964	801	837	1142	967	1218
RBBP7	212	195	152	206	238	220
RBBP8	118	92	93	72	60	89
RBBP9	51	50	46	37	35	30
RBCK1	317	292	241	369	378	432
RBFA	34	20	17	1	21	3
RBFOX1	0	1	2	37	24	61
RBFOX2	2	0	5	6	2	13
RBFOX3	0	0	2	1	2	0
RBKS	5	1	1	6	7	24
RBL1	65	43	46	66	79	19
RBL2	759	763	853	1333	1164	1174
RBM10	99	121	152	190	191	132
RBM11	1	4	3	0	2	13
RBM12	323	268	275	182	174	216
RBM12B	252	249	199	577	429	565
RBM14	79	80	68	112	77	61
RBM14-RBM4	0	0	0	0	4	0
RBM15	136	120	120	76	120	112
RBM15B	236	241	232	331	370	432
RBM17	724	766	716	1048	1092	1193
RBM18	113	120	122	106	120	136
RBM19	47	46	42	48	43	71
RBM20	1	0	0	0	7	8
RBM22	392	448	451	366	389	345
RBM23	294	277	314	402	373	486
RBM24	0	0	0	0	0	0
RBM25	2138	1967	2231	2427	2244	2216
RBM26	899	864	945	1096	1030	1246
RBM26-AS1	14	15	11	100	49	139
RBM27	367	328	296	476	493	534
RBM28	171	191	187	173	166	139
RBM3	667	712	702	525	635	478
RBM33	414	423	499	544	478	550
RBM34	31	29	21	34	18	46
RBM38	166	163	213	207	263	237
RBM39	1663	1504	1623	1830	1644	1861
RBM4	119	117	141	193	155	199
RBM41	147	139	167	206	195	297
RBM42	46	32	41	66	69	51
RBM43	76	67	63	98	87	121
RBM44	5	1	6	6	7	8
RBM45	60	62	72	171	155	261
RBM46	5	5	3	16	2	35
RBM47	345	300	344	13	21	30
RBM48	82	60	48	108	97	56
RBM48B	31	34	25	6	9	0
RBM5	392	391	400	635	560	523
RBM6	285	301	317	500	354	321
RBM7	90	93	94	147	120	196
RBM8A	358	442	451	414	542	408
RBMS1	763	807	819	541	515	501
RBMS2	5	13	7	0	0	0
RBMS3	30	24	18	139	159	158
RBMX	552	577	544	783	758	678
RBMX2	153	121	116	180	149	143
RBMXL1	235	229	240	343	336	472
RBMXL2	0	0	0	0	0	0
RBMXL3	0	0	0	0	0	0
RBMX1A1	0	0	0	0	0	0
RBMX1A3P	0	0	0	0	0	0
RBMX1B	0	0	0	0	0	0
RBMX1D	0	0	0	0	0	0
RBMX1E	0	0	0	0	0	0
RBMX1F	0	0	0	0	0	0
RBMX1J	0	0	0	0	0	0
RBMX2EP	0	0	0	0	0	0
RBMX2FP	0	0	0	0	0	0
RBMX3AP	0	0	0	0	0	0
RBP1	0	0	0	0	0	0
RBP2	0	0	0	0	0	0
RBP3	0	0	0	0	0	0

RBP4	0	0	0	0	0	0
RBP5	0	0	0	0	0	0
RBP7	1	5	0	0	0	0
RBPJ	894	859	869	774	828	729
RBPJL	0	0	0	0	0	0
RBPMS	0	0	0	0	0	13
RBPMS2	0	0	0	0	0	0
RBX1	250	319	270	192	249	220
RC3H1	333	325	388	437	399	450
RC3H2	299	294	276	345	365	425
RCAN1	99	97	80	34	27	8
RCAN2	2	1	2	0	0	0
RCAN3	463	449	410	732	669	748
RCBTB1	29	37	25	45	9	24
RCBTB2	191	174	193	224	177	227
RCC1	55	49	50	263	217	317
RCC2	533	628	607	424	431	379
RCCD1	31	34	23	16	18	8
RCE1	13	4	11	0	9	0
RCHY1	185	162	175	171	227	207
RCL1	55	50	39	34	62	35
RCN1	40	35	46	13	12	13
RCN2	219	233	243	339	340	329
RCN3	0	1	0	0	0	0
RCOR1	289	243	232	163	191	176
RCOR2	0	0	0	0	0	0
RCOR3	241	245	266	187	179	196
RCS1	442	451	440	293	367	267
RCVRN	0	0	0	0	0	0
RD3	0	0	0	0	0	0
RDH10	21	40	37	53	52	56
RDH11	482	464	483	569	595	493
RDH12	0	0	0	0	0	0
RDH13	35	29	25	19	41	8
RDH14	103	125	97	161	162	188
RDH16	0	0	3	0	2	0
RDH5	1	5	1	0	0	0
RDH8	0	0	0	0	0	8
RDM1	0	0	0	0	2	0
RDY	480	439	493	237	203	245
REC8	38	32	40	9	21	24
RECK	52	47	48	60	100	66
RECQL	213	195	219	219	230	165
RECQL4	7	5	5	1	2	13
RECQL5	14	5	11	37	30	8
REEP1	1	0	5	9	7	3
REEP2	0	0	0	0	0	0
REEP3	259	262	248	132	147	98
REEP4	68	91	113	31	35	0
REEP5	687	651	628	347	389	271
REEP6	0	0	0	0	0	0
REG1A	0	0	0	0	0	0
REG1B	1	0	1	1	0	3
REG3A	0	0	0	0	0	0
REG3G	0	0	0	0	0	0
REG4	4	0	2	4	0	0
REL	388	298	337	476	426	482
RELA	317	294	334	441	447	383
RELB	181	254	252	394	426	411
RELL1	13	19	16	37	9	19
RELL2	5	0	3	0	0	0
RELN	1	7	3	40	60	84
RELT	42	62	45	9	18	19
REM1	0	0	0	0	0	0
REM2	2	1	0	22	9	13
REN	1	0	0	6	2	8
RENB	4	1	2	4	0	0
REP15	0	0	1	0	2	0
REPIN1	88	81	83	93	82	107
REPS1	113	150	120	203	203	227
REPS2	12	11	9	1	0	0
REER1	220	272	277	169	208	192
REER	330	322	355	418	359	365
REER	1	1	0	4	9	0
REERGL	0	0	0	0	0	0
RESP18	0	0	0	0	2	8
REST	594	524	501	598	537	579
RET	0	0	0	0	0	0
RETN	4	8	6	0	0	0
RETNLB	0	0	0	0	0	0
RETSAT	106	117	96	90	92	35
REV1	151	133	151	161	147	188
REV3L	240	222	258	347	321	450
REXO1	2	13	7	6	12	3
REXO1L2P	0	0	0	0	0	0
REXO2	157	117	117	157	158	128
REXO4	97	105	89	147	153	147
RFC1	403	310	366	568	498	540
RFC2	13	12	7	0	7	0
RFC3	41	38	34	22	18	30
RFC4	55	80	93	72	82	71
RFC5	24	29	26	31	27	3
RFESD	4	12	12	6	9	8
RFFL	201	214	192	234	234	275
RFK	209	234	166	141	124	79
RFNG	15	19	26	19	7	8
RFPL1	0	0	0	0	0	0
RFPL2	0	0	0	0	0	0
RFPL3	0	0	0	0	0	0
RFPL4A	0	0	0	0	0	0
RFPL4B	0	0	0	0	0	0
RFT1	40	42	57	16	27	13
RFTN1	341	340	295	463	496	379

RFTN2	1	0	1	0	4	3
RFWD3	56	77	61	58	97	117
RFX1	121	147	159	153	189	169
RFX2	7	8	12	13	7	13
RFX3	132	113	138	248	201	282
RFX4	2	5	0	28	12	46
RFX5	126	96	107	37	54	35
RFX6	14	9	7	22	7	30
RFX7	139	101	93	151	164	179
RFX8	0	0	1	0	0	0
RFXANK	20	24	29	13	4	3
RFXAP	37	26	28	34	46	46
RGL1	341	336	305	19	30	13
RGL2	45	40	50	182	97	203
RGL3	0	0	0	0	4	0
RGL4	9	9	20	6	12	13
RGMA	0	4	0	0	0	0
RGMB	21	11	15	31	35	24
RGN	0	0	0	0	0	0
RGPI	306	306	252	441	433	415
RGPD1	0	0	0	0	0	0
RGPD2	0	0	1	0	0	0
RGPD3	0	0	0	0	0	0
RGPD4	0	0	0	0	0	0
RGPD5	0	0	0	0	0	0
RGPD6	0	0	0	0	0	0
RGPD8	0	0	0	0	0	0
RGR	0	0	0	6	0	0
RG51	195	199	208	455	429	668
RG510	261	295	258	230	208	210
RG511	0	0	0	0	0	0
RG512	45	56	45	4	2	3
RG513	4	0	0	6	0	0
RG514	90	115	115	134	111	89
RG516	6	11	1	37	35	40
RG517	9	5	20	100	106	124
RG518	145	125	83	134	151	224
RG519	165	194	165	43	60	24
RG52	482	453	390	363	399	379
RG520	0	0	0	0	0	0
RG521	0	0	0	0	0	0
RG522	0	4	2	31	21	46
RG53	25	20	29	40	67	24
RG54	1	0	0	1	4	19
RG55	7	9	9	48	30	103
RG56	1	0	0	0	2	0
RG57	0	0	0	0	0	0
RG57BP	0	0	0	0	0	0
RG58	0	0	0	0	0	0
RG59	15	16	17	22	21	0
RG59BP	0	0	0	0	0	0
RGSL1	0	0	0	4	9	3
RHAG	0	0	0	0	0	0
RHBDD1	54	62	45	53	38	46
RHBDD2	30	43	39	28	62	13
RHBDD3	10	11	5	1	4	13
RHBDF1	0	0	0	4	12	30
RHBDF2	282	349	426	169	199	98
RHBDL1	0	0	0	4	2	0
RHBDL2	0	0	0	0	0	3
RHBDL3	0	0	0	0	0	0
RHBG	0	0	0	0	0	0
RHCE	0	0	0	0	0	0
RHCG	0	0	0	0	0	0
RHD	0	0	0	0	0	0
RHEB	101	91	87	40	82	51
RHEBL1	17	15	12	1	2	0
RHO	0	0	0	0	0	0
RHOA	1478	1445	1344	1035	963	937
RHOB	89	79	61	31	18	56
RHOBTB1	6	8	3	0	0	3
RHOBTB2	18	14	20	1	4	0
RHOBTB3	52	68	72	25	41	30
RHOC	30	21	21	31	7	19
RHOD	0	0	0	0	0	0
RHOF	62	72	85	90	82	71
RHOG	140	131	109	95	106	121
RHOH	267	268	276	459	473	505
RHOJ	0	0	0	0	9	0
RHOQ	614	594	595	145	158	132
RHOT1	266	258	286	173	164	176
RHOT2	134	161	192	197	193	143
RHOV	111	108	91	6	21	13
RHOV	0	0	0	0	0	0
RHOXF1	0	1	0	1	0	0
RHOXF2	0	0	0	0	0	0
RHOXF2B	0	0	0	0	0	0
RHPN1	0	0	3	0	0	19
RHPN2	0	0	0	6	0	0
RIBC1	0	0	0	6	0	0
RIBC2	0	0	0	4	0	8
RIC3	29	14	15	53	38	71
RIC8A	98	102	108	106	122	84
RIC8B	35	34	39	53	38	71
RICTOR	394	418	434	618	480	612
RIF1	525	526	577	643	610	778
RIIAD1	0	0	0	0	0	0
RILP	31	28	23	0	9	3
RILPL1	7	6	7	9	2	3
RILPL2	191	179	195	123	124	84
RIMBP2	0	0	0	0	0	0
RIMBP3	0	0	0	0	0	0
RIMBP3B	0	0	0	0	0	0

RIMBP3C	0	0	0	0	0	0
RIMKLA	0	0	0	4	2	3
RIMKLB	39	39	43	16	33	51
RIMS1	1	0	5	4	2	19
RIMS2	9	1	6	13	38	51
RIMS3	5	5	12	1	4	0
RIMS4	0	0	0	0	0	3
RIN1	9	11	9	0	0	0
RIN2	172	169	164	6	27	56
RIN3	41	60	48	100	79	40
RING1	84	100	99	66	46	35
RINL	47	32	35	43	62	35
RINT1	67	46	44	53	54	30
RIOK1	106	124	112	184	151	139
RIOK2	75	78	87	60	79	98
RIOK3	185	174	158	203	174	213
RIPK1	126	139	142	100	108	66
RIPK2	177	189	160	90	84	103
RIPK3	59	32	39	4	7	0
RIPK4	0	0	0	0	0	0
RIPPLY1	0	0	0	0	0	0
RIPPLY2	0	0	0	0	0	0
RIT1	238	269	255	76	106	94
RIT2	0	0	0	0	0	3
RLBP1	0	0	0	0	0	3
RLF	326	325	314	329	365	435
RLIM	196	221	229	241	236	291
RLN1	0	1	0	0	2	0
RLN2	9	0	2	4	4	13
RLN3	0	0	0	0	0	0
RMI1	98	96	79	60	62	66
RMI2	24	24	11	6	24	24
RMND1	15	21	15	16	15	8
RMND5A	276	227	232	300	292	264
RMND5B	11	4	16	6	15	0
RMRP	0	0	0	0	0	0
RMST	1	2	2	6	0	19
RNASE1	6	6	7	0	0	0
RNASE10	0	0	0	0	0	0
RNASE11	0	0	0	0	0	0
RNASE12	0	0	0	0	0	0
RNASE13	0	0	0	0	0	3
RNASE2	4	7	6	4	4	3
RNASE3	0	0	0	0	0	0
RNASE4	0	0	0	0	0	0
RNASE6	116	114	62	6	2	3
RNASE7	0	0	0	0	0	0
RNASE8	0	0	0	0	0	0
RNASE9	0	0	0	0	0	0
RNASEH1	93	91	108	125	144	188
RNASEH2A	6	12	7	16	0	13
RNASEH2B	283	275	259	274	281	258
RNASEH2C	56	56	53	43	49	40
RNASEK	5	9	6	53	33	40
RNASEK-C17orf49	0	0	0	0	0	0
RNASEL	77	72	62	45	52	46
RNASET2	229	293	243	224	149	98
RND1	4	1	12	31	18	51
RND2	0	0	0	1	0	0
RND3	0	0	0	0	0	0
RNF10	257	248	254	412	302	388
RNF103	50	49	61	106	75	94
RNF103-CHMP3	0	0	0	0	0	0
RNF11	228	169	190	192	208	233
RNF111	88	95	105	139	127	179
RNF112	0	1	0	0	7	0
RNF113A	70	56	58	112	100	124
RNF113B	0	0	0	0	0	0
RNF114	235	237	240	211	206	220
RNF115	283	329	295	400	389	405
RNF121	39	46	39	28	33	35
RNF122	6	5	1	0	2	0
RNF123	21	26	16	4	15	13
RNF125	123	135	119	82	72	51
RNF126	83	92	113	163	155	154
RNF126P1	0	0	0	0	0	0
RNF128	0	0	0	0	0	0
RNF13	311	265	251	143	170	162
RNF130	323	279	213	48	57	75
RNF133	0	0	0	0	0	0
RNF135	47	47	50	9	24	30
RNF138	217	238	201	197	221	207
RNF138P1	0	0	0	0	0	0
RNF139	142	147	128	79	87	89
RNF14	146	143	103	63	77	35
RNF141	69	66	61	60	75	61
RNF144A	39	48	63	98	106	107
RNF144B	64	93	72	13	9	0
RNF145	308	289	268	441	452	482
RNF146	151	155	193	307	302	340
RNF148	0	0	0	0	0	0
RNF149	317	316	259	358	380	335
RNF150	0	2	3	9	21	19
RNF151	0	0	0	0	0	0
RNF152	2	0	6	1	0	19
RNF157	34	28	47	123	111	89
RNF165	20	11	7	40	21	132
RNF166	171	231	248	241	223	179
RNF167	62	76	94	163	120	179
RNF168	300	296	290	366	456	402
RNF169	113	128	109	103	111	121
RNF17	1	0	0	0	0	0
RNF170	63	43	53	53	46	79

RNF175	6	5	3	19	12	19
RNF180	0	0	1	4	4	3
RNF181	158	157	162	66	117	40
RNF182	0	0	0	0	0	8
RNF183	0	0	2	9	9	30
RNF185	13	7	8	0	2	8
RNF186	0	0	0	0	0	0
RNF187	228	217	203	187	236	154
RNF19A	350	336	351	402	431	463
RNF19B	74	88	88	16	33	24
RNF2	89	80	106	106	122	35
RNF20	246	212	190	184	185	158
RNF207	1	0	1	0	0	0
RNF208	0	2	0	0	2	0
RNF212	5	4	12	22	2	40
RNF213	1168	1258	1595	1056	956	1230
RNF214	99	121	122	167	166	173
RNF215	0	0	7	16	4	8
RNF216	175	189	209	280	281	297
RNF216P1	65	74	77	87	75	46
RNF217	56	46	44	13	21	56
RNF219	135	129	116	206	191	267
RNF220	147	139	135	108	129	98
RNF222	0	1	0	0	2	0
RNF223	0	0	0	0	0	0
RNF224	0	0	0	0	0	0
RNF24	153	159	175	34	67	40
RNF25	4	11	7	1	9	3
RNF26	22	41	21	25	15	3
RNF31	1	0	0	0	0	0
RNF32	1	1	0	1	4	19
RNF34	230	262	237	304	357	362
RNF38	147	155	154	167	185	151
RNF39	0	0	0	0	0	0
RNF4	69	76	67	127	92	128
RNF40	94	79	80	56	79	71
RNF41	159	161	137	129	133	112
RNF43	1	8	0	6	0	3
RNF44	568	503	519	857	696	644
RNF5	32	29	37	9	30	3
RNF5P1	0	0	0	0	0	0
RNF6	150	127	99	139	142	143
RNF7	174	194	182	147	144	151
RNF8	77	83	78	84	77	89
RNFT1	48	50	58	6	21	24
RNFT2	6	8	2	6	7	0
RNGTT	78	60	82	82	82	61
RNH1	252	307	328	121	103	71
RNLS	4	4	2	1	2	0
RNMT	278	233	277	349	365	365
RNPC3	201	171	204	274	203	285
RNPEP	111	87	71	31	33	35
RNPEPL1	54	70	66	37	67	35
RNPS1	169	148	117	213	199	203
RNU11	1	1	0	13	9	13
RNU12	0	0	0	0	0	0
RNU4ATAC	148	142	199	239	300	288
RNU5D-1	0	0	0	0	0	0
RNU5E-1	0	0	0	0	0	0
RNU5F-1	9	4	7	19	4	13
RNU6ATAC	1	0	0	9	0	19
RNY4	1	5	2	4	7	3
ROBO1	5	0	0	9	7	13
ROBO2	4	1	2	4	2	13
ROBO3	6	4	8	9	9	3
ROBO4	0	0	0	0	2	0
ROCK1	1385	1302	1424	1431	1206	1275
ROCK1P1	0	1	2	0	0	0
ROCK2	263	245	238	159	174	139
ROGDI	21	28	28	0	2	0
ROM1	5	4	5	6	2	0
ROMO1	180	121	132	56	92	56
ROPN1	0	0	0	0	2	3
ROPN1B	0	0	0	0	0	0
ROPN1L	0	0	0	0	0	0
ROR1	9	5	6	22	35	40
ROR2	0	0	0	0	0	0
RORA	673	604	624	982	991	1148
RORB	2	0	2	6	2	8
RORC	4	1	0	1	7	0
ROS1	0	0	1	13	7	0
RP1	1	1	1	0	2	0
RP111	0	0	0	0	0	0
RP2	231	275	258	121	117	98
RP9	97	94	88	151	158	237
RP9P	6	5	6	4	4	0
RPA1	154	163	127	217	164	169
RPA2	107	124	108	161	153	89
RPA3	114	88	90	159	159	112
RPA4	5	0	3	6	4	3
RPAIN	118	111	94	161	140	165
RPAP1	48	30	46	66	46	51
RPAP2	129	127	119	349	343	393
RPAP3	310	300	321	132	159	98
RPE	102	82	62	72	72	98
RPE65	0	0	0	0	0	0
RPF1	219	247	220	199	223	176
RPF2	127	117	109	87	127	112
RPGR	75	46	71	53	41	30
RPGRIP1	2	5	0	0	0	0
RPGRIP1L	20	7	11	0	7	35
RPH3A	0	0	0	0	4	0
RPH3AL	1	4	0	4	4	0

RPIA	119	199	197	207	230	158
RPL10	484	494	393	1005	1092	1089
RPL10A	614	610	583	1315	1361	1598
RPL10L	0	0	0	0	0	0
RPL11	2244	2335	2352	3766	3999	3916
RPL12	512	497	483	1054	1105	1117
RPL13	1990	2187	1990	3679	3766	3766
RPL13A	1307	1368	1294	2260	2260	2372
RPL13AP17	0	0	0	0	0	0
RPL13AP20	2	4	3	28	24	35
RPL13AP3	1	12	9	19	21	13
RPL13AP5	329	280	264	851	797	990
RPL13AP6	1	5	1	6	2	19
RPL13P5	18	13	13	0	15	3
RPL14	988	921	896	1776	1820	1956
RPL15	1846	1942	2002	2836	2769	2936
RPL17	18	12	29	60	41	89
RPL17-C18orf32	0	0	0	0	0	0
RPL18	1512	1636	1751	2905	3048	2873
RPL18A	29	33	20	197	240	188
RPL19	1623	1669	1663	2967	2807	3083
RPL21	36	48	40	69	117	98
RPL21P28	0	0	0	1	2	0
RPL21P44	10	13	11	66	46	56
RPL22	365	430	417	1204	1153	1397
RPL22L1	157	157	159	123	153	158
RPL23	3007	3007	2905	3916	3850	3999
RPL23A	478	487	358	1113	1060	1213
RPL23AP32	1	0	0	0	2	8
RPL23AP53	0	4	6	0	0	3
RPL23AP64	0	0	0	9	0	8
RPL23AP7	0	0	0	0	0	0
RPL23AP82	6	2	0	0	0	0
RPL23P8	39	26	28	127	129	151
RPL24	585	627	703	1226	1318	1315
RPL26	2335	2583	2583	3427	3192	3679
RPL26L1	46	40	39	16	33	46
RPL27	1912	2033	2067	2936	3083	3007
RPL27A	4088	4538	5319	6045	7072	6588
RPL28	508	445	459	807	850	862
RPL29	213	248	207	573	579	658
RPL29P2	0	0	0	0	0	0
RPL3	124	134	115	427	547	511
RPL30	3916	4088	3766	5319	5319	5319
RPL31	2634	2707	2738	3999	3916	3850
RPL31P11	4	6	1	51	57	89
RPL32	2077	2216	2166	3380	3324	3380
RPL32P3	25	22	32	106	75	79
RPL34	3283	3427	3679	4407	4196	4407
RPL35	917	991	1177	1978	2138	2154
RPL35A	2352	2290	2322	3592	3592	3592
RPL36	973	1113	1096	2097	2077	2056
RPL36A	77	67	78	209	210	185
RPL36A-HNRNPH2	0	0	0	0	0	0
RPL36AL	876	924	846	1421	1394	1315
RPL37	2807	2532	2486	4286	4088	4196
RPL37A	4196	3916	3592	6588	6045	6045
RPL38	2260	2201	2260	3324	3283	3477
RPL39	676	852	1092	1463	1592	1579
RPL39L	23	16	17	6	15	8
RPL3L	0	0	0	0	0	0
RPL4	778	769	647	1658	1675	1835
RPL41	185	252	333	406	501	543
RPL5	1900	1851	1630	3112	2936	3048
RPL6	155	159	154	456	332	499
RPL7	14	24	13	69	33	35
RPL7A	902	928	892	1609	1694	1663
RPL7L1	169	154	159	257	225	230
RPL8	873	1019	1128	2110	2110	1990
RPL9	159	236	267	539	493	518
RPLP0	973	1144	1213	1956	2097	2041
RPLP0P2	6	0	1	4	9	3
RPLP1	3477	3850	3999	5015	5015	5015
RPLP2	3324	3477	3324	4674	4674	4538
RPN1	566	659	586	416	463	408
RPN2	442	435	420	285	276	335
RPP14	109	107	107	232	195	207
RPP21	7	4	21	1	15	0
RPP25	10	7	6	1	2	0
RPP30	84	73	66	72	97	79
RPP38	46	31	39	82	30	61
RPP40	22	16	17	4	9	13
RPPH1	0	0	0	0	0	0
RPRD1A	54	62	53	119	87	98
RPRD1B	99	98	129	228	195	233
RPRD2	221	257	249	254	270	308
RPRM	0	0	0	0	0	0
RPRML	0	0	0	0	0	0
RPS10	175	225	267	546	595	668
RPS10-NUDT3	0	0	0	0	0	0
RPS10P7	9	8	21	31	27	35
RPS11	1769	1956	2077	3083	3112	3112
RPS12	2738	3048	3112	4538	4286	4674
RPS13	1119	1104	956	1967	1990	2154
RPS14	2769	2967	3007	4196	4407	4286
RPS15	335	402	387	857	930	884
RPS15A	677	535	535	1354	1475	1427
RPS15AP10	7	13	5	19	21	24
RPS16	1802	1825	1967	3244	3380	3244
RPS16P5	0	0	0	0	0	0
RPS17	583	604	686	1222	1214	1346
RPS18	1022	869	681	2173	2389	2290
RPS19	1759	1861	1669	3283	3427	3324

RPS19BP1	56	68	77	79	87	61
RPS2	444	517	464	1125	1128	1166
RPS20	1669	1741	1682	2873	2967	2967
RPS21	1956	2033	1932	3147	3244	3192
RPS23	1198	1206	1241	2467	2604	2658
RPS24	2583	2836	2873	3477	3477	3283
RPS25	414	347	366	1070	1105	1130
RPS26	15	17	24	37	27	30
RPS26P11	0	0	0	0	7	0
RPS27	116	93	82	314	319	432
RPS27A	1499	1759	1604	2707	2634	2738
RPS27L	395	475	476	294	383	379
RPS28	1263	1509	1507	2290	2335	2551
RPS29	7072	7072	7072	8884	12614	12614
RPS2P32	0	4	2	0	0	0
RPS3	1234	1403	1595	2508	2738	2508
RPS3A	110	125	140	385	362	345
RPS4X	1558	1825	2041	3048	3007	3147
RPS4Y1	589	638	619	1001	1022	1014
RPS4Y2	0	0	0	0	0	0
RPS5	619	677	625	1411	1564	1630
RPS6	3999	3999	3850	5644	5644	5644
RPS6KA1	111	133	111	90	67	66
RPS6KA2	35	24	42	31	33	24
RPS6KA3	484	466	505	720	673	668
RPS6KA4	25	23	12	6	7	0
RPS6KA5	258	234	276	221	183	220
RPS6KA6	5	9	6	22	33	30
RPS6KB1	160	144	173	209	185	154
RPS6KB2	58	61	67	48	87	46
RPS6KC1	56	52	46	22	4	13
RPS6KL1	0	1	0	0	0	0
RPS7	249	217	157	566	589	629
RPS7P5	0	2	3	9	4	8
RPS8	3244	3083	3192	4841	4841	4841
RPS9	490	632	583	1171	1372	1260
RPSA	166	134	162	354	335	408
RPSAP52	0	0	1	0	0	0
RPSAP58	6	2	8	22	27	3
RPSAP9	0	0	0	0	0	0
RPTN	0	0	0	0	0	0
RPTOR	13	15	15	19	9	19
RPUSD1	4	13	8	1	2	0
RPUSD2	70	88	75	199	214	237
RPUSD3	32	30	39	16	24	3
RPUSD4	143	143	126	182	199	143
RRAD	0	0	0	0	7	3
RRAGA	205	199	154	195	168	162
RRAGB	24	24	21	22	12	8
RRAGC	157	151	152	132	108	71
RRAGD	195	126	140	37	95	24
RRAS	39	50	58	6	0	8
RRAS2	49	54	34	100	75	147
RRBP1	154	174	201	63	84	66
RREB1	106	100	140	106	100	124
RRH	0	0	0	0	0	0
RRM1	424	494	402	274	405	275
RRM2	1	0	3	0	0	0
RRM2B	161	133	151	76	95	89
RRN3	140	125	142	278	274	267
RRN3P1	24	20	21	34	30	40
RRN3P2	0	0	1	0	0	0
RRN3P3	25	46	26	16	27	19
RRNAD1	11	11	11	9	12	8
RRP1	18	23	23	16	18	24
RRP12	11	11	9	6	2	0
RRP15	115	157	130	190	166	241
RRP18	220	191	182	252	270	297
RRP36	76	73	65	100	106	94
RRP7A	44	48	58	56	65	51
RRP8	60	74	77	167	151	158
RRP9	19	7	11	4	21	0
RRS1	147	155	147	248	259	230
RS1	0	0	0	0	0	0
RSAD1	26	39	24	76	30	46
RSAD2	72	54	50	25	35	75
RSBN1	387	425	471	672	673	654
RSBN1L	422	366	365	528	520	499
RSC1A1	0	0	0	0	0	0
RSF1	752	689	800	1232	1075	1298
RSL1D1	429	412	366	911	869	928
RSL24D1	370	316	279	611	643	632
RSPH1	0	0	0	6	0	0
RSPH10B	0	0	0	1	0	3
RSPH10B2	0	0	0	0	0	0
RSPH3	40	40	31	19	15	3
RSPH4A	2	1	5	58	30	117
RSPH6A	0	0	0	0	0	8
RSPH9	0	0	0	0	0	0
RSP01	0	0	0	0	0	0
RSP02	0	0	0	0	0	8
RSP03	1	0	0	1	4	0
RSP04	0	0	1	0	0	0
RSPRY1	61	69	89	110	115	75
RSRC1	385	321	358	414	332	348
RSRC2	601	527	539	752	730	906
RSU1	358	345	332	106	142	143
RTBDN	0	0	0	0	0	0
RTL1	0	0	0	0	0	0
RTL1-TNFRSF6B	0	0	0	0	0	0
RTF1	497	499	471	512	579	573
RTKN	1	0	0	0	0	0
RTKN2	52	56	71	79	72	66

RTL1	0	0	0	0	0	0
RTN1	88	106	89	0	0	0
RTN2	0	0	3	0	0	0
RTN3	327	331	336	66	87	35
RTN4	1394	1463	1424	525	738	508
RTN4IP1	15	8	16	13	15	13
RTN4R	23	28	23	19	21	3
RTN4RL1	0	0	0	0	0	0
RTN4RL2	0	0	0	0	0	0
RTP1	0	0	0	6	7	13
RTP2	0	0	0	0	0	0
RTP3	0	0	0	0	0	0
RTP4	40	39	21	25	57	46
RTTN	32	15	17	43	46	30
RUFY1	193	178	159	134	151	107
RUFY2	72	55	65	43	52	107
RUFY3	144	132	154	165	113	169
RUFY4	9	4	3	0	0	0
RUNDC1	77	57	71	76	79	89
RUNDC3A	0	0	1	0	0	3
RUNDC3B	15	13	17	45	95	124
RUNX1	241	245	245	266	285	224
RUNX1T1	12	20	23	119	111	233
RUNX2	55	47	66	31	46	24
RUNX3	909	941	882	1075	1214	1014
RUSC1	17	25	26	13	7	3
RUSC1-AS1	2	2	0	0	0	0
RUSC2	13	7	5	0	0	0
RUVBL1	64	69	94	151	151	112
RUVBL2	20	30	13	4	15	0
RWDD1	324	303	279	323	335	348
RWDD2A	19	11	5	16	24	19
RWDD2B	20	11	18	34	43	30
RWDD3	6	5	1	0	0	0
RWDD4	63	37	24	48	60	35
RXFP1	0	1	1	4	2	3
RXFP2	0	0	0	0	0	0
RXFP3	0	0	0	0	0	0
RXFP4	0	0	0	0	0	0
RXRA	288	280	302	37	69	51
RXRB	40	43	60	66	87	51
RXRG	0	0	0	0	0	0
RYBP	451	464	413	504	447	505
RYK	134	131	167	106	108	79
RYR1	4	1	0	22	7	24
RYR2	7	4	2	51	38	51
RYR3	5	4	3	0	0	13
S100A1	0	0	0	0	0	0
S100A10	439	482	422	259	311	158
S100A11	383	459	501	51	113	51
S100A12	39	37	47	1	2	0
S100A13	1	8	7	34	12	46
S100A14	0	0	0	1	0	0
S100A16	0	0	0	0	0	0
S100A2	0	0	0	0	0	0
S100A3	0	0	0	0	0	0
S100A4	812	949	746	264	319	192
S100A5	0	0	1	0	0	0
S100A6	1751	1890	1861	491	632	365
S100A7	0	0	0	0	0	0
S100A7A	0	0	0	0	0	0
S100A7L2	0	0	0	0	0	0
S100A8	1721	1609	1617	177	234	192
S100A9	651	809	1078	76	131	139
S100B	0	0	0	0	0	0
S100G	0	0	0	0	0	0
S100P	11	2	6	4	0	13
S100PBP	115	101	107	187	147	139
S100Z	2	2	1	1	2	3
S1PR1	472	482	416	629	660	529
S1PR2	66	63	59	6	21	13
S1PR3	0	2	3	0	2	0
S1PR4	69	93	84	87	117	13
S1PR5	214	195	185	356	413	308
SAA1	0	0	0	0	0	0
SAA2	0	0	0	0	0	0
SAA2-SAA4	0	0	0	0	0	0
SAA3P	0	0	0	0	0	0
SAA4	0	0	0	0	0	0
SAAL1	58	54	72	51	77	66
SAC3D1	34	34	40	4	4	0
SACM1L	236	239	190	354	277	279
SACS	210	184	175	82	122	89
SAE1	108	122	123	110	92	132
SAFB	248	334	312	528	529	610
SAFB2	514	521	511	802	754	812
SAG	0	0	0	9	4	8
SAGE1	0	0	0	0	0	0
SALL1	0	0	0	0	0	3
SALL2	13	15	11	1	4	0
SALL3	1	0	0	0	0	0
SALL4	6	4	13	6	15	24
SAMD1	134	199	158	139	149	89
SAMD10	9	13	3	0	0	0
SAMD11	0	0	0	0	0	0
SAMD12	9	12	17	28	24	46
SAMD13	4	0	1	0	0	0
SAMD14	0	0	0	0	0	13
SAMD15	2	0	0	0	0	0
SAMD3	316	276	266	259	309	176
SAMD4A	15	17	20	4	33	0
SAMD4B	116	117	164	159	127	165
SAMD5	0	0	1	0	7	8

SAMD7	0	0	0	0	4	24
SAMD8	41	50	42	45	38	46
SAMD9	389	388	389	327	348	325
SAMD9L	517	460	531	213	232	192
SAMHD1	1206	1263	1310	461	443	428
SAMM50	62	47	48	76	65	46
SAMSN1	845	789	789	662	694	711
SAP130	64	77	69	82	60	117
SAP18	428	446	434	635	653	658
SAP25	0	0	2	0	0	0
SAP30	111	95	85	16	46	8
SAP30BP	114	126	129	145	153	136
SAP30L	191	198	172	309	292	359
SAPCD1	0	0	0	0	0	0
SAPCD2	2	6	2	1	0	0
SAR1A	269	268	304	252	307	288
SAR1B	213	220	209	213	274	233
SARDH	0	1	0	0	0	0
SARM1	9	24	30	34	43	46
SARNP	37	29	44	74	95	112
SARS	154	159	157	195	181	185
SARS2	11	5	11	6	0	3
SART1	34	24	31	100	75	75
SART3	253	257	246	459	459	540
SASH1	46	57	42	19	9	3
SASH3	100	134	177	129	164	121
SASS6	61	40	47	56	62	30
SAT1	1512	1436	1458	380	463	362
SAT2	89	90	96	60	79	40
SATB1	863	828	952	1585	1469	1685
SATB2	0	2	2	0	2	0
SATL1	0	0	1	0	0	0
SAV1	84	92	90	79	69	75
SAYSD1	83	80	69	48	65	13
SBDS	225	202	197	171	197	227
SBDSP1	64	46	36	63	57	84
SBF1	167	184	215	224	259	176
SBF1P1	0	0	0	0	0	0
SBF2	116	96	107	103	100	132
SBK1	56	60	74	40	46	0
SBK2	0	0	0	0	0	0
SBNO1	569	565	501	630	589	691
SBNO2	163	192	229	184	210	227
SBSN	0	0	0	1	0	0
SCAF1	6	11	9	9	0	30
SCAF11	1354	1361	1438	1289	1220	1304
SCAF4	106	98	127	165	164	210
SCAF8	197	220	193	145	133	162
SCAI	41	33	45	53	38	46
SCAMP1	200	190	190	171	203	112
SCAMP2	500	609	505	261	314	185
SCAMP3	39	38	45	58	49	71
SCAMP4	37	40	65	19	35	8
SCAMP5	2	0	0	0	0	0
SCAND1	28	31	30	19	9	13
SCAP	56	70	58	69	90	75
SCAPER	193	217	278	290	240	301
SCARA3	0	0	0	0	0	0
SCARA5	0	0	0	4	7	13
SCARB1	13	13	16	1	4	0
SCARB2	374	433	440	63	62	46
SCARF1	38	49	35	13	4	8
SCARF2	0	0	0	0	0	0
SCARNA1	0	0	0	0	0	0
SCARNA10	5	0	1	31	27	3
SCARNA11	0	0	0	0	0	0
SCARNA12	0	0	0	0	0	0
SCARNA13	0	0	1	4	4	3
SCARNA14	0	0	0	0	0	0
SCARNA15	0	0	0	0	0	0
SCARNA17	0	0	0	0	0	0
SCARNA18	0	1	0	0	0	0
SCARNA2	0	0	0	0	0	0
SCARNA20	0	0	0	0	0	0
SCARNA21	65	70	61	418	304	422
SCARNA22	9	8	15	13	21	3
SCARNA23	0	0	0	0	0	0
SCARNA3	0	0	0	0	0	0
SCARNA4	0	0	0	0	0	0
SCARNA5	9	6	8	31	30	79
SCARNA6	0	0	0	0	0	0
SCARNA7	28	20	18	90	67	94
SCARNA8	0	0	0	0	0	0
SCARNA9	383	475	459	1035	1010	1082
SCCPDH	50	62	55	28	33	3
SCD	56	76	46	0	21	3
SCD5	14	16	12	22	27	3
SCEL	0	0	0	0	0	0
SCFD1	222	250	240	180	168	245
SCFD2	6	15	15	0	9	3
SCG2	0	0	0	0	0	0
SCG3	2	0	0	0	0	0
SCG5	1	0	0	0	2	0
SCGB1A1	0	0	0	0	0	0
SCGB1B2P	0	0	0	0	0	0
SCGB1C1	0	0	0	0	0	0
SCGB1D1	0	0	0	0	0	0
SCGB1D2	0	0	0	0	0	0
SCGB1D4	0	0	0	0	0	0
SCGB2A1	0	0	0	0	0	0
SCGB2A2	4	0	3	4	2	13
SCGB2B2	0	0	0	0	0	0
SCGB2B3P	0	0	0	0	0	0

SCGB3A1	0	0	0	0	0	0
SCGB3A2	0	0	0	0	0	0
SCGN	0	0	0	0	0	0
SCHIP1	1	0	1	9	2	8
SCIMP	36	34	34	31	18	46
SCIN	1	4	1	0	7	8
SLCT1	182	152	166	234	193	192
SCLY	6	4	0	0	0	0
SCMH1	11	8	6	4	7	13
SCML1	68	70	83	108	87	169
SCML2	0	0	0	0	0	0
SCML4	92	87	123	179	147	165
SCN10A	0	0	0	0	0	3
SCN11A	5	4	8	51	30	121
SCN1A	5	12	8	63	62	112
SCN1B	1	1	1	16	2	35
SCN2A	4	7	12	28	33	30
SCN2B	0	0	0	79	49	121
SCN3A	19	22	25	37	65	151
SCN3B	2	0	2	1	4	13
SCN4A	0	0	0	6	0	13
SCN4B	0	0	0	16	7	19
SCN5A	0	0	0	0	0	0
SCN7A	0	0	0	0	0	3
SCN8A	1	2	5	6	0	24
SCN9A	4	5	5	0	4	13
SCNM1	63	60	55	72	82	56
SCNN1A	0	0	0	1	0	0
SCNN1B	0	0	0	0	0	0
SCNN1D	0	0	5	4	4	8
SCNN1G	0	0	0	0	0	0
SCO1	106	120	127	192	181	192
SCO2	0	0	0	0	0	0
SCOC	201	193	168	209	193	227
SCP2	417	413	346	369	300	325
SCPEP1	409	437	411	48	38	35
SCRG1	1	4	0	19	21	19
SCRIB	50	39	52	53	24	61
SCRN1	47	55	53	56	49	56
SCRN2	24	31	37	25	41	8
SCRN3	47	62	29	22	30	0
SCRT1	0	0	0	0	0	0
SCRT2	0	0	0	0	0	0
SCT	0	0	0	0	0	0
SCTR	0	0	0	0	0	0
SCUBE1	0	0	0	0	0	0
SCUBE2	1	0	0	9	2	8
SCUBE3	2	1	2	0	0	0
SCYL1	34	34	50	25	27	3
SCYL2	321	305	319	263	263	210
SCYL3	87	80	91	139	108	185
SDAD1	255	293	305	439	429	447
SDC1	0	0	0	0	2	13
SDC2	128	155	159	6	69	19
SDC3	26	33	21	0	0	0
SDC4	65	72	77	1	27	3
SDC4P	0	0	0	0	0	0
SDCBP	2012	2002	1820	640	706	616
SDCBP2	6	4	2	56	38	30
SDCCAG8	150	136	162	169	179	179
SDF2	102	139	124	114	122	136
SDF2L1	88	96	142	6	46	8
SDF4	253	281	270	304	316	317
SDHA	140	141	109	159	144	143
SDHAF1	18	11	14	19	27	0
SDHAF2	75	82	111	93	82	103
SDHAP1	12	8	7	13	4	0
SDHAP2	0	0	0	0	0	0
SDHAP3	0	0	0	4	0	0
SDHB	246	259	251	157	183	220
SDHC	385	372	334	329	309	271
SDHD	93	71	100	66	46	89
SDK1	0	0	0	0	0	0
SDK2	78	102	85	179	187	71
SDR16C5	0	0	0	0	0	0
SDR39U1	60	92	65	79	108	40
SDR4ZE1	4	7	12	6	24	40
SDR9C7	0	0	0	1	0	0
SDS	6	2	3	0	0	0
SDSL	14	20	17	0	0	0
SEBOX	0	0	0	0	0	0
SEC11A	636	688	557	809	829	783
SEC11C	380	353	326	315	370	321
SEC13	183	219	213	100	103	139
SEC14L1	197	169	152	159	131	220
SEC14L2	5	5	0	0	0	0
SEC14L3	0	0	0	0	0	3
SEC14L4	1	0	0	4	9	19
SEC14L5	0	0	0	0	0	0
SEC14L6	0	0	0	0	0	0
SEC16A	125	143	123	141	131	173
SEC16B	0	0	0	0	0	0
SEC22A	36	39	26	43	43	35
SEC22B	102	111	135	90	87	98
SEC22C	133	126	120	157	144	128
SEC23A	268	252	202	190	214	213
SEC23B	235	264	207	169	177	173
SEC23IP	228	197	203	197	212	169
SEC24A	111	104	116	100	87	128
SEC24B	70	63	87	100	106	132
SEC24C	77	82	55	110	108	98
SEC24D	192	214	228	98	90	75
SEC31A	395	362	377	274	249	203

SEC31B	39	50	37	121	54	103
SEC61A1	186	224	238	165	201	179
SEC61A2	6	4	12	0	7	13
SEC61B	661	694	554	561	547	419
SEC61G	846	879	739	748	916	794
SEC62	1186	1128	1119	1260	1358	1417
SEC63	398	387	379	448	463	422
SECISBP2	222	179	206	206	183	176
SECISBP2L	364	362	398	356	335	397
SECTM1	163	144	225	9	18	40
SEH1L	80	76	83	40	21	13
SEL1L	547	546	557	485	485	495
SEL1L2	0	0	0	0	0	0
SEL1L3	241	247	219	264	365	179
SELE	0	0	0	0	0	0
SELENBP1	0	0	1	0	0	3
SELL	563	631	637	1078	1018	932
SELP	1	0	0	19	2	0
SELPLG	193	190	127	180	174	203
SEMA3A	9	13	14	43	38	40
SEMA3B	0	0	0	13	9	13
SEMA3C	64	32	30	22	30	35
SEMA3D	10	5	9	37	30	112
SEMA3E	4	0	0	13	7	8
SEMA3F	0	0	0	4	0	30
SEMA3G	1	5	1	6	7	46
SEMA4A	74	62	60	1	7	3
SEMA4B	24	28	30	13	27	30
SEMA4C	40	42	34	63	79	61
SEMA4D	579	637	562	680	613	586
SEMA4F	4	7	3	0	0	0
SEMA4G	0	0	0	0	4	0
SEMA5A	0	0	2	1	7	3
SEMA5B	0	0	0	0	0	3
SEMA6A	2	1	3	1	9	8
SEMA6B	37	35	30	0	0	0
SEMA6C	7	5	3	9	0	8
SEMA6D	2	2	0	19	12	51
SEMA7A	15	9	17	25	18	13
SEMG1	0	0	0	0	0	0
SEMG2	0	0	0	0	0	0
SENP1	102	87	90	147	168	185
SENP2	125	105	138	182	170	154
SENP3	39	39	61	45	46	75
SENP3-EIF4A1	0	0	0	0	0	0
SENP5	76	69	82	95	82	84
SENP6	439	467	397	640	525	684
SENP7	327	325	302	539	452	562
SENP8	9	4	2	9	2	3
SEPHS1	67	62	67	93	95	103
SEPHS2	262	231	260	199	246	291
SEPSECS	67	56	59	106	72	84
01-set	38	43	58	112	144	124
10-set	40	29	16	0	0	3
11-set	121	109	133	93	120	71
12-set	0	0	0	0	0	0
14-set	1	0	0	6	7	0
02-set	455	401	391	414	348	438
03-set	0	0	0	0	0	0
04-set	1	8	5	28	0	19
05-set	0	0	0	0	0	0
06-set	768	812	906	803	841	748
07-set	994	828	869	1003	1030	951
SEPT7P2	40	26	32	76	69	89
08-set	23	19	15	6	15	3
09-set	651	669	643	1146	1113	1226
SERAC1	20	40	25	48	43	40
SERBP1	803	756	795	783	833	909
SERF1A	0	0	0	0	0	0
SERF1B	0	0	0	0	0	0
SERF2	831	908	741	541	590	523
SERGEF	23	14	24	31	27	19
SERHL	0	0	0	0	0	0
SERHL2	0	0	0	0	0	0
SERINC1	536	537	519	613	686	778
SERINC2	4	0	2	0	0	3
SERINC3	852	835	767	800	843	734
SERINC4	0	1	0	6	0	0
SERINC5	347	402	321	313	272	249
SERP1	837	873	772	822	922	812
SERP2	1	0	0	0	0	0
SERPINA1	26	22	30	0	2	0
SERPINA10	0	0	0	0	0	0
SERPINA11	0	0	0	0	0	0
SERPINA12	0	0	0	0	0	0
SERPINA3	0	0	0	0	0	0
SERPINA4	0	0	0	0	0	0
SERPINA5	0	0	0	0	0	0
SERPINA6	0	0	0	0	0	0
SERPINA7	0	0	0	0	0	0
SERPINA9	0	0	0	0	0	0
SERPINB1	222	257	192	134	164	94
SERPINB10	0	0	2	0	0	0
SERPINB11	0	0	0	0	0	0
SERPINB12	0	0	0	0	0	0
SERPINB13	2	0	11	19	30	61
SERPINB2	49	52	79	84	183	40
SERPINB3	0	0	0	0	0	0
SERPINB4	0	0	0	0	0	0
SERPINB5	0	0	0	0	0	3
SERPINB6	48	48	62	37	35	3
SERPINB7	0	0	0	0	0	0
SERPINB8	72	73	62	4	27	0

SERPINB9	258	319	296	288	263	224
SERPINC1	0	0	0	6	0	0
SERPIND1	0	0	0	0	0	0
SERPINE1	0	2	3	6	2	3
SERPINE2	5	12	12	6	12	0
SERPINE3	0	0	0	0	0	0
SERPINF1	15	30	18	1	0	0
SERPINF2	6	0	1	0	0	8
SERPING1	177	231	172	0	4	0
SERPINH1	26	33	29	16	15	24
SERPINI1	17	20	12	45	27	79
SERPINI2	0	0	0	0	0	0
SERTAD1	46	46	52	6	21	8
SERTAD2	133	111	137	136	113	89
SERTAD3	30	43	25	6	12	8
SERTAD4	13	6	1	69	65	89
SERTM1	0	0	0	0	0	0
SESN1	100	94	108	187	223	154
SESN2	63	88	104	74	95	94
SESN3	596	565	631	1024	995	1042
SESTD1	92	97	103	76	72	107
SET	841	753	753	916	930	973
SETBP1	48	47	39	63	87	117
SETD1A	39	58	79	76	75	66
SETD1B	261	297	350	419	387	397
SETD2	469	416	420	606	537	654
SETD3	192	170	158	153	137	213
SETD4	35	31	31	37	12	35
SETD5	644	670	737	1204	1022	1256
SETD6	29	26	31	43	46	30
SETD7	94	97	95	76	103	79
SETD9	20	17	12	4	4	8
SETDB1	59	71	63	82	54	51
SETDB2	190	178	178	157	144	199
SETMAR	0	6	5	0	7	3
SETX	1106	816	988	680	694	565
SEZ6	0	1	0	37	21	51
SEZ6L	2	0	0	1	0	0
SEZ6L2	0	0	0	4	0	8
SF1	666	686	721	980	916	949
SF3A1	520	604	566	566	699	490
SF3A2	12	15	16	13	30	40
SF3A3	174	177	147	221	223	182
SF3B1	1114	928	1013	1564	1256	1473
SF3B2	470	448	481	752	643	675
SF3B3	110	117	179	206	193	207
SF3B4	47	39	32	53	52	61
SF3B5	349	435	464	315	401	337
SF11	44	52	61	84	49	40
SFMBT1	74	76	96	147	127	162
SFMBT2	102	93	69	187	174	173
SFN	0	0	0	6	0	8
SFPQ	998	1032	966	1499	1368	1571
SFR1	21	19	26	16	18	3
SFRP1	0	0	0	0	2	0
SFRP2	0	0	0	0	0	0
SFRP4	5	0	1	16	24	51
SFRP5	0	0	1	0	0	0
SFSWAP	303	300	336	509	440	558
SFT2D1	121	125	104	66	62	51
SFT2D2	438	402	379	234	242	275
SFT2D3	54	43	54	58	57	46
SFTA1P	0	0	0	0	0	0
SFTA2	0	0	0	0	0	0
SFTA3	0	0	0	0	2	0
SFTPA1	0	0	0	0	0	0
SFTPA2	0	0	0	0	0	0
SFTPB	0	0	0	0	2	0
SFTPC	0	0	0	0	0	0
SFTPD	0	0	0	0	0	0
SFXN1	166	179	158	340	297	369
SFXN2	9	12	15	34	24	3
SFXN3	36	47	46	66	43	8
SFXN4	42	38	41	13	21	8
SFXN5	14	9	24	9	9	8
SGCA	0	0	0	0	0	0
SGCB	19	9	15	19	15	0
SGCD	15	16	21	60	49	107
SGCE	6	4	2	6	4	13
SGCG	0	0	0	0	0	0
SGCZ	0	0	0	0	0	0
SGIP1	1	5	2	16	18	40
SGK1	448	466	378	60	35	56
SGK2	0	0	0	1	0	3
SGK3	213	185	159	84	72	162
SGMS1	162	155	167	123	131	124
SGMS2	35	30	23	0	2	0
SGPL1	104	136	133	48	84	56
SGPP1	163	175	169	143	140	124
SGPP2	4	4	3	0	2	0
SGSH	30	28	37	4	38	0
SGSM1	9	5	6	0	0	0
SGSM2	85	102	124	112	144	121
SGSM3	28	24	29	31	33	30
SGTA	63	81	117	117	115	117
SGTB	147	133	106	151	147	147
SH2B1	219	272	336	410	350	325
SH2B2	9	8	9	4	0	0
SH2B3	165	139	147	45	67	51
SH2D1A	326	289	254	515	604	490
SH2D1B	101	93	109	182	210	176
SH2D2A	88	127	96	87	177	56
SH2D3A	11	12	15	13	15	35

SH2D3C	38	38	44	56	49	51
SH2D4A	0	0	0	0	0	0
SH2D4B	0	0	0	6	0	30
SH2D5	0	0	0	0	0	0
SH2D6	0	0	0	0	0	0
SH2D7	0	0	0	0	0	0
SH3BGR	0	0	0	0	0	0
SH3BGR_L	492	473	507	315	323	227
SH3BGR_L2	12	5	6	16	9	30
SH3BGR_L3	424	409	394	177	191	169
SH3BP1	129	113	151	79	82	51
SH3BP2	117	111	133	45	41	35
SH3BP4	9	13	9	0	0	0
SH3BP5	411	415	398	280	365	301
SH3BP5_L	20	11	14	34	33	8
SH3D19	0	1	0	0	0	3
SH3D21	2	5	0	0	4	0
SH3GL1	85	81	87	40	54	35
SH3GL1P1	0	0	0	0	0	0
SH3GL1P2	0	0	0	0	0	0
SH3GL2	0	0	0	0	0	0
SH3GL3	0	0	0	0	0	0
SH3GLB1	374	363	331	418	429	486
SH3GLB2	31	54	52	19	35	24
SH3KBP1	796	750	707	837	879	801
SH3PXD2A	44	65	74	161	111	220
SH3PXD2B	15	14	16	0	4	0
SH3RF1	19	9	20	0	2	0
SH3RF2	0	0	0	0	0	8
SH3RF3	2	4	2	13	21	24
SH3TC1	49	67	52	37	43	19
SH3TC2	1	2	0	25	7	0
SH3YL1	92	80	76	171	142	139
SHANK1	0	0	0	0	0	0
SHANK2	0	2	0	1	2	24
SHANK3	0	0	0	0	0	0
SHARPIN	20	13	16	16	9	3
SHB	22	28	21	0	0	0
SHBG	0	0	0	0	0	0
SHC1	76	90	95	51	69	51
SHC2	0	2	2	1	0	0
SHC3	0	2	0	13	4	30
SHC4	0	0	0	6	7	30
SHCBP1	1	7	6	25	21	30
SHCBP1_L	0	0	0	0	0	0
SHD	0	0	1	0	0	0
SHE	0	0	0	0	4	3
SHF	0	2	2	13	2	3
SHH	0	0	0	0	0	0
SHISA2	1	1	2	6	2	0
SHISA3	0	4	0	0	4	0
SHISA4	0	0	0	0	0	0
SHISA5	310	368	387	397	413	362
SHISA6	0	0	0	0	0	0
SHISA7	0	0	0	0	0	0
SHISA8	0	1	0	0	0	0
SHISA9	0	0	0	0	0	0
SHKBP1	65	70	74	31	30	3
SHMT1	15	12	11	0	4	0
SHMT2	52	58	48	79	75	56
SHOC2	370	375	301	317	387	400
SHOX	1	1	6	16	2	8
SHOX2	1	5	1	0	4	0
SHPK	2	4	5	0	0	8
SHPRH	200	203	238	230	225	337
SHQ1	47	63	58	58	46	3
SHROOM1	2	4	1	0	0	0
SHROOM2	0	0	0	0	0	0
SHROOM3	1	1	1	25	7	24
SHROOM4	0	0	0	0	0	3
SI	0	0	2	0	0	0
SIAE	6	7	11	16	4	13
SIAH1	34	37	34	51	38	35
SIAH2	139	150	122	129	137	179
SIAH3	0	0	0	0	0	0
SIDT1	18	12	17	31	33	19
SIDT2	106	141	107	58	54	40
SIGIRR	64	57	61	69	46	66
SIGLEC1	14	21	16	0	0	0
SIGLEC10	18	15	8	6	0	0
SIGLEC11	0	0	0	6	2	8
SIGLEC12	6	5	6	0	4	13
SIGLEC14	28	28	20	0	0	0
SIGLEC15	12	0	2	1	9	8
SIGLEC16	7	4	3	0	0	0
SIGLEC5	7	7	14	0	0	0
SIGLEC6	0	0	0	0	0	0
SIGLEC7	24	40	22	19	21	46
SIGLEC8	0	0	0	0	0	0
SIGLEC9	46	52	32	0	0	13
SIGMAR1	23	12	24	1	9	13
SIK1	0	0	0	0	0	0
SIK2	76	76	71	76	77	75
SIK3	139	105	130	129	151	139
SIKE1	170	186	206	175	166	143
SIL1	50	50	46	16	18	24
SIM1	1	0	0	0	0	3
SIM2	0	0	0	0	2	3
SIN3A	206	223	215	304	252	297
SIN3B	67	88	75	114	92	75
SIPA1	59	49	57	34	41	30
SIPA1L1	107	114	94	184	164	162
SIPA1L2	70	83	72	43	57	56

SIPA1L3	47	65	62	69	62	61
SIRPA	550	673	706	48	82	61
SIRPB1	54	58	63	0	0	3
SIRPB2	6	2	0	0	0	0
SIRPD	0	0	0	0	0	0
SIRPG	15	17	21	13	0	3
SIRT1	225	231	222	187	227	182
SIRT2	39	50	30	13	27	13
SIRT3	17	20	22	22	30	0
SIRT4	6	6	1	9	0	0
SIRT5	69	74	89	129	111	66
SIRT6	19	23	28	6	21	19
SIRT7	130	130	157	117	140	84
SIT1	92	81	83	98	135	121
SIVA1	143	175	203	232	236	237
SIX1	1	0	3	1	12	8
SIX2	0	0	0	0	0	0
SIX3	0	1	0	0	7	19
SIX4	0	0	0	0	0	0
SIX5	0	1	3	6	2	3
SIX6	0	0	0	0	0	0
SKA1	0	1	0	0	0	0
SKA2	77	84	69	58	57	30
SKA3	5	2	5	1	2	0
SKAP1	178	178	186	280	295	267
SKAP2	623	601	525	298	257	294
SKI	263	283	297	261	263	264
SKIL	462	409	432	276	261	359
SKIV2L	59	45	45	93	111	40
SKOR1	0	0	0	6	0	3
SKP1	471	533	515	512	542	388
SKP2	42	39	40	76	57	51
SLA	289	257	309	534	535	495
SLA2	90	102	103	60	113	40
SLAIN1	38	31	42	72	43	94
SLAIN2	400	382	381	389	413	447
SLAMF1	65	66	88	179	174	124
SLAMF6	62	90	71	84	69	79
SLAMF7	859	805	816	182	259	182
SLAMF8	145	182	195	4	0	3
SLAMF9	0	0	0	0	0	0
SLBP	224	215	172	192	183	169
SLC10A1	0	0	0	0	0	0
SLC10A2	0	0	0	0	0	0
SLC10A3	14	37	28	9	24	0
SLC10A4	0	1	0	0	0	0
SLC10A5	0	0	1	1	0	3
SLC10A6	0	0	0	0	0	0
SLC10A7	40	55	42	25	30	51
SLC11A1	19	24	29	13	21	8
SLC11A2	161	153	199	53	90	84
SLC12A1	0	0	0	0	9	13
SLC12A2	143	134	132	149	159	151
SLC12A3	0	1	0	0	0	0
SLC12A4	11	11	11	0	4	3
SLC12A5	0	0	0	0	0	0
SLC12A6	215	200	166	280	288	258
SLC12A7	90	86	88	112	103	103
SLC12A8	0	1	1	0	2	8
SLC12A9	44	52	47	40	49	19
SLC13A1	12	9	5	34	15	40
SLC13A2	0	0	0	0	0	0
SLC13A3	0	0	0	37	7	71
SLC13A4	0	0	0	0	0	0
SLC13A5	0	0	0	0	0	3
SLC14A1	7	9	7	13	18	13
SLC14A2	1	0	0	0	4	8
SLC15A1	0	0	0	0	2	8
SLC15A2	10	14	12	16	7	13
SLC15A3	219	234	230	13	27	13
SLC15A4	302	270	240	243	238	245
SLC15A5	0	0	1	0	0	0
SLC16A1	82	102	89	76	90	75
SLC16A10	22	21	23	45	57	66
SLC16A11	1	0	0	0	0	0
SLC16A12	0	0	0	0	0	0
SLC16A13	0	0	0	0	0	0
SLC16A14	1	0	0	0	0	0
SLC16A2	0	0	0	0	0	0
SLC16A3	125	141	182	4	43	0
SLC16A4	4	1	3	40	27	71
SLC16A5	9	8	8	0	0	0
SLC16A6	162	158	149	72	65	107
SLC16A7	178	155	157	175	185	207
SLC16A8	0	0	0	0	0	0
SLC16A9	2	1	0	0	2	13
SLC17A1	2	1	0	1	0	0
SLC17A2	0	0	0	0	0	0
SLC17A3	0	0	0	1	0	0
SLC17A4	0	4	0	1	2	24
SLC17A5	65	58	61	56	24	19
SLC17A6	5	2	5	9	0	19
SLC17A7	0	0	0	1	0	8
SLC17A8	0	0	0	0	0	8
SLC17A9	17	16	20	13	2	8
SLC18A1	1	0	0	0	0	3
SLC18A2	9	2	3	0	0	0
SLC18A3	0	0	0	0	0	0
SLC19A1	13	14	11	1	4	0
SLC19A2	9	11	13	1	0	0
SLC19A3	0	0	0	0	0	0
SLC1A1	0	0	0	0	0	0
SLC1A2	5	0	7	28	4	13

SLC1A3	78	70	74	6	4	24
SLC1A4	59	57	53	134	106	121
SLC1A5	101	102	112	9	30	8
SLC1A6	0	0	0	4	4	0
SLC1A7	0	1	2	0	0	0
SLC20A1	423	421	490	333	268	335
SLC20A2	59	47	45	110	72	154
SLC22A1	4	0	2	9	4	8
SLC22A10	0	0	0	0	0	0
SLC22A11	0	0	0	0	0	3
SLC22A12	0	0	0	0	0	0
SLC22A13	0	0	0	1	0	0
SLC22A14	0	0	0	1	7	13
SLC22A15	41	54	39	4	9	0
SLC22A16	4	1	2	0	0	0
SLC22A17	1	1	0	0	0	0
SLC22A18	13	12	21	0	2	3
SLC22A18AS	2	0	0	16	9	13
SLC22A2	0	0	2	0	9	0
SLC22A23	14	13	12	19	24	30
SLC22A24	0	0	0	1	0	0
SLC22A25	0	0	0	0	0	3
SLC22A3	0	0	0	0	0	8
SLC22A31	0	0	0	0	0	0
SLC22A4	2	4	1	0	0	0
SLC22A5	29	23	22	13	27	8
SLC22A6	0	0	0	0	0	0
SLC22A7	0	0	0	0	0	0
SLC22A8	0	0	0	0	0	0
SLC22A9	0	0	0	0	0	0
SLC23A1	0	0	0	4	2	0
SLC23A2	274	301	263	139	142	132
SLC23A3	0	0	3	1	4	0
SLC24A1	13	13	17	16	12	30
SLC24A2	0	0	0	1	0	0
SLC24A3	5	2	7	4	2	3
SLC24A4	6	6	3	1	0	3
SLC24A5	1	1	1	0	7	3
SLC25A1	19	14	16	1	9	0
SLC25A10	0	0	0	0	0	0
SLC25A11	82	80	89	13	41	13
SLC25A12	29	19	20	37	21	35
SLC25A13	45	50	43	28	21	19
SLC25A14	40	42	31	28	62	24
SLC25A15	30	34	15	31	27	24
SLC25A16	41	32	42	34	24	56
SLC25A17	25	35	31	9	43	24
SLC25A18	0	0	0	0	0	0
SLC25A19	41	52	40	6	4	19
SLC25A2	0	0	0	0	0	0
SLC25A20	59	47	39	45	43	8
SLC25A21	0	0	0	0	0	0
SLC25A22	15	14	18	6	2	8
SLC25A23	2	6	7	4	9	8
SLC25A24	323	350	316	79	115	61
SLC25A25	40	35	32	22	12	35
SLC25A26	48	69	76	74	87	84
SLC25A27	1	0	1	0	0	0
SLC25A28	61	70	63	79	62	30
SLC25A29	23	39	23	13	2	13
SLC25A3	627	589	552	648	682	647
SLC25A30	83	83	65	53	46	56
SLC25A31	0	0	0	0	0	0
SLC25A32	23	17	24	13	27	19
SLC25A33	31	34	29	53	35	24
SLC25A34	0	2	1	9	2	3
SLC25A35	5	4	0	0	0	0
SLC25A36	276	324	307	444	436	453
SLC25A37	178	141	190	110	127	188
SLC25A38	49	61	67	119	111	71
SLC25A39	40	33	44	45	38	46
SLC25A4	10	9	8	4	7	0
SLC25A40	174	121	123	74	72	61
SLC25A41	0	0	0	0	0	0
SLC25A42	74	86	101	177	137	188
SLC25A43	38	34	51	4	7	0
SLC25A44	117	102	93	136	120	128
SLC25A45	19	32	35	28	46	35
SLC25A46	235	244	218	274	272	291
SLC25A47	0	0	0	0	0	0
SLC25A48	0	0	0	0	0	0
SLC25A5	491	487	389	300	338	279
SLC25A5-AS1	14	12	12	51	38	51
SLC25A6	523	546	567	509	567	444
SLC26A1	0	0	0	0	0	0
SLC26A10	0	0	0	0	0	0
SLC26A11	154	151	126	100	117	79
SLC26A2	203	197	190	87	131	79
SLC26A3	0	0	0	1	2	0
SLC26A4	2	0	0	4	21	56
SLC26A5	0	0	0	1	4	3
SLC26A6	15	31	36	4	7	3
SLC26A7	2	0	5	43	33	46
SLC26A8	1	0	0	0	4	0
SLC26A9	0	0	0	0	0	0
SLC27A1	15	12	13	4	9	24
SLC27A2	1	0	3	1	7	0
SLC27A3	114	141	141	40	27	24
SLC27A4	14	23	24	4	0	0
SLC27A5	2	5	5	4	4	0
SLC27A6	0	0	0	0	0	0
SLC28A1	0	0	0	9	0	0
SLC28A2	0	0	0	0	0	0

SLC28A3	1	0	1	0	0	0
SLC29A1	11	6	9	0	0	0
SLC29A2	4	8	5	6	0	0
SLC29A3	31	52	36	1	9	0
SLC29A4	0	0	0	0	0	0
SLC2A1	97	74	97	143	159	98
SLC2A10	0	0	1	0	0	0
SLC2A11	17	24	16	51	30	24
SLC2A12	0	1	0	0	0	0
SLC2A13	84	68	51	40	41	19
SLC2A14	1	0	0	9	4	35
SLC2A2	0	0	0	1	2	0
SLC2A3	769	912	916	590	863	560
SLC2A4	0	0	0	0	0	0
SLC2A4RG	119	111	141	93	97	61
SLC2A5	11	5	5	0	0	0
SLC2A6	13	25	15	1	7	13
SLC2A7	0	0	0	0	0	0
SLC2A8	19	21	31	0	4	0
SLC2A9	6	5	6	16	2	0
SLC30A1	244	254	255	90	103	182
SLC30A10	0	0	0	0	0	0
SLC30A2	0	0	0	0	0	0
SLC30A3	0	0	0	0	0	3
SLC30A4	17	22	9	22	21	8
SLC30A5	127	120	109	108	153	112
SLC30A6	66	49	57	82	90	136
SLC30A7	238	252	257	171	214	267
SLC30A8	0	1	1	6	4	24
SLC30A9	69	84	82	117	137	84
SLC31A1	159	174	144	16	24	3
SLC31A2	165	182	172	6	15	13
SLC32A1	0	0	2	1	4	3
SLC33A1	167	165	147	259	232	258
SLC34A1	0	0	0	0	0	0
SLC34A2	0	0	0	0	0	0
SLC34A3	0	0	0	0	0	0
SLC35A1	133	147	111	84	117	30
SLC35A2	48	60	37	263	181	337
SLC35A3	119	111	124	112	133	89
SLC35A4	34	35	36	40	15	30
SLC35A5	124	100	71	28	41	19
SLC35B1	157	171	165	182	133	151
SLC35B2	32	34	41	34	35	30
SLC35B3	111	114	104	161	166	188
SLC35B4	49	41	24	28	21	19
SLC35C1	38	31	39	19	27	3
SLC35C2	111	102	74	100	108	66
SLC35D1	63	73	69	60	87	66
SLC35D2	52	72	52	16	49	30
SLC35D3	0	0	0	0	0	3
SLC35E1	217	204	164	184	223	203
SLC35E2B	65	62	65	132	97	132
SLC35E3	165	179	154	127	115	139
SLC35E4	6	5	3	4	4	8
SLC35F1	2	0	1	4	0	3
SLC35F2	19	12	13	25	27	8
SLC35F3	0	2	0	0	0	0
SLC35F4	4	0	0	0	0	0
SLC35F5	42	56	54	93	77	46
SLC35G1	18	6	13	9	4	0
SLC35G3	0	4	0	48	27	139
SLC35G5	0	0	1	0	0	3
SLC35G6	0	0	0	0	0	0
SLC36A1	137	129	149	16	9	30
SLC36A2	0	0	0	0	0	0
SLC36A3	0	0	0	0	0	0
SLC36A4	130	107	100	34	72	24
SLC37A1	78	60	52	25	35	19
SLC37A2	47	34	22	0	0	0
SLC37A3	98	87	108	155	117	139
SLC37A4	37	39	71	28	54	13
SLC38A1	891	920	873	1307	1228	1322
SLC38A10	90	90	91	90	65	19
SLC38A11	5	9	7	28	24	40
SLC38A2	661	555	546	394	493	372
SLC38A3	0	0	0	0	0	0
SLC38A4	0	0	0	0	2	0
SLC38A5	5	9	13	6	7	3
SLC38A6	145	165	162	66	72	107
SLC38A7	36	42	30	19	7	13
SLC38A8	0	0	0	0	0	0
SLC38A9	36	28	44	53	46	117
SLC39A1	76	106	109	56	77	89
SLC39A10	195	151	142	768	491	1095
SLC39A11	50	47	53	16	12	13
SLC39A12	0	0	0	0	0	0
SLC39A13	75	70	104	60	57	61
SLC39A14	23	15	12	16	15	30
SLC39A2	0	0	0	0	0	0
SLC39A3	10	22	8	9	7	8
SLC39A4	2	2	2	0	0	0
SLC39A5	0	0	0	0	0	0
SLC39A6	324	281	275	248	252	192
SLC39A7	155	209	219	206	217	203
SLC39A8	84	104	88	69	84	51
SLC39A9	119	148	154	169	181	192
SLC3A1	0	0	0	9	0	8
SLC3A2	139	158	157	211	208	258
SLC40A1	59	52	44	25	46	24
SLC41A1	63	45	46	28	54	30
SLC41A2	25	22	22	1	4	8
SLC41A3	35	22	28	16	21	8

SLC43A1	23	14	20	56	30	98
SLC43A2	320	368	356	110	117	139
SLC43A3	245	266	260	66	100	112
SLC44A1	402	393	344	173	212	143
SLC44A2	46	52	48	119	103	94
SLC44A3	0	0	0	0	0	0
SLC44A4	0	0	0	0	0	0
SLC44A5	6	0	3	0	2	0
SLC45A1	1	0	0	0	0	0
SLC45A2	0	0	0	0	0	0
SLC45A3	56	55	67	119	95	154
SLC45A4	39	34	47	28	12	0
SLC46A1	13	11	9	0	0	0
SLC46A2	0	0	0	0	0	0
SLC46A3	50	60	50	37	27	13
SLC47A1	0	1	0	1	2	0
SLC47A2	0	0	0	1	2	3
SLC48A1	10	16	15	6	2	0
SLC4A1	6	0	0	13	4	35
SLC4A10	7	7	12	51	52	46
SLC4A11	0	0	0	0	0	0
SLC4A1AP	167	127	123	141	140	136
SLC4A2	42	26	24	9	18	3
SLC4A3	0	0	0	0	0	0
SLC4A4	11	13	17	22	9	13
SLC4A5	1	4	5	16	2	8
SLC4A7	515	446	511	668	551	579
SLC4A8	12	11	11	16	30	56
SLC4A9	0	0	0	0	0	0
SLC50A1	75	92	99	43	52	30
SLC5A1	0	0	0	0	0	0
SLC5A10	0	0	0	0	0	0
SLC5A11	0	0	0	19	12	24
SLC5A12	2	0	6	22	7	24
SLC5A2	0	0	0	0	0	0
SLC5A3	213	216	301	298	305	317
SLC5A4	0	0	0	0	0	0
SLC5A5	0	0	1	0	4	19
SLC5A6	28	24	23	6	2	3
SLC5A7	0	0	0	0	2	8
SLC5A8	0	0	1	4	12	13
SLC5A9	0	0	0	0	0	0
SLC6A1	0	0	0	0	0	0
SLC6A10P	0	0	0	0	0	0
SLC6A11	0	0	0	0	0	0
SLC6A12	10	8	5	0	7	0
SLC6A13	0	0	0	9	9	24
SLC6A14	0	0	0	0	0	0
SLC6A15	1	0	0	0	0	0
SLC6A16	12	11	11	16	2	3
SLC6A17	0	0	0	1	0	3
SLC6A18	0	0	0	0	0	0
SLC6A19	0	0	0	0	0	0
SLC6A2	0	0	0	1	0	0
SLC6A20	2	0	0	13	12	13
SLC6A3	0	0	0	0	0	8
SLC6A4	0	0	0	1	2	0
SLC6A5	0	0	0	0	0	3
SLC6A6	257	333	307	175	174	103
SLC6A7	0	0	0	0	0	0
SLC6A8	0	1	0	0	0	0
SLC6A9	0	0	0	0	0	0
SLC7A1	95	124	82	84	90	84
SLC7A10	0	0	0	0	0	0
SLC7A11	624	702	700	121	214	143
SLC7A13	0	0	0	0	0	0
SLC7A14	2	7	6	28	18	46
SLC7A2	0	0	1	0	0	0
SLC7A3	0	0	0	0	0	0
SLC7A4	0	0	0	0	0	0
SLC7A5	72	94	88	157	159	158
SLC7A5P1	0	0	0	0	0	0
SLC7A5P2	0	0	0	0	0	0
SLC7A6	58	47	58	93	67	112
SLC7A6OS	98	107	136	230	179	207
SLC7A7	306	298	234	31	46	30
SLC7A8	11	14	16	0	4	8
SLC7A9	0	0	0	0	0	0
SLC8A1	461	357	393	4	9	19
SLC8A2	0	0	0	0	4	3
SLC8A3	0	0	0	0	0	0
SLC9A1	20	22	26	6	4	13
SLC9A2	1	0	0	0	0	0
SLC9A3	0	0	0	0	0	0
SLC9A3R1	161	105	108	157	197	165
SLC9A3R2	0	0	0	0	0	0
SLC9A4	0	0	0	1	0	0
SLC9A5	0	0	0	16	2	30
SLC9A6	123	148	116	84	97	75
SLC9A7	48	56	43	34	49	40
SLC9A7P1	0	1	0	0	0	0
SLC9A8	38	35	52	34	46	30
SLC9A9	49	49	31	34	18	30
SLC9B1	9	4	0	16	7	35
SLC9B2	22	22	25	34	30	13
SLCO1A2	0	0	2	6	0	3
SLCO1B1	1	0	2	0	4	30
SLCO1B3	0	0	0	0	0	0
SLCO1B7	0	0	0	0	0	0
SLCO1C1	0	1	0	1	0	0
SLCO2A1	0	0	0	0	0	0
SLCO2B1	44	42	60	0	0	0
SLCO3A1	276	265	328	153	149	128

SLC04A1	21	31	24	74	84	89
SLC04C1	19	21	17	6	7	24
SLC05A1	10	5	6	4	0	3
SLC06A1	0	1	0	0	0	0
SLFN11	170	168	142	37	49	40
SLFN12	55	55	59	4	24	3
SLFN12L	177	158	218	266	195	237
SLFN13	51	56	43	45	60	30
SLFN14	0	0	0	0	0	0
SLFN5	1130	1052	1041	1682	1542	1588
SLFNL1	0	0	0	0	0	0
SLIRP	289	297	255	173	164	192
SLIT1	1	0	0	0	0	0
SLIT2	4	9	1	16	21	19
SLIT2-IT1	0	0	0	0	0	0
SLIT3	0	2	0	9	4	8
SLITRK1	0	1	0	0	0	0
SLITRK2	0	0	0	0	0	0
SLITRK3	0	0	0	0	0	0
SLITRK4	9	13	8	19	24	24
SLITRK5	2	4	2	16	9	19
SLITRK6	0	0	1	0	4	3
SLK	486	438	535	360	387	376
SLMAP	279	215	217	263	227	285
SLN	0	0	0	0	0	0
SLPI	0	0	0	1	0	0
SLTM	1313	1177	1247	1733	1558	1759
SLU7	649	593	640	712	774	837
SLURP1	0	0	0	0	0	0
SLX1A	0	0	0	0	0	0
SLX1A-SULT1A3	0	0	0	0	0	0
SLX1B	0	0	0	0	0	0
SLX1B-SULT1A4	0	0	0	0	0	0
SLX4	23	26	25	6	0	0
SMAD1	6	4	5	6	2	3
SMAD2	358	355	317	317	279	305
SMAD3	273	254	281	622	553	550
SMAD4	215	238	233	304	323	294
SMAD5	230	213	251	217	249	216
SMAD5-AS1	0	0	0	0	0	0
SMAD6	17	30	17	40	18	30
SMAD7	209	209	219	234	225	210
SMAD9	0	0	1	0	0	3
SMAGP	4	8	13	13	4	0
SMAP1	296	268	330	261	279	258
SMAP2	601	562	503	811	706	815
SMARCA1	7	9	5	4	4	8
SMARCA2	803	726	855	726	722	579
SMARCA4	280	243	293	207	185	230
SMARCA5	884	856	798	1138	1136	1180
SMARCAD1	166	209	186	184	214	158
SMARCAL1	34	26	29	22	35	13
SMARCB1	52	52	65	43	38	30
SMARCC1	794	786	746	898	805	824
SMARCC2	428	388	437	437	470	379
SMARCD1	54	52	63	43	49	61
SMARCD2	87	117	99	90	97	51
SMARCD3	11	11	20	6	12	0
SMARCE1	74	42	57	153	117	210
SMC1A	733	726	709	804	730	738
SMC1B	7	11	3	37	57	89
SMC2	309	264	291	259	246	210
SMC3	891	801	760	879	854	902
SMC4	794	706	640	866	760	794
SMC5	378	346	346	315	300	261
SMC6	394	357	375	323	314	301
SMCHD1	1721	1558	1769	1890	1769	1906
SMCP	0	0	0	0	0	0
SMCR5	0	0	0	4	7	0
SMCR8	184	202	239	245	232	312
SMG1	274	280	333	317	304	254
SMG5	17	32	34	9	7	0
SMG6	56	69	68	108	103	79
SMG7	77	83	89	139	131	124
SMG8	7	22	14	13	9	13
SMG9	30	32	32	19	12	19
SMN1	20	24	17	45	33	66
SMN2	6	6	3	22	21	51
SMNDC1	270	261	252	276	300	332
SMO	0	0	0	6	0	0
SMOC1	0	0	0	4	2	3
SMOC2	0	0	0	0	0	0
SMOX	0	0	0	0	2	0
SMPD1	65	66	54	31	52	46
SMPD2	2	9	11	1	9	0
SMPD3	17	14	12	1	0	3
SMPD4	99	117	87	163	174	147
SMPDL3A	14	13	18	0	0	0
SMPDL3B	0	0	0	0	2	0
SMPX	0	0	0	0	0	0
SMR3A	0	0	0	0	0	0
SMR3B	0	0	0	0	0	0
SMS	165	144	189	82	115	103
SMTN	0	2	0	0	0	0
SMTNL1	0	0	0	0	0	0
SMTNL2	0	0	0	0	0	0
SMU1	102	132	136	224	203	230
SMUG1	20	25	25	9	18	0
SMURF1	20	20	24	28	24	46
SMURF2	124	133	146	159	179	176
SMYD1	0	0	0	0	0	0
SMYD2	88	78	84	48	46	19
SMYD3	41	40	47	43	52	71

SMYD4	24	21	25	34	49	56
SMYD5	2	2	5	0	0	0
SNAI1	2	2	2	40	7	40
SNAI2	1	0	0	0	0	0
SNAI3	42	43	41	37	21	35
SNAP23	361	314	307	245	214	227
SNAP25	0	0	0	0	0	0
SNAP29	162	174	155	121	155	117
SNAP47	50	52	51	53	62	19
SNAP91	0	0	0	0	0	0
SNAPC1	78	66	72	87	82	35
SNAPC2	17	24	12	6	4	8
SNAPC3	110	91	77	69	72	35
SNAPC4	19	21	26	13	33	35
SNAPC5	46	55	52	53	52	3
SNAPIN	92	100	72	56	72	35
SNCA	37	28	31	34	21	51
SNCAIP	0	2	0	0	0	0
SNCB	0	0	0	0	0	0
SNCG	0	0	0	0	0	0
SND1	192	227	197	127	195	143
SNED1	5	7	0	0	15	13
SNF8	111	107	111	100	113	84
SNHG1	224	319	333	491	564	514
SNHG10	19	8	11	16	27	8
SNHG11	0	4	2	19	9	3
SNHG12	144	121	108	195	187	179
SNHG15	32	32	44	69	67	71
SNHG3	54	58	62	87	69	121
SNHG5	1139	984	1113	1932	2322	2231
SNHG6	1521	1540	1275	2594	2583	2680
SNHG7	148	130	111	313	285	305
SNHG8	459	384	379	1246	1197	1411
SNHG9	108	95	109	261	210	267
SNIP1	115	133	120	177	199	237
SNN	108	74	61	43	43	19
SNORA1	0	0	0	0	0	0
SNORA10	0	0	0	0	0	0
SNORA11	0	0	0	0	0	0
SNORA11B	0	0	0	0	0	0
SNORA11C	0	0	0	0	0	0
SNORA11D	0	0	0	0	0	0
SNORA11E	0	0	0	0	0	0
SNORA12	60	88	54	201	214	220
SNORA13	0	0	0	0	0	0
SNORA14A	0	0	0	0	0	3
SNORA14B	0	0	0	0	0	0
SNORA15	0	0	0	0	0	0
SNORA16B	0	0	0	0	0	0
SNORA18	0	0	0	0	0	0
SNORA19	0	1	1	0	0	0
SNORA20	4	2	0	4	2	0
SNORA21	0	0	0	0	0	0
SNORA22	0	0	0	0	0	0
SNORA23	0	0	0	0	0	0
SNORA25	0	0	0	0	0	0
SNORA26	0	0	0	0	0	0
SNORA27	0	0	0	0	0	0
SNORA28	0	0	1	0	0	0
SNORA29	0	0	0	0	0	0
SNORA2A	0	0	1	0	0	0
SNORA2B	0	0	0	0	7	0
SNORA30	0	0	0	0	0	0
SNORA31	0	0	0	0	0	0
SNORA32	0	0	0	0	0	0
SNORA33	1	1	1	0	0	0
SNORA35	0	0	0	0	0	0
SNORA36A	0	0	0	0	0	0
SNORA36B	0	0	0	0	0	0
SNORA36C	0	0	0	0	0	0
SNORA37	1	0	1	0	2	0
SNORA38	0	0	0	0	0	0
SNORA38B	0	0	0	0	0	0
SNORA4	0	0	0	0	0	0
SNORA40	0	0	0	0	0	0
SNORA41	0	0	0	0	0	0
SNORA46	0	0	0	0	0	0
SNORA47	0	0	0	0	0	0
SNORA48	0	0	0	0	0	0
SNORA49	0	0	0	0	0	0
SNORA51	0	0	0	0	0	0
SNORA52	0	0	0	0	0	0
SNORA53	0	0	0	0	0	0
SNORA54	0	0	0	0	0	0
SNORA55	0	0	0	0	0	0
SNORA56	0	0	0	0	0	0
SNORA57	0	0	0	0	0	0
SNORA58	0	0	1	1	0	0
SNORA59A	0	0	0	0	0	0
SNORA59B	0	0	0	4	0	0
SNORA5A	0	0	0	0	0	0
SNORA5B	0	0	0	0	0	0
SNORA5C	0	0	0	0	0	0
SNORA6	0	0	0	0	0	0
SNORA60	0	0	0	0	0	0
SNORA62	0	0	0	0	0	0
SNORA63	0	0	0	0	0	0
SNORA64	0	0	0	0	0	0
SNORA65	0	0	0	0	0	0
SNORA66	0	0	0	0	0	0
SNORA67	0	0	0	0	0	0
SNORA68	0	0	0	0	0	0
SNORA69	0	0	0	0	0	0

SNORA70	0	0	0	0	0	0
SNORA70B	0	0	0	0	0	0
SNORA70C	0	0	0	0	0	3
SNORA70D	0	0	0	0	0	0
SNORA70E	0	0	0	0	0	0
SNORA70F	0	0	0	0	0	3
SNORA70G	0	0	0	0	0	0
SNORA71A	0	0	0	0	0	0
SNORA71B	0	0	0	0	0	0
SNORA71C	0	0	0	0	0	0
SNORA71D	0	0	0	0	0	0
SNORA72	0	1	0	1	0	0
SNORA74A	0	0	0	0	0	0
SNORA74B	0	0	0	0	0	0
SNORA75	0	0	0	0	0	0
SNORA77	0	0	0	0	0	0
SNORA79	0	0	0	0	0	0
SNORA7A	0	0	0	0	0	0
SNORA7B	0	0	0	0	0	0
SNORA8	0	0	0	0	0	0
SNORA80B	0	0	0	0	0	0
SNORA81	0	0	0	0	0	0
SNORA84	0	0	0	0	0	0
SNORD10	0	0	0	0	0	0
SNORD100	0	0	0	0	0	0
SNORD101	0	0	0	0	0	0
SNORD102	0	0	0	0	0	0
SNORD104	11	6	1	28	21	13
SNORD105	0	0	0	0	0	0
SNORD105B	0	0	0	0	0	0
SNORD108	0	0	0	0	0	0
SNORD109A	0	0	0	0	0	0
SNORD109B	0	0	0	0	0	0
SNORD11	9	4	5	0	4	3
SNORD110	0	0	0	0	0	0
SNORD111	0	0	0	0	0	0
SNORD111B	0	0	0	0	0	0
SNORD113-1	0	0	0	0	0	0
SNORD113-2	0	0	0	0	0	0
SNORD113-4	0	0	0	0	0	0
SNORD113-5	0	0	0	0	0	0
SNORD113-6	0	0	0	0	0	0
SNORD113-7	0	0	0	0	0	0
SNORD113-9	0	0	0	0	0	0
SNORD114-1	0	0	0	0	0	0
SNORD114-10	0	0	0	0	0	0
SNORD114-11	0	0	0	0	0	0
SNORD114-12	0	0	0	0	0	0
SNORD114-13	0	0	0	0	0	0
SNORD114-14	0	0	0	0	0	0
SNORD114-15	0	0	0	0	0	0
SNORD114-16	0	0	0	0	0	0
SNORD114-17	0	0	0	0	0	0
SNORD114-18	0	0	0	0	0	0
SNORD114-19	0	0	0	0	0	0
SNORD114-2	0	0	0	0	0	0
SNORD114-20	0	0	0	0	0	0
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SNORD115-10	0	0	0	0	0	0
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SNORD115-36	0	0	0	0	0	0
SNORD115-37	0	0	0	0	0	0

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SNORD115-4	0	0	0	0	0	0
SNORD115-40	0	0	0	0	0	0
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SNORD116-19	0	0	0	0	2	0
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SNORD116-23	0	0	0	0	0	0
SNORD116-24	0	0	0	0	0	0
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SNORD116-29	0	0	0	0	0	0
SNORD116-3	0	0	0	0	0	3
SNORD116-5	0	0	0	0	0	0
SNORD116-6	0	0	0	0	0	0
SNORD116-7	0	0	0	0	0	0
SNORD116-8	0	0	0	0	0	0
SNORD116-9	0	0	0	0	0	0
SNORD117	0	0	0	0	0	0
SNORD118	2	2	6	9	2	3
SNORD12	0	0	0	0	0	0
SNORD121A	0	0	0	0	0	0
SNORD121B	0	0	0	0	0	0
SNORD123	0	0	0	0	0	0
SNORD124	0	0	0	0	0	0
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SNORD126	0	0	0	0	0	0
SNORD127	0	0	0	0	0	0
SNORD128	0	0	0	0	4	0
SNORD12C	0	0	0	0	7	0
SNORD15A	0	0	0	0	0	0
SNORD15B	0	0	0	4	0	0
SNORD16	0	0	0	0	0	0
SNORD17	0	1	1	9	7	19
SNORD18A	0	0	0	0	0	0
SNORD18B	0	0	0	0	0	0
SNORD18C	0	0	0	0	0	0
SNORD19	0	0	0	0	0	0
SNORD19B	0	0	0	0	0	0
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SNORD23	0	0	0	0	0	0
SNORD24	0	0	0	0	0	0
SNORD32A	0	0	0	0	0	0
SNORD32B	0	0	0	0	0	0
SNORD33	0	0	0	0	0	0
SNORD34	0	0	0	0	0	0
SNORD35A	0	0	0	0	0	0
SNORD35B	0	0	0	0	0	0
SNORD36A	0	0	0	0	0	0
SNORD36B	0	0	0	0	0	0
SNORD36C	0	1	0	0	0	0
SNORD37	0	0	0	0	0	0
SNORD38A	4	0	0	1	0	3
SNORD38B	0	0	0	0	0	0
SNORD41	0	0	0	0	0	0
SNORD42A	0	0	0	0	0	0
SNORD42B	2	2	0	0	2	0
SNORD43	0	0	0	0	0	0
SNORD45A	0	0	0	0	0	0
SNORD45B	0	0	0	0	0	0
SNORD45C	0	0	0	0	0	0
SNORD46	0	0	0	6	21	8
SNORD48	0	0	0	0	0	0
SNORD4A	0	1	0	0	0	0
SNORD48	0	0	0	0	0	0
SNORD5	0	0	0	0	0	0
SNORD51	0	0	0	0	0	0
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SNORD54	0	0	0	0	0	0
SNORD55	0	0	0	0	0	0
SNORD56	0	0	0	0	0	0
SNORD56B	0	0	0	0	0	0
SNORD57	0	0	0	0	0	0
SNORD58A	0	0	0	0	0	0
SNORD58B	0	0	0	0	0	0
SNORD58C	0	0	0	0	0	0

SNORD59A	0	0	0	0	0	0
SNORD6	1	4	6	9	12	24
SNORD60	0	0	0	0	0	0
SNORD61	0	0	0	0	0	0
SNORD62A	0	0	0	0	0	0
SNORD62B	0	0	0	0	0	0
SNORD63	1	6	6	4	2	13
SNORD64	0	0	0	0	0	0
SNORD66	0	0	0	0	0	0
SNORD67	0	0	0	0	0	0
SNORD68	0	0	0	0	0	0
SNORD69	0	0	0	0	0	0
SNORD7	0	0	0	0	0	0
SNORD70	0	0	0	0	0	3
SNORD71	1	0	0	31	54	46
SNORD72	0	2	0	0	0	0
SNORD73A	0	0	0	0	0	0
SNORD8	0	0	0	0	0	0
SNORD82	0	0	0	0	0	0
SNORD83A	0	0	0	4	0	0
SNORD83B	0	0	0	0	0	0
SNORD84	0	0	0	0	0	0
SNORD86	0	0	0	0	0	0
SNORD87	0	0	0	0	0	0
SNORD88A	0	0	0	0	0	0
SNORD88B	0	0	0	0	0	0
SNORD88C	0	0	0	0	0	0
SNORD89	159	114	160	349	422	329
SNORD9	0	0	0	0	0	0
SNORD90	0	0	0	0	0	0
SNORD91A	0	0	0	0	0	0
SNORD91B	0	0	0	0	0	0
SNORD92	1	0	0	0	2	0
SNORD93	0	0	0	0	0	0
SNORD94	0	0	0	1	0	0
SNORD95	0	0	0	0	0	0
SNORD96A	0	0	0	0	0	0
SNORD96B	0	0	0	0	0	0
SNORD97	2	0	0	0	9	3
SNORD98	0	0	0	1	0	0
SNORD99	0	0	0	28	4	8
SNPH	6	7	5	6	0	0
SNRK	177	166	169	305	295	237
SNRRNP200	343	350	361	554	480	523
SNRRNP25	21	16	22	0	0	0
SNRRNP27	207	193	232	207	249	216
SNRRNP35	46	58	65	79	43	51
SNRRNP40	40	65	57	93	97	56
SNRRNP48	188	185	207	241	189	173
SNRRNP70	227	231	258	283	259	301
SNRPA	72	74	83	100	92	124
SNRPA1	60	60	55	143	133	165
SNRPB	179	184	200	271	252	291
SNRPB2	718	708	631	834	891	824
SNRPC	276	245	222	239	279	297
SNRPD1	358	378	340	354	370	359
SNRPD2	409	437	482	680	783	717
SNRPD2P2	0	0	0	0	0	0
SNRPD3	280	282	257	167	252	169
SNRPE	127	167	154	248	240	258
SNRPF	386	415	403	528	577	540
SNRPG	116	93	97	132	137	132
SNRPN	174	191	194	389	330	365
SNTA1	5	5	5	0	4	0
SNTB1	109	87	119	84	92	51
SNTB2	101	107	106	114	67	84
SNTG1	7	6	2	40	43	94
SNTG2	0	0	0	0	0	0
SNTN	0	0	1	13	9	19
SNUPN	24	20	24	16	12	19
SNURF	5	8	1	28	9	24
SNW1	281	285	291	385	433	408
SNX1	524	548	543	531	483	450
SNX10	878	847	834	79	75	61
SNX11	47	63	53	4	9	8
SNX12	140	136	123	63	62	56
SNX13	171	159	173	207	177	207
SNX14	370	399	408	387	354	405
SNX15	0	0	2	0	0	0
SNX16	47	31	41	48	38	35
SNX17	117	148	122	147	225	162
SNX18	306	258	270	139	117	139
SNX19	109	111	80	106	124	107
SNX2	285	317	314	213	177	245
SNX20	175	175	182	226	249	185
SNX21	0	1	2	0	0	0
SNX22	10	15	14	72	38	66
SNX24	44	37	44	9	7	40
SNX25	36	42	39	40	41	66
SNX27	316	315	317	161	183	173
SNX29	88	98	88	82	57	46
SNX29P1	0	0	0	0	0	0
SNX29P2	0	0	0	0	0	0
SNX3	463	451	344	232	270	271
SNX30	75	77	65	37	27	46
SNX31	1	4	5	45	33	98
SNX32	0	0	0	0	0	0
SNX33	2	2	6	9	0	3
SNX4	125	131	124	125	106	128
SNX5	433	515	481	439	436	393
SNX6	364	310	279	311	257	288
SNX7	0	1	0	0	0	0
SNX8	56	54	60	6	15	8

SNX9	148	141	151	171	217	176
SOAT1	253	260	272	239	240	254
SOAT2	0	0	0	0	0	0
SOBP	0	0	1	4	2	0
SOC51	123	108	106	79	124	98
SOC52	30	14	24	6	0	8
SOC53	137	152	204	110	115	245
SOC54	75	66	61	66	77	66
SOC55	87	74	72	66	57	71
SOC56	52	35	32	1	0	3
SOC57	113	128	123	129	108	107
SOD1	281	308	290	479	468	456
SOD2	389	404	402	114	150	145
SOD3	0	0	0	0	0	0
SOHLH1	0	0	0	0	0	3
SOHLH2	0	0	1	0	0	0
SON	2532	2372	2532	2303	2187	2408
SORBS1	4	1	5	4	15	19
SORBS2	0	5	3	40	52	51
SORBS3	21	22	16	16	12	0
SORCS1	2	0	0	13	2	0
SORCS2	0	0	0	0	2	0
SORCS3	0	0	0	0	0	0
SORD	0	7	3	0	7	0
SORL1	1055	1048	1005	1094	1160	937
SORT1	54	57	68	6	2	19
SOS1	653	530	603	777	669	602
SOS2	346	322	310	380	330	325
SOST	0	0	0	1	0	0
SOSTDC1	0	0	0	0	0	0
SOWAHA	0	0	0	0	0	0
SOWAHB	0	0	0	0	0	0
SOWAHC	78	69	71	0	12	3
SOWAHD	15	17	15	0	0	0
SOX1	0	0	0	0	0	0
SOX10	0	0	0	0	0	0
SOX11	7	8	2	13	15	61
SOX12	21	28	20	19	27	3
SOX13	0	2	8	1	15	0
SOX14	0	0	0	0	0	0
SOX15	0	0	0	0	2	0
SOX17	0	0	0	0	0	0
SOX18	0	0	0	0	0	0
SOX2	0	0	0	1	0	0
SOX2-OT	17	15	16	79	49	139
SOX21	0	0	0	0	0	0
SOX3	0	0	0	0	0	0
SOX30	0	0	0	0	0	0
SOX4	78	72	90	60	65	89
SOX5	10	4	12	16	18	19
SOX6	18	16	12	134	144	216
SOX7	2	0	3	0	2	24
SOX8	5	2	3	0	0	0
SOX9	1	4	6	9	21	35
SP1	180	154	182	136	174	162
SP100	782	759	785	683	704	770
SP110	482	449	485	525	508	579
SP140	214	198	255	248	265	237
SP140L	222	227	227	285	288	282
SP2	77	90	76	84	67	89
SP3	300	262	279	266	263	210
SP4	270	260	243	179	234	151
SP5	0	0	0	0	0	0
SP6	0	0	0	1	0	8
SP7	0	0	0	0	0	0
SP8	0	0	0	0	0	3
SP9	0	0	0	0	0	0
SPA17	0	0	1	0	0	8
SPACA1	0	0	0	0	0	0
SPACA3	0	0	0	0	0	0
SPACA4	0	0	0	0	0	0
SPACA5	0	0	0	0	0	0
SPACA5B	0	0	0	0	0	0
SPACA7	0	0	0	0	0	0
SPAG1	14	11	9	6	27	24
SPAG11A	0	0	0	0	0	0
SPAG11B	0	0	0	0	0	0
SPAG16	46	31	34	95	113	143
SPAG17	2	2	2	6	4	24
SPAG4	0	0	0	0	0	0
SPAG5	5	1	2	13	4	19
SPAG5-AS1	0	4	1	16	7	19
SPAG6	0	0	1	0	0	0
SPAG7	276	312	237	266	254	321
SPAG8	1	4	0	1	2	0
SPAG9	338	301	328	400	321	383
SPAM1	0	7	0	4	15	8
SPANXA1	0	0	0	0	0	0
SPANXA2	0	0	0	0	0	0
SPANXA2-OT1	0	0	0	0	0	0
SPANXB1	0	0	0	0	0	0
SPANXC	0	0	0	0	0	0
SPANXD	0	0	0	0	0	0
SPANXN1	0	0	0	0	0	0
SPANXN2	0	0	0	0	0	0
SPANXN3	0	0	0	0	0	0
SPANXN4	0	0	0	0	0	0
SPANXN5	0	0	0	0	0	0
SPARC	6	6	5	13	18	0
SPARCL1	0	0	1	0	0	0
SPAST	129	181	159	100	111	79
SPATA12	0	0	0	0	0	3
SPATA13	121	133	128	255	244	288

SPATA16	0	1	2	9	7	30
SPATA17	0	2	1	1	4	13
SPATA18	0	0	0	0	0	0
SPATA19	0	0	0	0	0	0
SPATA2	20	13	13	25	12	24
SPATA20	2	4	3	4	2	0
SPATA21	0	0	0	0	0	0
SPATA22	0	0	0	0	0	0
SPATA24	5	4	3	0	0	0
SPATA25	0	0	0	0	0	0
SPATA2L	2	2	1	0	0	0
SPATA3	0	0	1	0	0	8
SPATA4	0	0	0	1	0	3
SPATA5	60	46	36	63	60	71
SPATA5L1	20	11	13	9	12	19
SPATA6	11	7	3	0	4	0
SPATA7	9	6	3	1	9	19
SPATA8	0	0	0	0	0	0
SPATA9	1	1	0	0	0	3
SPATC1	0	0	1	0	0	0
SPATS1	0	0	0	0	0	0
SPATS2	42	32	37	31	49	24
SPATS2L	83	80	96	45	46	46
SPC24	0	0	1	0	0	0
SPC25	0	0	0	0	0	0
SPCS1	310	328	258	430	373	400
SPCS2	46	62	35	58	52	40
SPCS3	831	717	692	391	431	348
SPDEF	0	0	0	1	0	0
SPDYA	2	4	1	6	7	35
SPDYC	0	0	0	0	0	0
SPDYE1	0	0	0	1	0	30
SPDYE2	0	0	0	0	0	0
SPDYE3	0	0	0	0	2	0
SPDYE4	0	0	0	0	0	0
SPDYE6	0	0	0	0	0	0
SPDYE7P	0	0	0	0	0	0
SPDYE8P	0	0	0	0	0	0
SPECC1	78	82	60	45	46	89
SPECC1L	46	57	45	51	46	8
SPEF1	0	0	0	0	0	0
SPEF2	66	56	72	141	135	66
SPEG	0	1	1	4	0	0
SPEM1	0	0	0	0	0	0
SPEN	561	529	535	541	447	595
SPERT	0	0	0	0	0	0
SPESP1	0	0	0	9	0	19
SPG11	252	228	248	358	268	438
SPG21	255	239	221	95	113	71
SPG7	143	187	212	245	193	275
SPHAR	0	0	0	0	0	0
SPHK1	15	22	7	0	0	0
SPHK2	31	28	31	31	46	40
SPHKAP	2	0	0	19	15	61
SPI1	83	109	113	4	7	0
SPIB	30	32	26	34	92	30
SPIC	0	0	0	0	0	0
SPICE1	25	21	26	60	21	30
SPIN1	258	279	251	201	230	230
SPIN2A	0	0	0	0	0	0
SPIN2B	0	1	3	4	4	0
SPIN3	13	19	22	9	12	8
SPIN4	63	68	50	37	21	24
SPINK1	6	13	13	4	0	13
SPINK13	0	0	0	0	0	0
SPINK14	0	0	0	0	0	0
SPINK2	0	4	0	0	0	0
SPINK4	0	0	0	0	0	0
SPINK5	1	2	2	6	12	3
SPINK6	0	0	0	0	0	0
SPINK7	0	0	0	0	0	0
SPINK8	0	0	0	0	0	0
SPINK9	0	0	0	0	0	0
SPINT1	1	7	2	4	0	0
SPINT2	126	113	88	98	103	56
SPINT3	0	0	0	0	0	0
SPINT4	0	0	0	0	0	0
SPIRE1	54	58	65	1	7	13
SPIRE2	10	7	11	43	54	66
SPN	577	622	595	627	748	428
SPNS1	1	0	0	0	7	8
SPNS2	0	0	0	0	0	0
SPNS3	4	2	0	1	0	0
SPO11	0	0	0	0	0	0
SPOCD1	1	0	0	4	2	30
SPOCK1	0	1	0	0	12	13
SPOCK2	693	778	758	1256	1289	1193
SPOCK3	0	0	1	0	0	0
SPON1	84	76	93	180	172	158
SPON2	67	87	96	43	54	30
SPOP	482	484	464	459	558	435
SPOPL	167	144	149	139	129	154
SPP1	311	484	212	58	115	0
SPP2	0	0	0	0	0	0
SPPL2A	560	578	605	254	277	279
SPPL2B	35	37	46	90	27	35
SPPL2C	0	0	0	0	0	0
SPPL3	135	154	157	206	199	196
SPR	18	12	6	0	0	0
SPRED1	140	146	123	6	18	19
SPRED2	6	7	15	1	4	3
SPRED3	1	4	0	1	9	13
SPRN	0	0	0	0	0	0

SPRR1A	0	0	0	0	0	0
SPRR1B	0	0	0	0	0	0
SPRR2A	0	0	0	0	0	0
SPRR2B	0	0	0	0	0	0
SPRR2C	0	0	0	0	0	0
SPRR2D	0	0	0	0	0	0
SPRR2E	0	0	0	0	0	0
SPRR2F	0	0	0	0	0	0
SPRR2G	0	0	0	0	0	0
SPRR3	0	0	0	0	0	0
SPRR4	0	0	0	0	0	0
SPRY1	4	9	3	6	2	0
SPRY2	10	20	24	1	2	0
SPRY3	6	6	3	1	0	0
SPRY4	0	0	1	0	0	0
SPRYD3	75	74	77	19	49	40
SPRYD4	38	30	26	37	30	51
SPRYD7	50	57	59	45	57	40
SPSB1	1	2	1	4	0	0
SPSB2	29	31	30	22	18	51
SPSB3	54	82	99	100	75	61
SPSB4	0	0	0	0	0	0
SPTA1	2	1	5	0	0	0
SPTAN1	65	57	63	90	97	75
SPTB	0	0	0	0	0	0
SPTBN1	246	228	240	377	288	325
SPTBN2	0	0	0	0	0	0
SPTBN4	0	0	0	0	0	0
SPTBN5	0	1	3	0	0	0
SPTLC1	335	362	323	182	240	176
SPTLC2	281	285	260	219	206	173
SPTLC3	1	2	0	1	0	0
SPTSSA	134	147	128	74	60	35
SPTSSB	1	0	1	1	2	0
SPTYD1	238	210	217	298	295	355
SPZ1	0	0	0	0	0	3
SQLE	70	66	75	53	75	51
SQSTM1	502	484	529	420	417	383
SRA1	41	41	36	19	21	30
SRBD1	113	101	99	87	82	75
SRC	109	130	199	16	27	3
SRCAP	14	11	12	13	12	3
SRCIN1	0	0	1	9	0	0
SRD5A1	35	37	41	13	12	0
SRD5A1P1	0	0	0	0	0	0
SRD5A2	0	0	0	0	0	0
SRD5A3	21	28	17	1	7	8
SREBF1	26	45	44	9	12	3
SREBF2	82	100	69	66	92	71
SREK1	561	515	612	569	515	610
SREK1IP1	191	184	189	221	236	220
SRF	227	273	215	266	297	220
SRFBP1	68	77	84	98	92	121
SRGAP1	14	8	8	43	41	94
SRGAP2	85	81	91	1	33	13
SRGAP3	10	4	7	6	15	79
SRGN	2658	2680	2658	1598	1840	1482
SRI	186	173	163	139	147	136
SRL	0	0	0	4	0	19
SRM	56	77	54	56	62	30
SRMS	0	0	0	0	0	0
SRP14	1166	1230	1148	1318	1296	1315
SRP19	222	208	163	268	232	308
SRP54	196	204	176	224	181	173
SRP68	78	86	71	117	113	132
SRP72	574	566	581	365	440	308
SRP9	250	236	237	331	336	402
SRPK1	136	122	111	153	137	154
SRPK2	539	482	557	573	579	583
SRPK3	0	0	0	0	0	0
SRPRB	193	189	163	153	206	98
SRPX	0	0	0	0	0	0
SRPX2	0	0	0	0	0	0
SRR	11	12	6	1	9	24
SRRD	28	41	47	25	30	24
SRRM1	1078	962	976	1182	1142	1069
SRRM2	1445	1441	1399	1793	1669	1851
SRRM3	0	0	1	0	0	3
SRRM4	1	0	0	0	0	0
SRRM5	0	2	0	0	0	0
SRRT	205	257	232	215	201	162
SRSF1	450	375	423	500	380	422
SRSF10	718	663	676	872	748	899
SRSF11	1932	1776	1921	2159	1802	2077
SRSF12	1	0	2	6	2	0
SRSF2	605	635	622	512	553	442
SRSF3	917	843	769	851	866	770
SRSF4	665	645	707	455	511	526
SRSF5	2303	2445	2335	1694	1725	1558
SRSF6	267	314	339	221	257	179
SRSF7	1010	971	931	770	797	770
SRSF8	310	300	291	536	632	470
SRSF9	231	266	276	228	263	288
SRXN1	1	2	5	0	2	0
SRY	0	0	0	0	0	0
SS18	115	131	129	121	147	143
SS18L1	55	49	67	69	46	46
SS18L2	140	150	149	114	159	112
SSB	631	574	506	706	598	675
SSBP1	472	501	474	504	551	550
SSBP2	70	78	91	119	103	112
SSBP3	201	223	264	206	274	188
SSBP4	94	94	93	58	41	40

SSC5D	0	0	0	0	0	0
SSH1	185	189	232	139	158	124
SSH2	203	221	215	274	221	267
SSH3	6	2	11	16	9	19
SSNA1	20	42	23	28	24	8
SSPN	39	47	42	121	82	124
SSPO	0	0	0	0	2	0
SSR1	829	763	677	573	667	422
SSR2	358	409	438	476	470	405
SSR3	569	543	447	321	378	312
SSR4	246	234	178	302	325	308
SSR4P1	1	0	0	0	0	0
SSRP1	321	367	307	455	511	486
SSSCA1	7	13	16	4	15	0
SST	0	0	0	0	0	0
SSTR1	0	0	0	0	0	0
SSTR2	24	21	25	53	18	24
SSTR3	10	9	7	43	46	66
SSTR4	0	0	0	0	0	0
SSTR5	0	0	0	0	0	0
SSU72	188	215	240	377	401	411
SSX1	0	0	0	0	0	0
SSX2	0	0	0	0	0	0
SSX2B	0	0	0	0	0	0
SSX2IP	56	38	36	34	38	8
SSX3	0	0	0	0	0	0
SSX4	0	0	0	0	0	0
SSX4B	0	0	0	0	0	0
SSX5	0	0	0	0	0	0
SSX7	0	0	0	0	0	0
ST13	312	328	326	377	395	442
ST13P4	2	2	2	9	2	0
ST14	54	50	77	6	2	0
ST18	9	2	1	1	2	3
ST20	26	29	24	79	57	56
ST20-MTHFS	0	0	0	0	0	0
ST3GAL1	207	228	193	342	321	282
ST3GAL2	62	72	67	43	72	40
ST3GAL3	19	15	17	13	7	3
ST3GAL4	6	8	1	1	12	3
ST3GAL5	243	241	286	155	151	117
ST3GAL6	88	91	97	31	33	56
ST5	0	0	0	4	9	19
ST6GAL1	534	533	487	849	831	798
ST6GAL2	1	0	0	0	0	0
ST6GALNAC1	2	6	6	9	15	3
ST6GALNAC2	0	0	0	0	0	0
ST6GALNAC3	9	6	8	9	21	8
ST6GALNAC4	20	24	22	0	2	0
ST6GALNAC5	0	0	1	0	0	3
ST6GALNAC6	0	0	0	0	0	24
ST7	5	13	9	9	7	3
ST7-AS1	1	0	0	0	0	0
ST7-AS2	0	0	0	0	0	0
ST7-OT4	4	1	0	4	0	0
ST7L	17	15	15	43	38	40
ST8SIA1	62	74	87	234	166	241
ST8SIA2	0	0	0	0	0	0
ST8SIA3	1	0	1	1	4	0
ST8SIA4	319	324	316	157	151	169
ST8SIA5	0	0	0	0	0	0
ST8SIA6	0	2	3	0	4	3
STAB1	67	87	97	6	2	8
STAB2	0	4	0	16	12	19
STAC	15	1	5	0	0	0
STAC2	0	0	0	0	0	0
STAC3	14	21	11	16	4	24
STAG1	281	233	281	305	288	271
STAG2	1195	1156	1163	1354	1289	1455
STAG3	9	2	6	19	9	8
STAG3L1	1	1	2	1	2	0
STAG3L2	2	1	2	4	7	3
STAG3L3	5	1	3	1	2	0
STAG3L4	12	15	11	6	9	19
STAM	132	136	152	209	206	249
STAM2	192	158	172	155	124	139
STAMBP	136	120	112	139	115	107
STAMBPL1	77	33	53	74	106	61
STAP1	39	45	41	51	79	56
STAP2	1	0	0	0	0	0
STAR	0	0	0	0	0	0
STARD10	9	2	7	4	0	0
STARD13	12	1	20	9	24	30
STARD3	39	56	53	60	75	66
STARD3NL	85	61	65	48	21	3
STARD4	130	88	101	25	38	8
STARD5	7	9	11	0	2	0
STARD6	0	0	0	0	0	0
STARD7	645	606	550	416	440	335
STARD8	10	19	16	4	2	3
STARD9	37	29	28	16	15	8
STAT1	4538	4286	4407	701	1006	791
STAT2	326	310	339	173	177	158
STAT3	228	275	286	243	283	297
STAT4	103	70	99	149	90	117
STAT5A	217	206	229	230	285	237
STAT5B	220	231	235	389	397	422
STAT6	407	543	504	479	447	312
STATH	7	13	3	34	24	61
STAU1	243	227	232	263	245	227
STAU2	159	146	136	136	172	132
STC1	0	4	0	1	4	0
STC2	0	0	0	0	0	0

STEAP1	0	0	0	0	2	0
STEAP1B	0	0	0	4	0	0
STEAP2	1	0	0	9	0	13
STEAP3	5	9	8	0	0	0
STEAP4	189	197	179	1	12	0
STH	0	0	0	0	0	0
STIL	2	6	6	48	38	89
STIM1	142	182	181	276	236	185
STIM2	447	436	430	743	617	658
STIP1	117	107	100	139	97	79
STK10	300	309	358	436	447	343
STK11	97	120	169	182	179	169
STK11IP	30	26	31	9	15	8
STK16	26	33	42	60	77	112
STK17A	340	321	324	544	606	616
STK17B	1174	1037	1174	1515	1458	1504
STK19	2	0	2	4	2	8
STK24	332	385	293	394	424	321
STK25	187	204	166	129	133	112
STK3	65	67	60	63	65	124
STK31	5	5	3	9	9	19
STK32A	0	0	0	0	0	0
STK32B	0	1	0	1	0	0
STK32C	42	50	39	72	35	94
STK33	5	0	0	9	2	24
STK35	97	120	112	192	210	182
STK36	59	66	60	103	52	79
STK38	405	489	485	563	673	534
STK38L	148	122	109	108	127	94
STK39	83	70	72	141	159	151
STK4	1403	1521	1488	1725	1706	1636
STK40	139	83	94	79	79	61
STMN1	129	114	112	149	122	79
STMN2	0	0	0	4	4	13
STMN3	116	124	147	206	162	147
STMN4	0	0	0	1	2	3
STOM	257	247	273	211	174	124
STOML1	9	9	13	22	18	30
STOML2	125	122	113	134	144	136
STOML3	0	0	0	0	0	0
STON1	17	14	12	16	30	19
STON1-GTF2A1L	0	0	0	0	0	0
STON2	0	0	1	0	0	0
STOX1	0	0	1	13	2	8
STOX2	10	7	6	31	38	61
STRA6	0	0	0	0	0	0
STRA8	0	0	0	0	0	0
STRADA	34	42	63	187	129	291
STRADB	17	17	28	6	7	35
STRAP	358	359	323	387	383	369
STRBP	166	170	167	274	227	288
STRC	0	1	0	0	0	0
STRN	249	202	209	153	174	179
STRN3	179	172	171	333	257	362
STRN4	29	29	21	13	35	13
STS	18	8	13	9	21	8
STT3A	186	194	204	206	217	169
STT3B	442	425	406	366	348	308
STUB1	55	87	89	79	120	35
STX10	70	66	72	45	49	35
STX11	137	127	119	13	24	24
STX12	162	134	141	98	103	98
STX16	203	198	166	313	292	325
STX16-NPEPL1	2	2	0	0	0	0
STX17	95	121	111	108	106	112
STX18	37	43	31	48	54	24
STX19	0	0	0	1	2	0
STX1A	1	1	0	4	0	0
STX1B	0	0	0	1	0	3
STX2	75	58	62	51	49	79
STX3	85	95	76	31	54	35
STX4	148	194	192	121	137	121
STX5	26	25	26	28	30	19
STX6	181	170	157	136	147	173
STX7	444	393	507	201	223	254
STX8	58	65	54	43	46	40
STXBP1	14	9	5	9	7	3
STXBP2	11	9	11	9	12	3
STXBP3	209	188	181	151	164	158
STXBP4	15	22	21	22	7	0
STXBP5	177	165	168	143	142	179
STXBP5L	0	0	1	0	2	0
STXBP6	7	9	21	63	82	121
STYK1	0	1	3	1	2	0
STYX	192	185	214	175	201	173
STYXL1	55	55	57	53	54	13
SUB1	729	777	778	746	809	699
SUCLA2	34	39	52	28	15	13
SUCLG1	258	216	225	187	219	165
SUCLG2	115	127	127	100	84	30
SUCNR1	114	97	97	25	33	40
SUDS3	217	213	190	248	276	213
SUFU	65	77	59	69	57	71
SUGP1	15	29	37	16	27	46
SUGP2	136	148	165	203	151	188
SUGT1	340	346	307	237	227	207
SUGT1P3	0	4	6	0	0	0
SULF1	0	0	0	0	2	0
SULF2	100	100	77	6	33	0
SULT1A1	61	63	53	22	7	19
SULT1A2	0	0	0	0	0	3
SULT1A3	0	0	0	0	0	0
SULT1A4	0	0	0	0	0	0

SULT1B1	14	13	20	53	27	30
SULT1C2	0	1	3	1	9	8
SULT1C2P1	0	0	0	0	0	0
SULT1C3	0	0	0	0	0	0
SULT1C4	0	0	0	0	0	0
SULT1E1	0	0	0	0	0	0
SULT2A1	0	0	0	0	0	0
SULT2B1	0	0	0	0	0	0
SULT4A1	0	0	0	0	0	0
SULT6B1	0	0	0	1	0	0
SUMF1	125	148	124	139	124	143
SUMF2	35	54	61	58	57	66
SUMO1	179	166	168	157	195	162
SUMO1P1	0	0	0	0	0	0
SUMO1P3	0	0	0	0	0	0
SUMO2	218	181	177	157	168	121
SUMO3	712	905	763	175	219	165
SUMO4	17	16	17	25	12	19
SUN1	146	130	121	211	191	94
SUN2	705	723	690	701	802	499
SUN3	0	0	0	0	0	0
SUN5	0	0	0	0	0	0
SUOX	10	16	13	43	12	56
SUPT16H	571	515	546	737	729	729
SUPT3H	23	24	31	34	27	40
SUPT4H1	28	20	24	28	18	8
SUPT5H	101	121	109	193	179	207
SUPT6H	85	73	82	103	103	84
SUPT7L	60	49	63	45	49	19
SUPV3L1	61	69	54	112	103	103
SURF1	68	86	97	119	97	66
SURF2	12	16	16	19	21	3
SURF4	421	486	435	481	572	475
SURF6	130	125	127	197	183	210
SUSD1	37	37	43	9	7	13
SUSD2	0	0	0	0	2	3
SUSD3	67	66	72	125	106	107
SUSD4	0	1	0	6	0	3
SUSD5	0	0	0	1	0	0
SUV39H1	2	2	1	4	0	0
SUV39H2	1	9	11	0	2	0
SUZ12	569	562	619	630	638	612
SVZA	5	1	1	0	4	8
SVZB	1	1	2	6	7	35
SVZC	1	0	1	1	0	0
SVEP1	2	4	1	43	12	89
SVIL	55	37	36	40	35	8
SVIP	288	305	342	349	382	275
SVOP	0	0	0	0	0	0
SVOPL	0	0	0	0	0	0
SWAP70	285	224	261	243	245	291
SWI5	9	20	13	31	15	13
SWSAP1	9	11	9	22	9	8
SWT1	40	32	34	13	41	40
SYAP1	198	201	187	175	217	165
SYBU	4	0	2	1	0	3
SYCE1	0	0	0	0	0	0
SYCE1L	0	0	3	0	0	0
SYCE2	0	0	0	1	0	8
SYCE3	0	0	0	0	2	0
SYCN	0	0	0	0	0	0
SYCP1	2	4	1	6	0	19
SYCP2	24	28	32	66	49	94
SYCP2L	6	4	5	4	9	0
SYCP3	2	2	3	4	0	3
SYDE1	0	0	0	0	0	0
SYDE2	2	9	8	16	15	0
SYF2	581	574	635	913	940	867
SYK	231	215	233	58	69	24
SYMPK	84	111	162	177	181	143
SYN1	0	0	0	0	0	0
SYN2	0	0	0	0	0	0
SYN3	0	0	0	0	0	0
SYNC	4	5	9	16	35	51
SYNCRIP	1080	996	920	765	740	687
SYNDIG1	0	0	0	0	0	0
SYNDIG1L	0	0	0	0	0	0
SYNE1	575	551	744	509	458	422
SYNE2	1702	1495	1978	1717	1623	1906
SYNGAP1	6	9	16	28	12	8
SYNGR1	1	1	3	1	0	0
SYNGR2	687	771	902	430	523	408
SYNGR3	2	2	2	0	2	0
SYNGR4	0	0	0	0	0	0
SYNJ1	148	139	146	125	122	103
SYNJ2	100	101	111	117	142	136
SYNJ2BP	113	128	129	125	129	136
SYNJ2BP-COX16	0	0	0	0	0	0
SYNM	32	17	31	40	46	30
SYNPO	0	5	3	1	4	0
SYNPO2	11	8	5	90	33	112
SYNPO2L	0	0	0	0	0	0
SYNPR	0	2	0	0	2	3
SYNRG	520	579	594	916	940	966
SYP	2	0	0	16	12	0
SYPL1	253	251	232	190	210	143
SYPL2	0	0	0	0	0	0
SYS1	180	216	230	108	153	103
SYS1-DBNDD2	0	0	0	0	0	0
SYT1	2	0	0	4	2	8
SYT10	0	0	0	1	0	0
SYT11	82	76	78	93	84	66
SYT12	1	0	0	0	4	0

SYT13	0	0	0	0	0	0
SYT14	2	0	0	0	4	13
SYT15	0	0	0	0	0	0
SYT16	2	1	0	16	15	46
SYT17	4	0	0	0	12	8
SYT2	0	0	0	0	0	3
SYT3	0	0	0	1	0	0
SYT4	0	0	0	0	0	0
SYT5	0	0	0	0	2	8
SYT6	1	0	1	1	0	3
SYT7	0	0	0	0	0	0
SYT8	0	0	0	0	0	0
SYT9	0	0	0	0	0	0
SYTL1	24	13	14	4	24	8
SYTL2	150	163	129	342	309	279
SYTL3	140	150	147	179	210	107
SYTL4	0	0	0	0	2	3
SYTL5	0	0	0	0	0	0
SVVN1	118	107	99	110	79	40
SZT2	40	39	28	53	60	79
TAAR1	0	0	0	0	0	0
TAAR2	0	0	0	0	0	0
TAAR5	0	0	0	0	0	0
TAAR6	0	0	0	0	0	0
TAAR8	0	0	0	0	0	0
TAAR9	0	0	0	0	0	0
TAB1	40	35	53	56	60	66
TAB2	520	482	522	554	635	579
TAB3	77	81	67	79	57	75
TAC1	0	0	0	0	0	0
TAC3	0	0	0	28	4	35
TAC4	0	0	0	0	0	0
TACC1	584	582	609	519	498	453
TACC2	1	0	0	4	4	13
TACC3	118	107	104	151	122	84
TACO1	29	34	26	22	33	24
TACR1	0	2	0	0	0	0
TACR2	0	0	0	0	0	0
TACR3	0	0	1	0	0	0
TACSTD2	7	9	8	1	0	0
TADA1	113	107	106	114	137	75
TADA2A	88	86	82	74	77	46
TADA2B	75	71	79	87	95	107
TADA3	51	68	57	56	54	46
TAF1	331	357	351	424	466	425
TAF10	50	48	65	63	90	71
TAF11	128	126	133	143	155	139
TAF12	94	93	101	90	95	98
TAF13	122	113	130	74	75	103
TAF15	203	208	233	314	203	264
TAF1A	13	7	11	9	24	3
TAF1B	80	50	57	31	33	24
TAF1C	52	52	42	69	75	46
TAF1D	476	456	444	955	866	944
TAF1L	4	5	6	1	4	19
TAF2	136	121	117	187	189	176
TAF3	250	265	246	319	319	312
TAF4	79	67	54	100	87	56
TAF4B	58	37	53	90	72	79
TAF5	35	34	28	9	27	0
TAF5L	100	76	80	90	77	71
TAF6	20	35	31	60	35	56
TAF6L	4	2	6	6	0	0
TAF7	498	508	469	594	542	518
TAF7L	0	0	0	1	0	3
TAF8	87	107	113	98	115	117
TAF9	175	142	120	82	84	66
TAF9B	35	40	35	48	49	46
TAGAP	554	503	499	652	682	573
TAGLN	11	9	14	16	18	24
TAGLN2	576	692	908	466	715	393
TAGLN3	0	0	0	0	0	0
TAL1	7	6	8	6	2	0
TAL2	0	0	0	1	0	0
TALD01	605	598	647	134	177	165
TAMM41	40	48	74	66	92	19
TANC1	2	2	3	0	4	0
TANC2	74	66	69	45	46	19
TANK	306	277	299	432	473	589
TAOK1	766	773	693	691	551	663
TAOK2	26	23	35	34	38	40
TAOK3	1010	966	1041	795	778	789
TAP1	573	568	646	365	413	383
TAP2	484	465	523	175	234	132
TAPBP	1399	1528	1702	930	1022	753
TAPBPL	38	33	48	53	54	35
TAPT1	106	107	127	171	166	154
TARBP1	58	65	45	69	84	139
TARBP2	28	22	41	31	4	40
TARDBP	170	178	203	402	311	405
TARM1	0	0	0	0	0	0
TARS	402	355	390	415	401	518
TARS2	35	17	36	63	49	8
TARSL2	74	77	74	106	92	66
TAS1R1	0	0	0	0	0	0
TAS1R2	0	0	0	0	0	0
TAS1R3	1	0	0	0	0	3
TAS2R1	0	0	0	0	0	0
TAS2R10	0	0	0	0	0	0
TAS2R13	0	0	0	0	0	0
TAS2R14	12	14	5	16	12	19
TAS2R16	0	0	0	0	0	0
TAS2R19	0	0	0	0	0	3

TAS2R20	0	0	0	0	0	0
TAS2R3	0	0	0	0	0	0
TAS2R30	6	7	18	6	7	0
TAS2R31	0	0	0	0	0	0
TAS2R38	0	0	0	0	0	0
TAS2R39	0	0	0	0	0	0
TAS2R4	22	16	37	161	117	188
TAS2R40	0	0	0	0	0	0
TAS2R41	0	0	0	0	0	0
TAS2R42	0	0	0	0	0	0
TAS2R43	0	0	0	0	0	0
TAS2R46	0	0	0	0	0	0
TAS2R5	0	0	0	0	0	0
TAS2R50	0	0	0	0	0	0
TAS2R60	0	0	0	0	0	0
TAS2R7	0	0	0	0	0	0
TAS2R8	0	0	0	0	0	0
TAS2R9	0	0	0	0	0	0
TASP1	36	28	37	34	21	24
TAT	0	0	0	0	0	3
TATDN1	136	139	126	232	227	185
TATDN2	64	74	79	93	108	75
TATDN3	87	68	62	37	43	30
TAX1BP1	1174	1091	1037	971	922	944
TAX1BP3	34	30	28	4	0	3
TAZ	58	48	52	95	75	84
TBC1D1	157	126	140	127	79	128
TBC1D10A	12	35	25	43	35	13
TBC1D10B	20	24	23	28	24	13
TBC1D10C	147	198	235	257	316	207
TBC1D12	26	22	29	6	0	0
TBC1D13	52	60	55	63	60	51
TBC1D14	129	128	109	143	120	103
TBC1D15	376	332	375	951	863	962
TBC1D16	6	7	7	6	2	3
TBC1D17	9	25	35	25	27	8
TBC1D19	13	12	12	25	15	13
TBC1D2	63	56	53	0	0	0
TBC1D20	79	88	90	48	65	19
TBC1D21	0	0	0	0	0	0
TBC1D22A	147	100	157	125	162	132
TBC1D22B	29	24	20	13	30	30
TBC1D23	147	143	130	145	162	117
TBC1D24	83	74	91	43	43	19
TBC1D25	32	31	28	19	18	3
TBC1D26	0	0	0	0	0	0
TBC1D28	0	0	0	0	0	0
TBC1D29	0	0	0	0	0	0
TBC1D2B	134	114	159	165	185	275
TBC1D3	0	0	0	0	0	0
TBC1D30	6	8	9	4	9	13
TBC1D3B	0	0	0	0	0	0
TBC1D3C	0	0	0	0	0	0
TBC1D3F	0	0	0	0	0	0
TBC1D3G	0	0	0	0	0	0
TBC1D3H	0	0	0	0	0	0
TBC1D3P1-DHX40P1	0	0	0	0	0	0
TBC1D3P2	0	0	0	0	0	0
TBC1D3P5	0	0	0	0	0	0
TBC1D4	259	255	264	427	304	447
TBC1D5	314	269	283	311	288	271
TBC1D7	18	14	14	13	12	8
TBC1D8	15	9	7	6	7	8
TBC1D8B	14	11	13	4	9	8
TBC1D9	70	52	61	19	24	8
TBC1D9B	127	102	119	60	62	56
TBCA	735	768	648	892	944	924
TBCB	77	71	65	34	33	13
TBCC	102	131	162	250	197	176
TBCC01	18	23	34	9	35	40
TBCD	103	105	140	250	227	192
TBCE	13	15	22	49	42	73
TBCEL	36	34	37	56	54	94
TBCK	55	48	29	76	92	112
TBK1	157	137	148	117	153	158
TBKBP1	22	21	34	13	35	24
TBL1X	321	314	383	375	305	275
TBL1XR1	411	366	434	483	426	456
TBL1Y	0	0	0	0	0	0
TBL2	47	61	48	66	49	71
TBL3	6	2	6	0	0	8
TBP	83	86	99	139	115	136
TBP11	69	77	66	112	97	112
TBP12	0	0	0	0	0	0
TBR1	0	0	0	1	0	0
TBRG1	303	340	312	400	340	352
TBRG4	40	57	72	76	87	107
TBX1	0	0	0	0	0	0
TBX10	0	0	0	0	0	0
TBX15	0	0	0	0	0	0
TBX18	0	0	0	1	2	3
TBX19	15	20	8	66	62	66
TBX2	1	0	0	1	0	0
TBX20	0	0	0	0	0	0
TBX21	101	102	112	134	221	136
TBX22	0	0	0	0	0	0
TBX3	0	0	0	0	0	0
TBX4	0	0	0	0	0	0
TBX5	0	0	0	0	0	0
TBX6	0	0	0	0	4	0
TBXA2R	0	1	7	0	2	0
TBXAS1	165	159	177	4	15	13
TC2N	388	391	442	560	520	482

TCAM1P	0	0	0	0	0	8
TCAP	1	2	9	13	9	19
TCEA1	148	148	95	199	189	216
TCEA2	11	7	13	16	7	30
TCEA3	17	25	17	28	15	56
TCEAL1	45	50	48	53	49	51
TCEAL2	0	0	0	0	0	0
TCEAL3	74	45	61	63	87	40
TCEAL4	87	62	51	69	41	71
TCEAL5	0	0	0	0	0	0
TCEAL6	0	0	0	0	0	0
TCEAL7	0	0	0	0	0	0
TCEAL8	153	151	140	285	252	261
TCEANC	45	43	45	69	54	66
TCEANC2	63	48	46	84	69	56
TCERG1	648	659	681	1198	967	1327
TCERG1L	0	0	0	0	0	0
TCF12	122	111	97	171	170	179
TCF15	0	0	0	0	0	0
TCF19	15	11	11	1	12	0
TCF20	137	173	202	173	164	188
TCF21	0	0	0	0	0	0
TCF23	0	0	0	0	0	0
TCF24	0	1	0	1	0	3
TCF25	633	596	727	577	584	400
TCF3	170	182	169	165	162	162
TCF4	465	409	499	446	443	442
TCF7	261	294	377	720	733	621
TCF7L1	0	1	0	0	0	0
TCF7L2	51	46	58	66	41	103
TCFL5	30	37	29	31	41	24
TCHH	0	0	0	0	0	0
TCHHL1	0	0	0	0	0	3
TCHP	65	52	55	48	67	71
TCIRG1	34	33	31	9	21	0
TCL1A	99	111	149	90	97	66
TCL1B	0	0	0	0	0	0
TCL6	6	6	5	13	7	0
TCN1	4	6	2	0	2	0
TCN2	30	24	25	0	7	8
TCOF1	125	157	158	193	201	237
TCP1	278	301	267	358	309	335
TCP10	0	0	0	0	0	0
TCP10L	0	0	1	0	0	0
TCP10L2	0	0	0	28	7	24
TCP11	0	0	0	0	0	0
TCP11L1	12	15	6	9	15	19
TCP11L2	72	50	88	151	131	117
TCTA	25	35	25	45	24	24
TCTE1	0	1	0	22	15	30
TCTE3	1	2	6	43	18	35
TCTEX1D1	0	0	0	0	0	0
TCTEX1D2	25	31	14	37	35	46
TCTEX1D4	0	0	0	0	0	0
TCTN1	14	13	23	25	4	8
TCTN2	6	9	11	1	15	0
TCTN3	35	45	43	60	69	40
TDG	136	134	120	167	129	158
TDGF1	0	0	0	0	0	0
TDGF1P3	0	0	0	1	7	0
TDH	0	0	0	0	0	0
TDO2	0	1	1	0	0	0
TDP1	87	79	88	129	144	124
TDP2	177	154	169	161	144	143
TDRD1	0	0	0	9	9	35
TDRD10	0	0	0	0	0	0
TDRD12	2	0	3	19	9	24
TDRD3	87	55	72	53	57	75
TDRD5	0	0	0	0	0	0
TDRD6	0	0	6	0	0	0
TDRD7	48	46	55	28	35	40
TDRD9	6	1	0	0	0	0
TDRG1	0	0	0	0	0	0
TDRKH	13	19	23	0	12	0
TEAD1	1	0	1	1	0	3
TEAD2	1	1	0	0	0	0
TEAD3	1	0	2	4	4	8
TEAD4	0	0	0	0	0	0
TEC	5	8	3	4	0	3
TECPR1	69	61	65	139	97	66
TECPR2	44	55	45	43	62	66
TECR	5	4	8	19	21	3
TECRL	0	1	2	4	2	19
TECTA	0	0	0	1	0	0
TECTB	0	0	0	0	2	0
TEDDM1	0	0	0	0	0	0
TEF	0	8	11	6	7	0
TEFM	32	31	34	56	27	40
TEK	0	0	0	0	0	3
TEKT1	0	0	0	0	0	19
TEKT2	0	0	0	0	0	0
TEKT3	0	0	0	0	0	0
TEKT4	0	0	0	0	0	0
TEKT4P2	0	0	0	0	0	0
TEKT5	0	0	0	4	0	0
TELO2	9	6	9	0	0	0
TEN1	0	0	0	0	0	0
TEN1-CDK3	0	0	0	0	0	0
TEP1	133	122	140	90	90	46
TEPP	0	0	0	0	0	0
TERC	0	0	0	1	2	0
TERF1	116	113	105	114	84	154
TERF2	102	129	77	207	195	213

TERF2IP	848	873	859	1177	1075	1106
TERT	0	0	0	0	0	0
TES	489	517	479	434	569	467
TESC	22	25	31	31	27	79
TESK1	23	7	12	4	4	0
TESK2	36	19	26	25	30	8
TET1	10	12	8	6	21	24
TET2	274	270	299	184	164	165
TET3	142	162	163	56	79	46
TEX10	52	49	52	84	84	124
TEX101	0	7	1	1	0	3
TEX11	0	0	0	0	0	0
TEX12	1	0	0	0	0	0
TEX13A	0	0	0	0	0	0
TEX13B	0	0	0	0	0	0
TEX14	2	0	3	0	0	0
TEX15	1	7	2	13	18	35
TEX19	0	0	0	0	0	3
TEX2	40	47	41	9	12	19
TEX21P	0	1	0	25	38	61
TEX22	0	0	0	4	0	0
TEX26	0	0	0	0	0	0
TEX26-AS1	0	0	3	1	0	8
TEX261	64	68	61	110	122	61
TEX264	26	26	14	9	27	8
TEX28	0	0	0	0	0	0
TEX29	2	4	3	53	27	51
TEX30	61	54	62	22	24	3
TEX33	0	0	0	0	0	0
TEX9	25	11	8	60	46	79
TF	7	5	3	45	33	66
TFAM	392	364	375	498	535	591
TFAMP1	0	0	0	4	0	3
TFAP2A	0	2	1	22	7	0
TFAP2B	0	0	1	0	0	0
TFAP2C	0	0	0	0	0	0
TFAP2D	0	0	0	9	7	8
TFAP2E	0	6	1	1	7	0
TFAP4	60	57	69	79	92	94
TFB1M	45	45	44	74	52	66
TFB2M	34	30	26	19	27	40
TFCP2	198	255	179	211	252	199
TFCP2L1	2	4	1	0	0	0
TFDP1	118	139	126	110	113	112
TFDP2	163	144	179	201	227	185
TFDP3	0	0	0	0	0	0
TFE3	281	357	400	342	343	348
TFEB	28	32	35	13	38	30
TFEC	510	474	467	123	117	162
TFE1	0	0	0	0	0	0
TFE2	0	0	0	0	0	0
TFE3	0	0	0	0	0	0
TFG	310	281	330	375	279	393
TFIP11	36	43	45	76	33	71
TFPI	12	13	8	6	4	3
TFPI2	6	5	3	0	24	0
TFPT	32	43	45	25	57	0
TFR2	5	6	2	6	15	3
TFRC	210	194	207	69	95	46
TG	0	1	0	9	7	3
TGDS	46	29	22	48	21	61
TGFA	31	23	24	9	18	13
TGFB1	34	47	65	37	38	19
TGFB111	0	0	0	0	0	0
TGFB2	0	0	1	0	0	3
TGFB3	1	0	2	1	0	0
TGFB1	1052	1029	1088	16	27	0
TGFBRR1	310	275	277	169	199	117
TGFBRR2	369	355	330	448	422	482
TGFBRR3	291	305	342	640	699	495
TGFBRRAP1	56	55	71	84	67	35
TGIF1	94	106	97	149	127	147
TGIF2	167	206	169	187	177	182
TGIF2LX	0	0	0	0	0	0
TGIF2LY	0	0	0	0	0	0
TGM1	1	0	0	0	0	0
TGM2	22	19	8	4	2	13
TGM3	0	0	0	0	0	0
TGM4	0	0	0	4	15	13
TGM5	0	0	0	0	0	0
TGM6	0	0	0	0	0	0
TGM7	0	0	0	0	0	0
TGOLN2	658	730	672	607	646	668
TGS1	167	181	151	226	276	224
TH	0	0	0	0	0	0
THADA	61	84	93	121	111	112
THAP1	84	91	79	84	79	98
THAP10	0	0	0	1	0	0
THAP11	189	171	154	232	217	233
THAP2	36	28	31	74	54	147
THAP3	13	16	29	31	38	35
THAP4	22	26	20	22	24	30
THAP5	229	210	181	349	352	317
THAP6	80	65	79	103	87	79
THAP7	28	23	22	22	38	24
THAP7-AS1	6	12	6	9	15	24
THAP8	7	11	5	0	0	0
THAP9	4	2	5	0	2	13
THBD	10	8	3	0	0	0
THBS1	430	523	548	84	84	46
THBS2	0	0	2	0	0	8
THBS3	7	5	12	9	0	3
THBS4	0	0	0	0	0	8

THEG	0	0	0	0	0	0
THEGL	0	0	0	0	0	0
THEM4	65	52	52	82	77	66
THEM5	0	0	0	0	0	0
THEMIS	139	134	132	215	155	151
THG1L	45	58	39	84	72	35
THNSL1	11	2	8	19	21	13
THNSL2	0	2	0	0	0	8
THOC1	151	139	144	175	170	158
THOC2	1102	1032	1094	1088	1013	873
THOC3	29	35	29	25	21	19
THOC5	32	55	37	63	46	89
THOC6	11	12	18	0	0	0
THOC7	337	293	251	323	279	314
THOP1	20	28	18	13	24	35
THPO	0	0	0	0	0	0
THRA	85	101	115	108	100	94
THRAP3	718	645	716	781	800	658
THRB	6	5	5	28	33	30
THRSP	0	0	0	0	0	0
THSD1	0	0	0	31	0	0
THSD4	0	0	0	4	0	0
THSD7A	28	26	15	90	84	132
THSD7B	0	0	0	0	0	0
THTPA	0	0	0	0	0	0
THUMPD1	450	430	411	439	567	329
THUMPD2	45	56	40	69	54	51
THUMPD3	123	115	116	108	127	185
THY1	0	0	0	0	0	0
THYN1	114	111	133	193	158	147
TIA1	398	338	343	387	340	335
TIAF1	0	1	0	0	0	0
TIAL1	418	342	385	441	419	397
TIAM1	216	179	218	211	187	230
TIAM2	20	13	7	87	75	128
TICAM1	88	108	140	56	87	89
TICAM2	0	0	0	0	0	0
TIE1	0	0	0	0	0	0
TIFA	166	153	133	179	189	220
TIFAB	39	52	37	0	0	0
TIGD1	6	8	7	19	27	30
TIGD2	21	22	9	19	15	13
TIGD3	7	7	1	25	9	24
TIGD4	0	1	0	0	0	0
TIGD5	24	6	15	16	24	35
TIGD6	4	9	5	34	41	24
TIGD7	29	31	22	45	30	13
TIGIT	408	422	435	655	673	521
TIMD4	2	2	0	6	12	24
TIMELESS	65	57	66	31	18	24
TIMM10	50	60	55	76	75	40
TIMM13	111	120	100	127	140	121
TIMM17A	179	179	155	100	108	107
TIMM17B	26	23	30	22	33	13
TIMM21	95	82	75	151	140	151
TIMM22	40	31	36	51	43	84
TIMM23	55	48	55	40	46	84
TIMM44	48	46	55	82	62	51
TIMM50	22	29	17	31	35	19
TIMM8A	18	8	12	0	15	0
TIMM8B	160	171	175	143	137	185
TIMM9	78	67	62	134	111	136
TIMMDC1	206	195	204	278	252	264
TIMP1	89	87	84	16	21	30
TIMP2	580	589	511	37	46	51
TIMP3	7	13	8	40	24	30
TIMP4	0	0	0	0	0	0
TINAG	0	0	1	0	0	0
TINAGL1	0	0	0	0	0	0
TINF2	88	136	142	63	69	24
TIPARP	309	268	257	175	147	196
TIPARP-AS1	6	4	8	22	2	0
TIPIN	15	19	16	22	15	30
TIPRL	279	312	279	261	240	297
TIRAP	7	8	8	4	0	0
TJAP1	42	26	42	53	52	40
TJP1	2	5	2	9	18	24
TJP2	13	16	8	16	30	19
TJP3	4	2	1	0	0	0
TK1	0	1	0	0	0	0
TK2	40	38	34	6	12	8
TKT	465	569	681	250	297	275
TKTL1	2	7	2	4	2	0
TKTL2	0	0	0	0	0	0
TLCD1	0	1	0	0	0	0
TLCD2	6	5	6	22	24	40
TLE1	40	30	37	19	27	35
TLE2	5	6	2	4	0	0
TLE3	169	179	172	323	335	199
TLE4	598	627	622	632	713	589
TLE6	0	0	0	0	0	0
TLK1	442	493	494	601	604	478
TLK2	72	56	53	199	122	207
TLL1	7	8	5	37	46	71
TLL2	0	1	0	13	9	40
TLN1	546	525	622	354	330	329
TLN2	26	15	15	6	0	3
TLR1	163	169	168	95	79	124
TLR10	77	68	76	254	272	233
TLR2	231	245	238	9	21	8
TLR3	12	5	11	4	0	0
TLR4	332	272	244	4	15	0
TLR5	35	29	25	6	0	0

TLR6	28	25	30	9	15	19
TLR7	74	60	45	9	4	0
TLR8	624	708	655	1	12	24
TLR8-AS1	0	0	0	0	0	3
TLR9	0	0	0	0	0	0
TLX1	0	0	0	0	0	0
TLX1NB	0	0	0	0	0	0
TLX2	0	0	0	0	0	0
TLX3	0	0	0	0	2	0
TM2D1	395	397	406	424	378	447
TM2D2	98	102	87	123	82	71
TM2D3	189	147	144	203	257	261
TM4SF1	0	0	0	0	7	3
TM4SF18	0	1	1	9	0	8
TM4SF19	2	4	2	0	7	0
TM4SF20	0	0	1	0	0	0
TM4SF4	0	0	0	0	0	0
TM4SF5	0	0	0	0	0	0
TM6SF1	55	62	55	0	7	13
TM6SF2	0	0	0	0	0	0
TM7SF2	9	11	3	13	7	19
TM7SF3	241	220	166	129	122	75
TM9SF1	12	12	21	48	4	13
TM9SF2	691	740	721	397	394	376
TM9SF3	671	713	704	606	631	629
TM9SF4	113	109	89	132	158	158
TMBIM1	100	120	111	87	103	79
TMBIM4	621	581	658	432	387	325
TMBIM6	1820	1789	1871	1116	1120	1063
TMC1	0	1	2	0	0	8
TMC2	0	0	0	0	0	0
TMC3	0	0	0	0	2	0
TMC4	2	0	2	0	0	0
TMC5	0	0	2	0	0	0
TMC6	72	109	134	98	124	66
TMC7	0	0	0	4	2	3
TMC8	132	113	130	192	140	158
TMCC1	88	102	76	117	75	121
TMCC2	7	5	2	4	2	3
TMCC3	37	42	48	51	87	51
TMCO1	587	561	556	452	506	369
TMCO2	0	0	0	0	0	0
TMCO3	96	76	88	69	46	75
TMCO4	41	41	36	56	54	51
TMCO5A	1	1	0	0	0	0
TMCO5B	0	0	0	1	0	0
TMCO6	6	9	9	4	0	0
TMED1	21	19	24	0	0	0
TMED10	956	954	930	777	813	687
TMED10P1	0	0	0	0	0	0
TMED11P	0	0	0	6	2	30
TMED2	540	555	560	546	523	499
TMED3	29	24	18	51	65	117
TMED4	163	188	185	248	193	158
TMED5	361	377	361	195	197	121
TMED6	0	0	5	6	0	8
TMED7	212	220	241	93	111	71
TMED7-TICAM2	0	0	0	0	0	0
TMED8	147	167	178	141	120	173
TMED9	530	648	597	372	431	340
TMEFF1	0	0	0	0	0	0
TMEFF2	2	2	0	4	9	8
TMEM100	0	0	0	0	0	0
TMEM101	54	67	52	28	41	40
TMEM102	4	2	3	0	0	0
TMEM104	32	35	31	9	12	3
TMEM105	0	0	0	0	0	0
TMEM106A	90	120	103	40	41	40
TMEM106B	240	285	239	271	232	279
TMEM106C	18	20	28	6	41	24
TMEM107	94	125	117	127	151	40
TMEM108	2	2	8	16	30	35
TMEM109	358	406	373	215	295	196
TMEM11	66	73	89	79	103	107
TMEM110-MUSTN1	0	0	1	0	0	0
TMEM114	0	0	0	0	0	0
TMEM115	25	22	29	13	24	8
TMEM116	39	38	31	119	103	136
TMEM117	4	13	13	9	4	13
TMEM119	0	1	0	28	7	24
TMEM120A	67	87	66	79	69	94
TMEM120B	14	13	13	4	12	13
TMEM121	2	1	1	1	0	0
TMEM123	1793	1729	1675	1495	1609	1218
TMEM125	0	1	0	0	0	0
TMEM126A	107	78	71	51	62	3
TMEM126B	133	159	146	155	179	147
TMEM127	229	234	235	63	90	40
TMEM128	76	96	75	143	120	151
TMEM129	47	62	71	98	108	66
TMEM130	0	0	0	0	0	3
TMEM131	182	150	147	151	166	196
TMEM132A	0	0	1	0	0	0
TMEM132B	5	1	0	1	0	8
TMEM132C	1	0	0	0	2	0
TMEM132D	1	0	1	0	0	3
TMEM132E	0	0	0	0	0	0
TMEM134	89	87	99	110	111	84
TMEM135	28	25	23	31	24	13
TMEM136	1	0	0	0	0	0
TMEM138	154	187	182	19	54	56
TMEM139	0	0	0	4	0	0
TMEM140	49	43	59	34	49	8

TMEM141	32	60	72	25	15	40
TMEM143	13	12	17	9	2	19
TMEM144	24	24	23	1	0	3
TMEM145	0	0	0	0	0	0
TMEM147	152	167	148	58	87	51
TMEM14A	49	34	29	37	27	3
TMEM14B	153	144	111	119	142	132
TMEM14C	175	148	116	112	149	84
TMEM150A	20	32	34	1	9	0
TMEM150B	1	1	2	0	0	0
TMEM150C	1	0	1	0	2	8
TMEM151A	0	0	0	0	0	0
TMEM151B	0	0	0	0	0	0
TMEM154	151	131	159	117	137	112
TMEM155	6	1	5	1	2	3
TMEM156	9	20	17	6	27	24
TMEM158	26	26	26	0	9	13
TMEM159	32	28	26	19	18	13
TMEM160	10	19	29	1	15	0
TMEM161A	19	30	50	48	18	13
TMEM161B	145	144	193	207	199	210
TMEM163	13	11	14	0	0	0
TMEM164	188	185	182	43	41	13
TMEM165	282	303	345	193	164	203
TMEM167A	358	369	369	257	249	285
TMEM167B	157	172	149	228	263	271
TMEM168	72	83	85	123	92	132
TMEM169	4	7	6	0	7	3
TMEM17	0	0	0	0	7	0
TMEM170A	195	179	142	195	195	192
TMEM170B	79	81	63	6	7	8
TMEM171	1	0	0	1	0	8
TMEM173	35	50	62	56	46	35
TMEM174	0	0	0	0	0	0
TMEM175	14	13	17	4	0	3
TMEM176A	17	15	18	13	4	13
TMEM176B	35	39	34	0	0	0
TMEM177	22	19	15	4	7	3
TMEM179	0	0	0	0	0	0
TMEM179B	179	153	152	108	106	112
TMEM18	113	95	104	76	92	79
TMEM181	192	189	244	182	187	132
TMEM182	7	5	3	1	7	0
TMEM183A	80	72	80	108	84	103
TMEM184A	0	0	0	0	0	0
TMEM184B	60	69	58	84	106	75
TMEM184C	85	83	69	66	69	30
TMEM185A	6	9	9	13	9	8
TMEM185B	39	37	31	9	18	89
TMEM186	51	45	34	79	108	98
TMEM187	14	26	21	19	12	3
TMEM189	88	96	83	72	52	35
TMEM189-UBE2V1	0	0	0	0	0	0
TMEM19	147	144	132	82	62	30
TMEM190	0	0	0	0	0	0
TMEM191A	0	4	5	0	4	0
TMEM191C	0	0	0	0	0	0
TMEM192	235	238	189	163	164	188
TMEM196	0	0	0	0	0	3
TMEM198	0	0	0	0	0	0
TMEM198B	6	13	8	25	9	13
TMEM199	122	122	132	136	153	154
TMEM200A	5	1	5	1	4	13
TMEM200B	0	0	0	40	24	79
TMEM200C	1	0	0	0	0	0
TMEM201	11	13	2	0	0	0
TMEM202	0	0	0	0	0	0
TMEM203	49	49	54	93	95	66
TMEM204	173	190	185	399	459	376
TMEM205	58	56	52	40	41	3
TMEM206	49	49	42	9	24	8
TMEM207	0	0	0	0	0	0
TMEM208	143	166	152	103	122	107
TMEM209	85	96	79	95	87	107
TMEM211	0	0	0	0	0	0
TMEM212	0	0	0	0	0	0
TMEM213	1	0	0	0	0	19
TMEM214	60	67	75	40	54	66
TMEM215	0	0	0	0	0	0
TMEM216	22	24	15	9	24	8
TMEM217	4	0	0	6	4	0
TMEM218	47	42	22	25	27	40
TMEM219	107	120	112	114	100	79
TMEM220	30	34	34	19	21	13
TMEM221	0	0	0	0	0	0
TMEM222	12	7	3	0	7	8
TMEM223	49	28	30	43	52	61
TMEM225	0	0	0	0	0	0
TMEM229A	0	0	0	0	0	0
TMEM229B	13	17	24	6	4	8
TMEM231	4	0	1	34	33	51
TMEM232	2	0	0	40	21	71
TMEM233	0	0	0	0	4	8
TMEM234	6	2	1	0	4	0
TMEM235	0	0	0	0	0	0
TMEM236	10	4	6	43	43	56
TMEM237	11	6	11	0	9	3
TMEM238	1	0	0	0	7	0
TMEM239	0	0	0	0	0	0
TMEM240	0	0	0	1	0	0
TMEM241	7	9	7	13	12	46
TMEM242	50	42	47	13	24	13
TMEM244	4	0	1	1	0	0

TMEM25	15	13	13	13	12	13
TMEM26	1	0	1	0	0	0
TMEM30A	540	549	471	430	447	376
TMEM30B	15	24	8	40	43	24
TMEM31	0	0	0	0	0	0
TMEM33	348	322	313	182	219	188
TMEM37	0	0	0	0	0	0
TMEM38A	0	5	1	0	2	0
TMEM38B	97	79	83	48	54	30
TMEM39A	96	88	98	84	108	94
TMEM39B	24	29	23	6	12	0
TMEM40	0	2	0	0	4	8
TMEM41A	20	30	25	28	30	0
TMEM41B	47	84	67	87	82	61
TMEM42	25	23	21	69	49	46
TMEM43	383	373	355	304	397	308
TMEM44	1	0	0	0	0	0
TMEM45A	0	0	1	1	2	3
TMEM45B	21	23	16	60	38	8
TMEM47	1	8	0	13	2	24
TMEM50A	433	368	340	369	350	362
TMEM50B	157	151	138	84	87	56
TMEM51	241	234	197	37	38	46
TMEM52	0	0	0	0	0	0
TMEM53	12	12	18	1	0	0
TMEM54	0	0	0	0	0	0
TMEM56	0	2	1	0	0	0
TMEM56-RWDD3	0	0	0	1	0	0
TMEM59	517	482	464	397	447	352
TMEM59L	0	0	0	0	0	0
TMEM60	64	70	66	51	38	40
TMEM61	0	0	0	0	0	0
TMEM62	31	26	28	19	18	3
TMEM63A	144	107	181	149	166	79
TMEM63B	44	43	39	19	7	0
TMEM63C	0	1	0	0	0	0
TMEM64	68	56	48	93	113	61
TMEM65	83	100	90	43	75	66
TMEM67	6	9	6	9	9	13
TMEM68	59	50	48	69	72	66
TMEM69	41	45	39	51	52	56
TMEM70	244	269	202	184	158	154
TMEM71	103	91	120	123	103	103
TMEM72	0	0	0	0	0	0
TMEM72-AS1	0	0	0	0	0	0
TMEM74	0	0	0	0	0	0
TMEM74B	0	0	0	0	0	0
TMEM79	0	6	5	4	0	0
TMEM80	38	55	50	51	41	35
TMEM81	7	8	5	9	2	0
TMEM82	0	0	0	0	0	0
TMEM86A	11	12	8	0	0	0
TMEM86B	11	21	21	34	21	35
TMEM87A	542	543	460	339	475	352
TMEM87B	274	245	244	221	234	224
TMEM88	0	0	3	0	0	0
TMEM88B	0	0	0	0	0	0
TMEM89	0	0	0	0	0	0
TMEM8A	208	214	243	143	170	61
TMEM8B	15	9	20	28	30	0
TMEM9	37	43	44	63	65	51
TMEM91	10	13	14	4	15	13
TMEM92	0	0	0	0	0	0
TMEM95	0	0	0	0	0	0
TMEM97	20	17	9	4	12	0
TMEM98	0	0	0	0	0	0
TMEM99	7	9	11	13	18	19
TMEM9B	273	305	264	179	197	124
TMF1	550	511	509	493	517	482
TMIE	1	1	0	1	0	0
TMIGD1	1	5	7	25	27	56
TMIGD2	7	5	14	6	15	3
TMLHE	2	2	5	4	0	0
TMOD1	0	1	0	1	0	0
TMOD2	77	50	53	48	43	75
TMOD3	416	396	393	281	265	179
TMOD4	0	1	0	0	0	0
TMPO	400	388	402	485	429	408
TMPE	10	16	12	0	2	0
TMPRSS11A	0	0	0	0	0	0
TMPRSS11B	2	1	7	22	27	56
TMPRSS11BNL	0	0	0	4	0	3
TMPRSS11D	0	0	0	0	0	3
TMPRSS11E	1	0	0	0	0	3
TMPRSS11F	1	2	2	28	24	30
TMPRSS11GP	0	0	0	0	0	0
TMPRSS12	0	0	0	0	0	8
TMPRSS13	2	0	1	4	4	8
TMPRSS15	0	5	0	9	27	19
TMPRSS2	0	0	0	0	0	0
TMPRSS3	11	8	12	53	35	40
TMPRSS4	0	1	5	9	7	3
TMPRSS5	0	0	1	0	0	0
TMPRSS6	0	0	0	1	0	0
TMPRSS7	1	0	0	0	2	19
TMPRSS9	0	0	0	1	0	13
TMSB10	2408	2408	2445	543	773	415
TMSB15A	0	0	0	0	0	0
TMSB15B	0	0	0	0	0	0
TMSB4X	2604	2769	2508	2335	2551	2260
TMSB4Y	4	4	0	0	0	3
TMTC1	18	19	16	37	54	89
TMTC2	24	52	30	58	33	66

TMTC3	90	81	71	103	100	112
TMTC4	41	37	45	43	43	35
TMUB1	15	14	29	6	18	24
TMUB2	51	58	84	60	82	24
TMX1	329	325	304	134	170	107
TMX2	84	100	107	103	106	98
TMX2-CTNND1	0	0	0	0	0	0
TMX3	314	314	343	414	365	400
TMX4	549	508	501	366	463	348
TNC	0	0	6	22	35	40
TNF	56	38	25	72	77	40
TNFAIP1	47	54	42	16	24	0
TNFAIP2	1066	1160	1022	34	65	46
TNFAIP3	1146	1258	1234	1271	1482	1380
TNFAIP6	47	37	47	45	43	75
TNFAIP8	1431	1320	1329	1278	1348	1170
TNFAIP8L1	70	86	72	53	82	40
TNFAIP8L2	13	17	24	19	4	0
TNFAIP8L3	0	0	1	0	0	0
TNFRSF10A	106	122	122	217	189	176
TNFRSF10B	77	80	63	95	52	89
TNFRSF10C	0	0	0	0	0	0
TNFRSF10D	55	55	36	60	72	13
TNFRSF11A	7	11	14	4	2	0
TNFRSF11B	0	1	2	0	4	24
TNFRSF12A	1	8	1	0	0	0
TNFRSF13B	21	7	26	31	54	46
TNFRSF13C	113	120	116	151	170	84
TNFRSF14	269	347	408	254	300	154
TNFRSF17	13	17	8	9	24	3
TNFRSF18	6	8	18	45	38	35
TNFRSF19	1	0	0	0	0	0
TNFRSF1A	170	187	169	37	79	71
TNFRSF1B	493	623	529	331	450	279
TNFRSF21	4	0	2	0	0	0
TNFRSF25	88	73	127	294	251	317
TNFRSF4	2	6	9	16	0	0
TNFRSF6B	0	0	0	0	0	0
TNFRSF8	2	2	1	0	0	0
TNFRSF9	50	48	57	66	82	84
TNFSF10	283	243	218	82	144	112
TNFSF11	4	6	3	0	0	0
TNFSF12	88	83	78	28	67	35
TNFSF12-TNFSF13	0	0	0	0	0	0
TNFSF13	0	0	0	0	0	0
TNFSF13B	772	732	734	103	106	173
TNFSF14	36	38	44	48	57	79
TNFSF15	4	1	2	1	0	0
TNFSF18	0	0	0	0	0	3
TNFSF4	11	9	9	40	24	30
TNFSF8	15	23	17	51	69	46
TNFSF9	1	2	5	1	0	0
TNIK	238	262	255	319	385	314
TNIP1	214	241	273	243	277	267
TNIP2	42	35	30	51	30	8
TNIP3	14	19	28	45	35	24
TNK1	4	1	1	0	2	3
TNK2	100	87	109	136	137	169
TNKS	87	83	90	147	144	162
TNKS1BP1	5	4	5	1	0	0
TNKS2	255	234	226	319	288	308
TNMD	0	0	0	0	0	0
TNN	0	0	0	0	0	0
TNNC1	0	0	0	4	12	8
TNNC2	0	1	0	4	0	0
TNNI1	0	0	0	0	0	0
TNNI2	7	5	6	0	0	0
TNNI3	0	0	0	4	0	13
TNNI3K	0	0	0	0	0	0
TNNT1	5	4	2	0	0	0
TNNT2	0	0	1	0	0	0
TNNT3	0	4	0	28	4	30
TNP1	0	0	0	0	0	0
TNP2	0	0	0	0	0	3
TNPO1	480	485	527	470	506	459
TNPO2	66	88	85	155	168	154
TNPO3	224	247	252	268	314	282
TNR	0	0	0	1	7	24
TNRC18	98	115	100	127	97	98
TNRC6A	378	384	492	695	686	723
TNRC6B	1379	1374	1551	1636	1509	1741
TNRC6C	314	351	381	450	488	388
TNS1	21	17	15	1	2	0
TNS3	145	132	167	4	0	8
TNS4	0	0	0	0	0	0
TNXA	0	0	0	0	0	0
TNXB	0	0	0	0	0	0
TOB1	316	281	286	187	185	132
TOB2	193	200	176	190	199	173
TOB2P1	0	1	0	1	0	8
TOE1	46	46	32	22	41	46
TOLLIP	143	173	141	98	111	94
TOM1	28	46	43	19	18	0
TOM1L1	1	2	0	1	4	3
TOM1L2	36	30	30	51	49	24
TOMM20	238	282	301	241	270	224
TOMM20L	0	0	0	0	0	0
TOMM22	182	202	228	286	254	294
TOMM34	77	77	100	98	111	75
TOMM40	76	73	119	119	129	103
TOMM40L	24	24	16	4	7	3
TOMM5	12	7	8	13	7	46
TOMM6	0	0	0	0	0	0

TOMM7	1441	1354	1238	2532	2532	2583
TONSL	0	0	0	0	0	0
TOP1	737	628	644	919	817	1102
TOP1MT	47	37	25	25	33	8
TOP2A	31	39	18	48	52	30
TOP2B	608	638	565	924	885	971
TOP3A	36	29	41	34	60	24
TOP3B	0	0	0	0	0	0
TOPBP1	262	248	261	248	230	249
TOPORS	442	372	360	354	270	388
TOR1A	95	73	95	82	62	79
TOR1AIP1	274	275	246	226	290	288
TOR1AIP2	270	262	239	286	270	301
TOR1B	65	72	48	16	33	0
TOR2A	29	29	24	0	9	0
TOR3A	84	135	107	106	100	79
TOX	94	109	91	167	185	162
TOX2	30	20	21	82	92	40
TOX3	2	0	1	0	0	0
TOX4	222	209	267	254	328	216
TP53	64	77	83	147	113	128
TP53AIP1	0	0	0	0	0	0
TP53BP1	122	122	109	153	129	124
TP53BP2	130	117	85	110	120	121
TP53I11	28	26	26	22	33	19
TP53I13	21	23	11	9	9	0
TP53I3	20	11	13	0	0	0
TP53INP1	117	139	104	112	115	132
TP53INP2	21	21	23	0	12	0
TP53RK	87	100	91	63	117	30
TP53TG1	30	19	18	25	12	8
TP53TG3	0	0	0	0	0	0
TP53TG3B	0	0	0	0	0	0
TP53TG3C	0	0	0	0	0	0
TP53TG5	0	0	0	0	0	0
TP63	5	4	2	19	9	3
TP73	0	0	0	0	0	0
TP73-AS1	14	31	28	69	43	24
TPBG	10	13	7	34	43	94
TPCN1	62	71	85	76	30	79
TPCN2	29	31	31	19	27	13
TPD52	90	79	87	72	113	94
TPD52L1	2	0	3	16	2	3
TPD52L2	241	292	287	147	208	162
TPD52L3	0	1	0	0	0	0
TPG51	0	4	1	0	0	0
TPG52	72	79	88	82	79	30
TPH1	6	7	18	13	18	56
TPH2	0	1	0	0	2	19
TPI1	380	432	343	237	422	165
TPI1P2	0	0	0	0	0	0
TPI1P3	0	0	0	0	0	0
TPK1	84	68	74	79	62	89
TPM1	31	28	37	16	15	8
TPM2	26	32	35	22	33	35
TPM3	714	668	543	464	481	325
TPM4	257	259	221	82	108	56
TPMT	97	104	77	9	21	3
TPO	0	0	0	0	0	0
TPP1	598	596	559	441	409	442
TPP2	302	233	281	311	242	345
TPPP	2	5	0	1	4	3
TPPP2	0	0	0	0	0	0
TPPP3	0	0	0	0	0	0
TPR	1390	1241	1307	1623	1445	1445
TPRA1	31	29	29	19	24	3
TPRG1	22	17	22	58	49	98
TPRG1L	101	109	96	136	144	117
TPRKB	113	104	121	117	137	165
TPRN	5	7	7	19	21	3
TPRX1	0	0	0	0	0	0
TPRXL	0	0	0	0	0	8
TPSAB1	0	0	0	0	0	0
TPSB2	0	0	0	0	0	3
TPSD1	0	0	0	0	0	0
TPSG1	0	0	0	0	0	0
TPST1	5	5	5	22	15	61
TPST2	142	175	159	98	120	51
TPT1	6588	6045	5644	12614	7765	8884
TPT1-AS1	40	34	42	90	77	103
TPTE	0	0	0	0	0	0
TPTE2	0	0	0	4	4	13
TPTE2P1	0	0	0	4	0	0
TPTE2P6	0	0	0	0	0	0
TPTEP1	0	0	1	0	7	3
TPX2	1	6	3	6	7	51
TRA2A	591	609	683	509	561	523
TRA2B	1346	1253	1333	1338	1385	1521
TRABD	103	113	109	121	115	107
TRADD	64	56	48	60	90	56
TRAF1	113	100	141	195	203	216
TRAF2	22	20	20	28	21	35
TRAF3	300	330	282	393	392	442
TRAF3IP1	101	93	83	110	100	75
TRAF3IP2	13	14	16	74	33	66
TRAF3IP2-AS1	10	9	9	19	27	8
TRAF3IP3	489	500	528	675	584	514
TRAF4	19	11	13	9	27	19
TRAF5	113	98	128	193	140	143
TRAF6	45	33	42	34	35	30
TRAF7	94	117	135	98	113	66
TRAFD1	114	139	113	100	142	139
TRAIP	5	2	8	1	0	0

TRAK1	85	98	75	103	69	66
TRAK2	227	198	162	141	155	112
TRAM1	834	798	753	610	652	518
TRAM1L1	0	0	0	0	2	0
TRAM2	58	45	39	22	35	3
TRANK1	218	234	258	171	115	182
TRAP1	66	76	47	93	92	94
TRAPPC1	34	48	45	19	33	35
TRAPPC10	97	96	115	157	135	176
TRAPPC11	137	135	128	169	151	128
TRAPPC12	49	32	66	79	60	51
TRAPPC2	76	91	103	121	140	94
TRAPPC2L	95	125	90	79	90	46
TRAPPC3	88	96	80	103	97	103
TRAPPC4	207	228	248	237	263	188
TRAPPC5	1	5	3	9	9	19
TRAPPC6A	47	54	47	93	106	84
TRAPPC6B	92	108	121	121	131	103
TRAPPC8	350	287	304	391	281	297
TRAPPC9	9	17	13	1	7	8
TRAT1	135	136	101	203	208	210
TRDMT1	28	16	31	31	18	51
TRDN	4	0	0	4	9	0
TREH	0	0	0	0	0	0
TREM1	9	2	3	0	0	0
TREM2	20	28	28	0	0	0
TREML1	0	1	0	0	0	0
TREML2	1	0	0	0	2	0
TREML4	0	4	0	6	15	30
TRERF1	182	158	179	165	177	176
TREX1	0	0	0	0	0	0
TREX2	0	0	0	0	0	0
TRH	0	1	0	0	0	0
TRHDE	4	4	5	6	12	24
TRHR	0	0	0	0	0	0
TRIAP1	123	169	136	203	179	188
TRIB1	87	77	72	34	33	24
TRIB2	186	234	257	261	309	199
TRIB3	14	17	8	9	9	0
TRIL	0	0	0	0	0	0
TRIM10	0	0	0	0	0	0
TRIM11	128	169	142	211	245	188
TRIM13	114	139	154	228	208	227
TRIM14	150	157	183	149	149	136
TRIM15	0	0	0	0	0	0
TRIM16	6	12	12	28	24	51
TRIM16L	6	6	5	16	12	0
TRIM17	0	0	0	0	0	0
TRIM2	15	12	12	9	21	40
TRIM21	133	148	186	93	117	128
TRIM22	442	427	485	377	394	325
TRIM23	100	80	97	173	168	210
TRIM24	95	81	82	110	49	84
TRIM25	184	194	220	147	127	121
TRIM26	108	105	116	110	131	117
TRIM27	134	134	128	193	183	216
TRIM28	65	58	57	103	100	94
TRIM29	0	0	0	0	0	0
TRIM3	2	1	5	1	0	0
TRIM31	0	2	0	0	2	3
TRIM32	32	20	22	9	65	8
TRIM33	437	454	476	543	577	621
TRIM34	0	1	1	1	0	0
TRIM35	77	57	54	66	65	13
TRIM36	11	6	9	19	9	13
TRIM37	96	83	66	90	82	51
TRIM38	569	576	657	573	523	604
TRIM39	47	52	40	56	72	66
TRIM39-RPP21	0	0	0	0	0	0
TRIM4	249	254	281	360	354	369
TRIM40	0	0	0	0	0	0
TRIM41	60	40	51	63	79	89
TRIM42	0	0	0	0	0	0
TRIM43	0	0	0	0	0	0
TRIM43B	0	0	0	0	0	0
TRIM44	467	513	567	611	661	717
TRIM45	0	1	0	0	0	0
TRIM46	0	2	0	1	2	0
TRIM47	9	6	6	1	7	0
TRIM48	0	0	0	0	0	0
TRIM49	0	0	0	0	0	0
TRIM5	84	77	77	53	57	30
TRIM50	0	0	0	0	0	0
TRIM52	183	185	177	313	288	355
TRIM54	0	0	0	0	0	0
TRIM55	0	0	0	0	0	0
TRIM56	312	355	362	552	532	697
TRIM58	0	0	2	0	2	13
TRIM59	113	98	98	110	106	139
TRIM6	2	6	0	0	0	0
TRIM6-TRIM34	0	0	0	0	0	0
TRIM60	0	0	0	1	0	0
TRIM61	0	0	0	0	0	0
TRIM62	7	5	9	0	0	0
TRIM63	0	0	0	0	0	0
TRIM64	0	0	0	0	0	0
TRIM64B	0	0	0	0	0	0
TRIM64C	0	1	0	4	0	3
TRIM65	45	42	47	74	54	19
TRIM66	49	38	44	69	77	89
TRIM67	0	0	0	0	0	0
TRIM68	18	34	30	16	4	3
TRIM69	140	190	133	298	325	385

TRIM7	0	1	1	0	0	0
TRIM71	0	0	1	0	4	8
TRIM72	0	0	0	9	9	24
TRIM73	0	0	0	0	0	0
TRIM74	0	0	0	0	0	0
TRIM8	90	93	95	112	90	158
TRIM9	2	4	7	9	9	24
TRIML1	0	0	0	0	0	0
TRIML2	0	0	0	0	2	0
TRIO	95	94	91	56	35	89
TRIOBP	87	90	90	58	54	46
TRIP10	15	23	15	0	9	8
TRIP11	403	367	375	483	399	583
TRIP12	630	654	648	716	613	766
TRIP13	0	4	0	0	0	0
TRIP4	119	137	124	119	111	84
TRIP6	10	21	13	9	0	0
TRIT1	56	69	79	69	77	75
TRMT1	20	23	26	16	41	30
TRMT11	41	52	53	58	67	66
TRMT112	506	577	566	709	802	595
TRMT12	34	49	44	34	54	19
TRMT1L	175	193	186	331	285	435
TRMT2A	20	11	14	16	18	13
TRMT2B	77	86	88	58	84	13
TRMT5	35	40	36	34	41	30
TRMT6	166	192	142	197	225	188
TRMT61A	7	2	7	1	4	0
TRMT61B	36	22	28	40	30	46
TRMU	7	11	13	19	15	30
TRNAU1AP	55	52	53	63	77	98
TRNP1	0	0	0	0	0	0
TRNT1	79	71	77	69	84	66
TRO	0	1	0	1	0	0
TROAP	0	0	0	0	0	0
TROVE2	378	345	305	366	325	393
TRPA1	1	0	0	1	0	0
TRPC1	13	12	5	25	30	3
TRPC2	0	0	0	0	0	0
TRPC3	0	1	0	0	7	3
TRPC4	0	0	0	0	0	0
TRPCAAP	88	72	72	79	62	61
TRPC5	0	0	0	0	0	0
TRPC6	4	0	1	4	2	24
TRPC7	0	0	0	0	0	0
TRPM1	1	0	0	16	7	13
TRPM2	23	21	31	0	0	0
TRPM3	6	11	13	63	57	151
TRPM4	5	2	6	1	0	0
TRPM5	0	0	0	0	0	0
TRPM6	10	4	2	6	2	13
TRPM7	598	609	660	888	835	849
TRPM8	0	2	3	1	41	66
TRPS1	137	139	120	139	140	124
TRPT1	19	19	21	9	35	0
TRPV1	2	2	3	9	2	19
TRPV2	54	63	45	25	15	0
TRPV3	2	1	1	0	2	8
TRPV4	0	1	8	0	0	3
TRPV5	0	0	0	0	0	0
TRPV6	0	0	0	0	0	0
TRRAP	69	82	100	79	103	117
TRUB1	100	97	111	201	151	207
TRUB2	41	32	48	58	72	71
TSC1	234	222	289	288	223	207
TSC2	52	45	54	79	57	46
TSC22D1	94	90	113	155	103	154
TSC22D2	180	159	168	161	172	139
TSC22D3	598	715	554	683	838	616
TSC22D4	137	158	178	123	168	128
TSEN15	276	309	302	307	362	275
TSEN2	6	7	15	34	30	30
TSEN34	69	76	75	34	52	3
TSEN54	147	161	186	217	203	227
TSFM	65	55	28	79	113	79
TSG101	129	126	142	121	135	107
TSGA10	52	42	52	98	124	143
TSGA10IP	0	0	0	0	0	0
TSGA13	0	0	0	0	0	0
TSHB	0	0	0	0	0	0
TSHR	5	0	5	13	0	19
TSHZ1	163	175	140	199	201	192
TSHZ2	87	82	104	452	297	523
TSHZ3	49	52	30	0	0	0
TSIX	2	5	5	16	7	66
TSKS	0	1	0	0	0	0
TSKU	0	0	0	0	0	0
TSLP	0	1	0	0	0	0
TSN	272	279	293	274	335	192
TSNARE1	0	2	1	0	2	0
TSNAX	188	194	148	153	168	128
TSNAX-DISC1	0	0	0	0	0	0
TSNAXIP1	0	0	1	0	0	0
TSPAN1	0	0	0	0	0	0
TSPAN10	4	2	0	0	0	0
TSPAN11	0	0	0	0	0	0
TSPAN12	0	0	0	0	0	0
TSPAN13	28	38	37	40	65	40
TSPAN14	306	344	360	455	447	472
TSPAN15	0	1	0	4	0	0
TSPAN16	0	0	0	0	0	3
TSPAN17	32	29	34	13	21	8
TSPAN18	13	4	8	25	7	0

TSPAN19	4	0	1	0	0	3
TSPAN2	68	50	42	63	62	51
TSPAN3	213	224	177	182	242	179
TSPAN31	44	41	35	43	30	56
TSPAN32	31	16	24	22	2	3
TSPAN33	25	23	34	9	12	0
TSPAN4	32	43	46	6	2	3
TSPAN5	31	35	35	60	49	8
TSPAN6	7	0	0	1	0	0
TSPAN7	0	0	0	0	0	0
TSPAN8	0	0	0	0	0	8
TSPAN9	0	0	0	0	0	0
TSPEAR	0	0	0	0	0	0
TSPO	213	251	218	106	82	46
TSPO2	0	0	0	0	0	0
TSPY1	0	0	0	0	0	0
TSPY2	0	0	0	0	0	0
TSPY26P	5	8	6	9	9	8
TSPY3	0	0	0	0	0	0
TSPY4	0	0	0	0	0	0
TSPY8	0	0	0	0	0	0
TSPYL1	285	244	214	304	279	241
TSPYL2	110	111	97	224	166	261
TSPYL4	140	127	119	283	217	261
TSPYL5	2	7	6	4	2	0
TSPYL6	0	0	0	0	0	0
TSR1	102	105	90	139	103	128
TSR2	74	77	72	143	140	169
TSSC4	20	25	29	34	15	3
TSSK1B	0	0	0	0	0	0
TSSK2	0	0	0	0	0	0
TSSK3	0	0	0	0	0	0
TSSK4	0	0	0	1	0	0
TSSK6	1	1	1	0	4	0
TST	15	17	14	0	0	3
TSTA3	9	4	6	1	12	0
TSTD1	205	214	230	217	223	143
TSTD2	84	76	74	153	140	136
TTBK1	0	0	0	0	0	0
TTBK2	150	169	165	190	168	182
TTC1	200	215	215	248	238	254
TTC12	13	13	8	25	4	24
TTC13	39	50	44	63	35	71
TTC14	907	840	885	768	606	554
TTC16	9	0	5	0	0	0
TTC17	228	229	249	307	242	282
TTC19	151	175	178	296	236	291
TTC21A	2	8	7	19	7	35
TTC21B	54	56	67	56	62	75
TTC22	4	2	1	0	0	3
TTC23	6	0	0	1	2	3
TTC23L	0	1	5	0	0	0
TTC24	0	2	2	1	0	0
TTC25	1	1	1	0	0	0
TTC26	5	14	8	40	54	103
TTC27	29	23	20	16	18	30
TTC28	2	6	5	48	15	8
TTC28-AS1	40	42	41	95	60	112
TTC29	0	0	0	0	0	0
TTC3	1018	978	942	807	738	599
TTC30A	7	5	3	4	24	0
TTC30B	14	16	11	6	12	24
TTC31	56	33	62	34	27	3
TTC32	169	206	198	603	407	778
TTC33	67	93	68	106	87	107
TTC34	5	8	15	31	33	8
TTC36	0	0	0	0	0	0
TTC37	228	225	187	232	181	179
TTC38	18	15	17	6	24	3
TTC39A	0	0	0	0	0	0
TTC39B	116	107	167	119	103	98
TTC39C	294	289	297	402	378	337
TTC3P1	208	199	171	209	183	192
TTC4	2	5	5	6	9	0
TTC5	52	58	46	84	60	71
TTC7A	103	101	112	56	57	61
TTC7B	24	20	21	1	0	8
TTC8	17	9	7	4	9	13
TTC9	69	57	75	114	103	89
TTC9B	0	0	0	0	0	0
TTC9C	54	65	55	103	75	98
TTF1	180	193	138	234	179	249
TTF2	79	92	106	56	60	46
TTI1	28	21	26	28	21	30
TTI2	29	32	17	31	35	46
TTK	2	0	1	1	0	0
TTL	171	167	187	66	69	46
TTL1	6	6	3	6	0	0
TTL10	0	0	0	0	0	0
TTL11	2	4	2	4	4	0
TTL12	41	21	21	6	15	3
TTL2	0	0	0	0	0	0
TTL3	21	14	21	66	35	136
TTL4	87	111	91	9	54	8
TTL5	37	57	39	56	54	98
TTL6	0	0	0	0	0	0
TTL7	9	23	11	31	72	112
TTL9	0	0	0	0	0	3
TTN	153	135	252	293	203	348
TTPA	0	0	0	0	0	0
TTPAL	31	45	34	45	62	13
TTR	0	0	1	0	0	8
TTTY1	0	0	0	0	0	0

TTY10	1	0	1	0	0	0
TTY11	0	0	0	0	0	0
TTY12	0	0	0	0	0	0
TTY13	0	0	0	0	0	0
TTY14	2	0	1	6	0	3
TTY15	66	57	66	129	122	147
TTY16	0	0	0	0	0	0
TTY17A	0	0	0	0	0	0
TTY17B	0	0	0	0	0	0
TTY17C	0	0	0	0	0	0
TTY18	0	0	0	0	0	0
TTY19	0	0	0	0	0	0
TTY1B	0	0	0	0	0	0
TTY2	0	0	0	0	0	0
TTY20	0	0	0	0	0	0
TTY21	0	0	0	0	0	0
TTY21B	0	0	0	0	0	0
TTY22	0	0	0	0	0	0
TTY23	0	0	0	0	0	0
TTY23B	0	0	0	0	0	0
TTY2B	0	0	0	0	0	0
TTY3	0	0	0	0	0	0
TTY4	0	0	0	0	0	0
TTY4B	0	0	0	0	0	0
TTY4C	0	0	0	0	0	0
TTY5	0	0	0	0	0	0
TTY6	0	0	0	0	0	0
TTY6B	0	0	0	0	0	0
TTY7	0	0	0	0	0	0
TTY7B	0	0	0	0	0	0
TTY8	0	0	0	0	0	0
TTY8B	0	0	0	0	0	0
TTY9B	0	0	0	0	0	0
TYH1	0	0	0	4	4	8
TYH2	34	41	35	25	27	13
TYH3	518	588	615	45	67	51
TUB	0	0	0	0	0	0
TUBA1A	208	216	154	84	106	35
TUBA1B	1209	1338	1060	224	314	199
TUBA1C	697	835	696	157	254	176
TUBA3C	0	0	0	0	0	0
TUBA3D	0	0	0	0	0	0
TUBA3E	0	0	0	0	0	0
TUBA4A	200	270	244	347	450	227
TUBA4B	0	0	0	0	2	0
TUBA8	0	0	2	1	2	0
TUBAL3	0	0	0	0	0	0
TUBB	371	418	494	228	234	196
TUBB1	12	5	8	37	49	84
TUBB2A	15	16	15	0	0	0
TUBB2B	0	0	0	0	2	0
TUBB3	0	0	0	4	0	24
TUBB4A	0	0	1	0	0	0
TUBB4B	70	72	82	13	21	13
TUBB6	88	107	96	0	2	0
TUBB8	0	0	0	0	0	0
TUBBP5	2	0	1	22	12	30
TUBD1	34	28	20	51	43	51
TUBE1	44	34	24	48	43	19
TUBG1	20	35	24	13	7	0
TUBG2	5	2	6	1	4	0
TUBGCP2	146	129	142	125	131	112
TUBGCP3	111	136	137	129	103	112
TUBGCP4	30	42	39	40	30	30
TUBGCP5	76	67	68	66	46	84
TUBGCP6	39	40	37	34	35	13
TUFM	229	250	175	245	238	258
TUFT1	11	22	13	1	0	0
TUG1	390	396	435	710	584	815
TULP1	0	0	0	0	0	0
TULP2	0	0	0	0	0	0
TULP3	49	35	59	58	77	61
TULP4	220	212	218	182	236	220
TUSC1	4	5	5	0	0	0
TUSC2	253	227	208	294	309	275
TUSC3	0	0	0	1	0	0
TUT1	6	6	7	16	24	19
TWF1	125	94	85	90	106	103
TWF2	186	221	270	66	117	84
TWIST1	0	0	0	0	0	0
TWIST2	0	0	0	0	0	0
TWISTNB	132	114	109	192	151	227
TWSG1	44	50	48	34	24	8
TXK	40	26	26	72	54	89
TXLNA	84	62	68	43	60	35
TXLNB	29	26	26	13	9	0
TXLNG	126	109	100	190	153	182
TXN	1025	864	978	319	376	365
TXN2	82	72	75	40	54	40
TXNDC11	90	86	76	79	100	75
TXNDC12	24	12	15	31	15	3
TXNDC15	102	107	113	87	72	61
TXNDC16	41	30	17	16	18	8
TXNDC17	176	170	182	40	60	56
TXNDC2	0	0	0	0	0	0
TXNDC5	10	14	8	6	2	8
TXNDC8	1	0	0	0	0	0
TXNDC9	50	52	44	13	27	13
TXNIP	3592	3283	3244	2056	2056	1871
TXNLI	174	133	149	248	191	254
TXNLA4	292	229	225	226	242	216
TXNLA8	13	15	18	22	24	13
TXNRD1	493	501	556	298	314	397

TXNRD2	11	4	7	6	7	3
TXNRD3	0	2	2	13	0	3
TYK2	40	48	47	43	43	19
TYMP	259	297	328	37	24	35
TYMS	12	9	13	13	18	0
TYR	0	0	0	0	0	0
TYRO3	0	0	0	1	0	3
TYRO3P	0	0	0	0	0	0
TYROBP	825	966	869	134	162	117
TYRP1	1	1	0	0	0	0
TYSND1	25	41	40	60	49	19
TYW1	72	52	50	98	72	75
TYW1B	6	9	22	0	4	3
TYW3	177	139	164	224	191	203
TYW5	21	25	26	40	69	84
U2AF1	13	4	8	13	9	3
U2AF1L4	1	2	0	4	9	0
U2AF2	206	289	330	354	365	279
U2SURP	782	824	806	1241	1092	1246
UACA	42	35	36	16	21	8
UAP1	61	68	39	9	38	3
UAP1L1	30	35	37	13	21	0
UBA1	55	68	71	53	43	51
UBA2	340	322	313	424	419	470
UBA3	201	178	142	221	223	285
UBA5	172	157	197	149	151	103
UBA52	739	780	789	1403	1452	1509
UBA6	299	248	285	309	283	279
UBA7	34	38	52	63	62	56
UBAC1	267	239	241	155	147	132
UBAC2	99	131	123	187	189	220
UBAC2-AS1	0	0	1	1	0	0
UBAP1	52	62	65	103	100	107
UBAP1L	6	8	3	4	2	0
UBAP2	196	202	189	399	394	453
UBAP2L	140	147	168	187	166	207
UBASH3A	49	56	44	114	77	89
UBASH3B	123	109	137	215	137	224
UB8	595	618	689	399	461	463
UBC	863	1122	1197	444	540	450
UBD	22	40	18	0	0	0
UBE2A	212	182	182	173	117	112
UBE2B	718	687	686	720	696	607
UBE2C	2	5	1	6	2	3
UBE2D1	402	361	337	100	142	158
UBE2D2	566	641	605	677	733	550
UBE2D3	1276	1315	1197	1448	1408	1284
UBE2D4	17	25	13	0	2	0
UBE2DNL	0	0	0	0	0	0
UBE2E1	472	526	503	333	389	335
UBE2E2	100	93	80	4	7	3
UBE2E3	97	72	67	87	67	24
UBE2F	167	169	168	151	144	121
UBE2F-SCLY	0	0	0	0	0	0
UBE2G1	106	124	106	184	201	192
UBE2G2	140	154	141	177	219	267
UBE2H	324	306	319	456	410	355
UBE2I	394	520	529	597	628	636
UBE2J1	457	495	467	339	419	325
UBE2J2	95	94	96	134	117	147
UBE2K	373	359	413	333	345	343
UBE2L3	113	150	132	207	164	196
UBE2L6	376	380	410	268	283	305
UBE2M	31	33	34	16	49	8
UBE2MP1	0	0	0	0	0	0
UBE2N	294	264	248	336	378	435
UBE2NL	1	0	0	0	0	0
UBE2O	127	155	197	180	234	258
UBE2Q1	358	366	358	399	348	321
UBE2Q2	241	233	240	327	392	305
UBE2Q2P1	28	35	31	82	49	89
UBE2Q2P2	9	15	15	25	21	30
UBE2QL1	0	0	0	0	0	0
UBE2R2	480	451	450	536	485	459
UBE2S	0	2	3	0	2	0
UBE2T	15	22	16	1	2	3
UBE2U	0	0	0	0	0	0
UBE2V1	4	11	6	6	0	19
UBE2V2	332	309	299	383	392	355
UBE2W	182	158	171	141	147	151
UBE2Z	490	596	593	481	558	459
UBE3A	696	636	660	883	728	829
UBE3B	111	146	132	153	127	165
UBE3C	262	247	233	248	225	249
UBE3D	23	11	16	63	46	84
UBE4A	173	143	141	163	144	136
UBE4B	132	127	122	139	135	165
UBFD1	106	108	99	139	115	112
UBIAD1	58	69	65	53	69	51
UBL3	522	505	457	476	440	422
UBL4A	55	70	57	74	111	71
UBL4B	0	0	0	0	0	0
UBL5	343	367	316	343	429	376
UBL7	12	5	6	1	0	0
UBLCP1	163	177	194	203	170	237
UBN1	694	705	725	707	807	766
UBN2	247	230	238	245	232	227
UBOX5	5	9	9	19	4	3
UBP1	257	257	230	302	272	258
UBQLN1	353	430	375	455	410	486
UBQLN2	241	234	254	268	203	264
UBQLN3	0	0	0	0	0	0
UBQLN4	0	4	3	0	2	0

UBQLNL	0	0	0	4	4	8
UBR1	286	261	302	397	419	456
UBR2	351	375	399	397	350	432
UBR3	121	134	130	159	140	132
UBR4	175	159	175	266	234	332
UBR5	451	437	494	546	470	565
UBR7	108	87	85	98	82	75
UBTD1	5	12	11	0	0	0
UBTD2	98	114	120	45	67	8
UBTF	176	209	209	248	276	227
UBTFL1	0	0	0	0	0	0
UBXN1	365	412	414	603	692	678
UBXN10	0	0	0	0	0	0
UBXN11	15	6	5	4	0	0
UBXN2A	72	82	78	125	127	139
UBXN2B	49	37	43	45	30	46
UBXN4	714	689	655	795	762	819
UBXN6	180	188	197	134	172	154
UBXN7	454	471	454	601	511	636
UBXN8	31	34	31	45	21	35
UCA1	0	0	0	0	0	0
UCHL1	6	2	5	1	2	0
UCHL3	41	37	31	13	7	0
UCHL5	313	236	270	293	285	291
UCK1	19	25	34	6	18	35
UCK2	11	19	11	1	0	0
UCKL1	40	42	58	16	27	13
UCMA	0	0	0	0	0	0
UCN	1	12	9	34	24	40
UCN2	0	0	0	0	0	0
UCN3	0	0	0	0	0	0
UCP1	0	0	0	0	0	0
UCP2	113	129	135	155	155	151
UCP3	10	7	3	4	4	3
UEVLD	124	157	135	211	206	261
UFC1	365	453	422	466	513	493
UFL1	321	276	310	383	309	355
UFM1	444	417	439	493	508	511
UFSP1	0	1	0	0	0	0
UFSP2	125	93	117	103	122	98
UGCG	591	543	576	525	556	537
UGDH	98	117	90	79	97	79
UGGT1	227	185	228	234	195	220
UGGT2	34	39	35	34	33	40
UGP2	246	236	232	252	227	241
UGT1A1	0	0	0	0	0	0
UGT1A10	0	0	0	0	0	0
UGT1A3	0	0	0	0	0	0
UGT1A4	0	0	0	0	0	0
UGT1A5	0	0	0	0	0	0
UGT1A6	0	0	0	0	0	0
UGT1A7	0	0	0	0	0	0
UGT1A8	0	0	0	0	0	0
UGT1A9	0	0	0	0	0	0
UGT2A1	0	0	0	0	0	3
UGT2A2	0	0	0	0	0	0
UGT2A3	0	0	0	0	0	0
UGT2B10	0	0	0	0	0	0
UGT2B11	2	6	6	28	18	46
UGT2B15	0	4	0	4	7	3
UGT2B17	0	0	0	0	0	0
UGT2B28	0	0	0	0	0	0
UGT2B4	0	0	0	0	0	0
UGT2B7	1	17	8	19	30	61
UGT3A1	6	11	11	31	72	117
UGT3A2	0	0	0	0	0	3
UGT8	6	7	3	9	2	13
UHMK1	799	854	876	841	879	851
UHRF1	1	1	0	0	0	0
UHRF1B1P1	56	43	55	19	12	24
UHRF1B1P1L	135	120	122	63	57	61
UHRF2	145	142	147	175	203	192
UIMC1	118	102	123	190	203	196
ULBP1	0	0	0	0	0	0
ULBP2	0	0	0	0	0	0
ULBP3	0	0	0	0	0	0
ULK1	69	73	68	127	100	89
ULK2	49	41	34	74	62	56
ULK3	117	101	116	79	108	40
ULK4	17	17	36	9	18	35
ULK4P1	0	0	0	0	0	0
ULK4P2	0	0	0	0	0	0
ULK4P3	0	0	0	0	0	0
UMOD	0	0	0	0	0	0
UMODL1	0	0	0	0	0	0
UMPS	80	74	67	53	69	46
UNC119	106	118	133	125	137	112
UNC119B	18	32	21	34	27	8
UNC13A	0	0	0	1	0	19
UNC13B	7	5	12	0	0	0
UNC13C	5	6	5	4	4	30
UNC13D	24	39	53	37	24	19
UNC45A	52	43	36	51	24	19
UNC45B	4	0	3	4	2	0
UNC50	88	83	96	147	124	124
UNC5A	0	0	0	0	0	0
UNC5B	6	0	0	0	0	0
UNC5C	4	4	0	9	0	8
UNC5CL	13	16	16	43	24	35
UNC5D	2	5	3	13	21	35
UNC79	4	2	3	1	2	19
UNC80	5	0	3	4	7	24
UNC93A	0	0	0	0	0	0

UNC93B1	36	25	37	4	9	0
UNCX	0	0	0	0	0	0
UNG	83	100	77	74	111	66
UNK	55	45	42	72	82	71
UNKL	83	61	60	108	108	128
UOX	0	0	0	0	0	0
UPB1	2	4	7	13	18	66
UPF1	104	134	115	226	191	176
UPF2	332	335	391	500	506	450
UPF3A	108	90	109	127	159	169
UPF3B	337	308	293	531	391	565
UPK1A	0	0	0	16	18	8
UPK1B	0	0	0	0	0	0
UPK2	0	0	0	6	4	8
UPK3A	0	0	0	0	0	0
UPK3B	0	0	0	0	0	0
UPP1	61	41	77	74	97	89
UPP2	0	0	0	0	0	0
UPRT	60	35	44	37	43	51
UQCR10	153	157	168	134	158	94
UQCR11	229	171	167	203	227	237
UQCR8	1189	1250	1139	1820	1851	1785
UQCR8BP1	14	13	3	28	33	30
UQCRC1	62	61	50	19	33	19
UQCRC2	385	339	304	335	330	245
UQCRFS1	208	159	154	165	137	151
UQCRH	437	442	415	603	590	621
UQCRQ	256	258	225	159	219	128
URB1	24	20	17	9	41	8
URB2	44	49	46	45	60	94
URGCP	30	31	40	43	54	40
URGCP-MRPS24	0	0	0	0	0	0
URI1	421	472	389	617	625	624
URM1	122	144	94	157	153	139
UROC1	0	0	0	0	0	0
UROD	79	101	68	72	95	40
UROS	28	35	24	19	30	30
USE1	26	22	14	28	33	24
USF1	1	11	6	6	2	0
USF2	410	459	513	399	422	400
USH1C	0	0	0	0	0	0
USH1G	0	0	0	0	0	0
USH2A	6	8	1	22	33	66
USHBP1	0	0	0	0	0	0
USO1	296	324	314	224	236	230
USP1	537	530	523	672	686	616
USP10	285	310	370	402	410	456
USP11	59	69	80	40	111	66
USP12	126	125	94	129	127	98
USP13	28	26	25	56	41	24
USP14	252	245	235	288	292	365
USP15	639	613	693	735	691	992
USP16	558	500	599	665	508	647
USP17L2	0	0	0	0	0	0
USP17L5	0	0	0	0	0	0
USP17L6P	0	0	0	0	0	0
USP18	10	2	7	6	7	8
USP19	110	122	133	134	142	89
USP2	0	0	0	0	0	0
USP20	23	33	44	66	75	46
USP21	13	17	18	28	9	24
USP22	381	435	343	432	402	493
USP24	181	165	222	201	223	203
USP25	271	222	197	268	281	275
USP26	0	0	0	0	0	0
USP27X	37	37	34	40	41	24
USP28	167	170	159	119	111	56
USP29	0	0	1	1	0	0
USP3	297	264	259	339	305	393
USP30	25	31	28	37	38	66
USP31	35	26	37	16	4	8
USP32	44	31	41	37	33	13
USP32P1	13	12	17	4	0	19
USP32P2	0	0	0	0	0	0
USP33	527	487	581	592	648	663
USP34	558	552	591	638	529	554
USP35	11	5	6	19	2	3
USP36	243	239	288	404	354	411
USP37	90	97	99	117	155	124
USP38	169	165	121	161	187	203
USP39	66	77	67	112	100	143
USP4	107	100	77	74	92	117
USP40	70	52	87	56	67	94
USP42	115	107	133	184	147	203
USP43	9	21	7	69	82	66
USP44	24	29	31	72	100	112
USP45	32	22	35	53	38	46
USP46	46	45	44	19	21	8
USP47	592	503	483	739	650	589
USP48	542	584	574	800	767	789
USP49	25	21	26	69	43	94
USP5	35	28	35	22	21	3
USP50	0	0	0	0	0	0
USP51	19	13	13	16	7	3
USP53	102	100	126	123	162	128
USP54	4	5	1	1	2	3
USP6	0	0	0	25	9	51
USP6NL	94	92	96	37	21	46
USP7	706	682	753	1007	1044	1125
USP8	580	529	532	689	658	798
USP9X	386	406	461	536	456	569
USP9Y	185	187	258	486	395	526
USPL1	101	84	84	93	79	136

UST	13	8	7	0	2	8
UTF1	0	0	0	0	0	0
UTP14A	40	35	47	45	49	79
UTP14C	98	117	78	190	140	136
UTP15	54	48	53	69	87	71
UTP18	174	178	177	254	201	264
UTP20	76	61	77	114	95	176
UTP23	198	190	154	230	270	279
UTP3	426	451	432	331	336	308
UTP6	173	158	128	145	147	151
UTRN	819	766	1020	902	838	846
UTS2	0	2	0	0	0	0
UTS2R	0	0	0	0	0	0
UTY	64	60	84	190	159	182
UVRAG	259	234	235	177	177	179
UXS1	416	460	471	543	604	508
UXT	135	144	135	349	345	362
VAC14	13	7	15	9	0	0
VAMP1	30	37	30	31	12	8
VAMP2	180	217	183	335	362	397
VAMP3	127	128	117	72	46	75
VAMP4	136	155	137	161	122	121
VAMP5	59	58	45	9	7	3
VAMP7	84	79	79	110	87	84
VAMP8	248	305	266	100	115	56
VANGL1	11	11	3	0	2	0
VANGL2	0	0	0	0	0	0
VAPA	552	530	452	504	547	678
VAPB	88	100	99	201	210	271
VARS	18	19	15	16	9	8
VARS2	5	17	11	4	15	30
VASH1	23	45	36	4	2	0
VASH2	1	2	0	4	0	13
VASN	0	0	0	0	0	0
VASP	518	548	546	221	270	279
VAT1	153	201	206	31	24	8
VAT1L	0	0	0	0	0	0
VAV1	107	121	141	117	129	103
VAV2	31	34	31	45	21	46
VAV3	79	88	59	79	77	75
VAX1	0	0	0	0	0	8
VAX2	0	0	0	0	0	0
VBP1	160	144	107	132	120	112
VCAM1	6	7	1	1	24	13
VCAN	336	334	289	43	84	94
VCL	180	170	147	79	67	40
VCP	434	500	489	441	417	438
VCPIP1	294	269	259	298	249	376
VCX	0	0	0	0	0	0
VCX2	0	0	0	0	0	0
VCX3A	0	0	0	0	0	0
VCX3B	0	0	0	0	0	0
VCY	0	0	0	0	0	0
VCY1B	0	0	0	0	0	0
VDAC1	166	172	151	129	131	143
VDAC2	188	177	173	217	232	261
VDAC3	281	324	326	254	276	199
VDR	72	77	76	4	21	3
VEGFA	212	188	199	51	111	30
VEGFB	123	128	117	127	106	51
VEGFC	0	0	0	0	0	0
VENTX	1	0	1	0	0	0
VENTXP1	0	0	0	0	0	0
VENTXP7	0	0	0	0	0	0
VEPH1	1	1	0	13	2	0
VEZF1	321	282	277	288	348	241
VEZT	124	120	136	139	147	151
VGf	0	0	0	0	0	0
VGLL1	0	0	0	0	0	0
VGLL2	0	0	0	0	0	0
VGLL3	0	0	0	1	0	8
VGLL4	106	101	127	199	166	162
VHL	198	215	182	213	245	199
VHLL	0	0	0	0	0	0
VILL1	0	1	0	19	9	35
VILL	2	6	3	4	4	19
VIM	2389	2159	2012	448	579	365
VIP	0	0	0	0	0	0
VIPR1	4	6	8	9	4	0
VIPR2	6	5	7	4	7	0
VIT	0	0	0	0	0	3
VKORC1	82	101	75	45	33	8
VKORC1L1	66	82	51	72	79	75
VLDLR	11	15	11	37	72	89
VMA21	308	337	295	274	285	267
VMAC	2	6	8	1	4	8
VMO1	7	4	14	0	0	0
VMP1	408	353	374	283	240	258
VN1R1	0	0	0	0	0	0
VN1R10P	0	0	0	0	0	0
VN1R2	0	0	0	0	0	0
VN1R4	0	0	0	0	0	0
VN1R5	0	0	0	0	0	0
VNN1	0	0	0	0	0	0
VNN2	108	130	138	201	191	162
VNN3	2	5	7	1	2	13
VOPP1	166	144	97	165	151	176
VPREB1	0	0	0	0	0	0
VPREB3	6	6	7	0	0	0
VPS11	48	52	51	40	41	19
VPS13A	287	322	375	356	290	337
VPS13B	113	117	147	123	120	158
VPS13C	1088	1116	1287	990	953	949

VPS13D	216	228	252	418	338	402
VPS16	37	56	75	40	21	30
VPS18	17	20	20	9	7	3
VPS25	29	43	35	25	18	3
VPS26A	119	124	128	93	124	103
VPS26B	95	90	94	79	90	46
VPS28	122	135	119	132	137	124
VPS29	276	333	282	241	217	192
VPS33A	150	153	138	184	174	136
VPS33B	18	15	17	43	9	3
VPS35	492	448	404	369	362	340
VPS36	300	294	292	243	208	196
VPS37A	102	80	109	82	72	71
VPS37B	46	58	50	93	97	89
VPS37C	96	83	89	4	15	8
VPS37D	0	1	0	0	0	0
VPS39	45	46	46	40	72	61
VPS41	186	136	160	145	137	117
VPS45	52	32	36	4	12	19
VPS4A	92	114	84	82	117	75
VPS4B	434	444	444	436	491	397
VPS52	29	22	23	25	18	8
VPS53	116	84	93	110	60	94
VPS54	87	73	82	63	52	61
VPS72	55	55	60	58	75	35
VPS8	102	79	98	90	95	56
VRK1	118	115	113	184	201	220
VRK2	139	139	105	72	57	8
VRK3	72	63	55	53	79	40
VRTN	0	0	0	0	0	3
VSIG1	15	24	21	28	21	19
VSIG10	9	1	5	6	12	35
VSIG10L	6	0	3	0	2	3
VSIG2	0	0	0	0	0	0
VSIG4	1	4	6	0	0	0
VSIG8	0	0	0	0	0	0
VSNL1	0	0	0	0	0	0
VSTM1	2	1	5	0	0	0
VSTM2A	0	0	0	0	0	0
VSTM2B	0	0	0	0	0	0
VSTM2L	0	0	0	0	0	0
VSTM4	0	0	0	4	2	0
VSTM5	0	0	0	0	0	0
VSX1	1	0	0	6	2	19
VSX2	0	0	0	0	0	0
VT A1	252	245	213	230	234	220
VT CN1	0	0	0	4	4	24
VTI1A	77	58	68	53	79	56
VTI1B	257	280	261	159	191	179
VTN	0	0	0	0	0	0
VTRNA1-1	0	2	0	0	21	19
VTRNA1-2	0	0	0	0	0	0
VTRNA1-3	0	0	0	25	0	19
VTRNA2-1	1	0	0	1	7	3
VWA1	0	0	0	0	0	0
VWA2	0	0	0	1	0	0
VWA3A	0	0	0	0	2	3
VWA3B	2	5	2	6	24	8
VWA5A	15	26	16	34	27	35
VWA5B1	0	0	0	0	0	0
VWA5B2	0	0	0	0	0	0
VWA7	0	0	0	0	0	0
VWC2	4	5	2	13	7	8
VWC2L	0	0	0	0	0	3
VWCE	0	0	1	0	4	19
VWDE	2	0	1	0	9	19
VWF	0	0	0	0	0	0
WAC	1085	1019	1028	1166	1202	1189
WARS	452	497	525	241	332	251
WARS2	56	52	60	98	92	75
WAS	135	177	172	165	129	139
WASF1	19	8	3	6	18	3
WASF2	515	470	473	520	556	543
WASF3	0	0	0	0	0	0
WASH2P	4	2	0	4	2	0
WASH3P	0	0	0	0	0	0
WASH5P	0	0	0	0	0	0
WASH7P	0	0	0	0	0	0
WASL	88	87	52	76	90	107
WBP1	0	0	1	0	0	0
WBP11	323	307	305	351	422	385
WBP11P1	1	5	3	1	9	0
WBP2	147	127	145	141	158	158
WBP2NL	10	7	13	16	18	24
WBP4	165	157	157	132	164	154
WDFY1	388	401	428	117	181	151
WDFY2	64	94	78	82	95	128
WDFY3	97	98	122	19	12	30
WDFY3-AS2	2	0	0	0	2	8
WDFY4	121	124	142	106	75	84
WDHD1	17	23	15	4	15	13
WDPCP	18	21	20	19	30	30
WDR1	309	317	348	184	214	233
WDR11	192	153	197	215	203	207
WDR12	89	77	74	58	35	66
WDR13	29	28	51	51	38	56
WDR17	6	2	3	4	4	8
WDR18	49	60	52	28	27	19
WDR19	40	28	28	112	60	162
WDR20	80	80	71	114	92	98
WDR24	2	2	2	1	7	0
WDR25	6	12	12	16	12	8
WDR26	351	322	313	362	328	348

WDR27	19	28	23	82	15	56
WDR3	119	111	111	197	159	220
WDR31	2	0	0	0	0	3
WDR33	238	239	244	452	373	475
WDR34	0	5	3	1	2	3
WDR35	12	21	15	9	18	19
WDR36	146	115	126	141	131	165
WDR37	100	137	144	207	193	210
WDR38	0	0	0	0	0	0
WDR4	42	40	47	56	49	71
WDR41	56	60	85	19	33	0
WDR43	382	361	381	649	613	729
WDR44	56	65	76	100	79	79
WDR45	36	40	31	48	54	35
WDR46	59	63	90	79	67	89
WDR47	39	38	48	34	24	30
WDR48	129	137	130	159	142	176
WDR49	0	0	0	1	0	13
WDR5	40	50	41	56	52	56
WDR53	28	37	32	53	38	40
WDR54	39	52	54	60	129	46
WDR55	68	70	72	60	79	46
WDR59	80	88	97	134	124	103
WDR5B	17	23	13	72	72	71
WDR6	84	88	83	90	65	75
WDR60	212	193	227	481	447	573
WDR61	82	80	80	76	69	98
WDR62	0	0	1	0	0	0
WDR63	9	6	5	31	9	19
WDR64	1	1	3	22	18	24
WDR66	0	4	5	63	46	66
WDR7	106	113	101	60	106	84
WDR70	77	87	84	119	120	98
WDR72	0	0	1	0	0	0
WDR73	55	41	55	106	77	121
WDR74	24	13	24	48	35	24
WDR75	107	111	87	136	140	132
WDR76	41	30	34	76	46	61
WDR77	26	11	17	6	15	0
WDR78	2	6	8	76	41	66
WDR81	32	33	37	4	21	8
WDR82	568	587	650	837	900	843
WDR83	1	1	1	0	0	0
WDR83OS	0	0	0	0	0	0
WDR86	0	0	2	0	0	0
WDR87	0	2	2	1	4	30
WDR88	0	0	0	0	0	0
WDR89	115	100	106	153	147	124
WDR90	11	14	20	19	15	46
WDR91	77	69	79	43	60	30
WDR92	42	33	35	25	33	8
WDR93	0	1	0	1	4	3
WDSUB1	37	30	28	22	24	0
WDTCT1	40	46	46	53	41	61
WDYHV1	1	12	9	1	12	0
WEE1	32	21	32	48	49	46
WEE2	0	0	0	0	0	0
WFDC1	2	0	0	4	9	3
WFDC10A	0	0	0	0	0	0
WFDC10B	0	0	0	0	0	0
WFDC11	0	0	0	0	0	0
WFDC12	0	0	0	0	0	3
WFDC13	0	0	0	0	0	8
WFDC2	0	0	0	0	0	0
WFDC3	0	0	0	0	0	0
WFDC5	0	0	0	0	0	0
WFDC6	0	0	0	0	0	0
WFDC8	0	0	0	0	0	0
WFDC9	0	0	0	0	0	0
WFIKKN1	0	0	0	0	0	0
WFIKKN2	0	0	0	0	0	0
WFS1	1	4	1	0	0	0
WHAMMM	263	230	276	625	523	819
WHAMMP2	47	48	37	87	69	124
WHAMMP3	17	16	23	28	52	30
WIF1	0	0	1	9	0	0
WIPF1	1323	1287	1226	1298	1431	1390
WIPF2	238	244	273	180	242	199
WIPF3	0	1	0	0	4	0
WIP1	51	43	36	25	15	19
WIP12	270	286	307	394	369	385
WISP1	0	0	0	0	0	0
WISP2	0	0	0	13	4	0
WISP3	0	0	0	1	0	0
WIZ	51	52	55	117	65	98
WLS	15	13	14	0	4	0
WNK1	956	951	865	853	854	895
WNK2	0	0	0	0	0	0
WNK3	0	2	1	0	7	13
WNK4	0	0	0	9	0	0
WNT1	0	0	0	0	0	0
WNT10A	7	15	8	6	7	3
WNT10B	9	6	2	9	4	0
WNT11	0	0	0	0	0	0
WNT16	4	0	0	1	9	8
WNT2	0	0	0	0	0	0
WNT2B	9	4	5	22	4	35
WNT3	4	0	0	0	0	0
WNT3A	0	0	0	0	0	0
WNT4	0	0	0	0	0	0
WNT5A	13	12	13	51	60	84
WNT5B	0	2	6	1	2	0
WNT6	0	0	0	0	0	0

WNT7A	1	11	5	16	2	0
WNT7B	0	0	0	0	0	0
WNT8A	0	0	0	0	0	0
WNT8B	0	0	0	0	0	0
WNT9A	0	0	1	0	0	0
WNT9B	0	0	0	0	0	0
WRAP53	1	6	7	1	4	3
WRAP73	34	47	40	79	54	30
WRB	38	37	28	25	15	0
WRN	97	94	74	171	103	107
WRNIP1	225	249	260	221	263	196
WSB1	1110	1163	1044	1182	1132	1092
WSB2	103	106	113	19	33	24
WSCD1	0	0	0	0	0	0
WSCD2	0	0	0	0	0	0
WT1	0	0	0	0	0	3
WT1-AS	0	0	0	6	0	8
WTAP	480	481	454	563	617	573
WTIP	5	1	3	16	41	71
WWC1	0	0	0	0	0	3
WWC2	59	60	59	48	67	94
WWC3	291	291	326	351	335	314
WWOX	15	14	18	13	24	46
WWP1	419	460	447	638	539	554
WWP2	152	184	162	141	174	117
WWTR1	2	1	2	16	4	3
WWTR1-AS1	0	0	0	0	0	0
XAB2	0	0	2	0	0	0
XAF1	427	470	426	259	212	185
XAGE1A	0	0	0	0	0	0
XAGE1B	0	0	0	0	0	0
XAGE2	0	0	0	0	0	0
XAGE3	0	0	0	0	0	0
XAGE5	0	0	0	0	0	0
XBP1	345	325	264	209	249	192
XCL1	31	32	14	63	18	75
XCL2	14	14	14	16	18	19
XCR1	0	0	0	0	0	0
XDH	0	0	0	0	0	0
XG	0	0	0	4	2	0
XIAP	452	454	444	380	350	393
XIRP1	0	0	0	0	0	0
XIRP2	2	0	1	0	2	0
XIST	5	1	1	37	33	24
XK	2	0	0	0	2	3
XKR3	0	0	0	0	0	0
XKR4	0	4	6	19	18	40
XKR5	0	0	0	0	0	0
XKR6	17	17	17	43	43	66
XKR7	0	0	0	0	0	0
XKR8	30	24	20	22	24	8
XKR9	1	1	1	0	2	0
XKRX	0	0	0	0	0	0
XPA	174	141	145	114	153	84
XPC	276	282	254	456	389	379
XPNPPEP1	80	78	80	76	35	46
XPNPPEP2	0	0	0	0	0	0
XPNPPEP3	31	21	20	56	52	56
XPO1	376	298	305	327	321	393
XPO4	84	77	78	123	129	107
XPO5	37	48	39	51	62	30
XPO6	93	86	99	98	84	89
XPO7	139	199	210	192	172	188
XPOT	79	98	109	127	113	132
XPR1	75	60	72	60	60	61
XRCC1	12	11	15	1	2	3
XRCC2	1	2	1	0	0	0
XRCC3	0	0	0	0	0	0
XRCC4	45	52	39	31	35	19
XRCC5	1037	957	892	1067	1058	1125
XRCC6	130	150	134	199	189	196
XRN1	614	560	610	770	641	862
XRN2	512	519	604	659	678	687
XRRA1	34	34	39	58	46	40
XXYLT1	7	9	3	4	4	3
XYLB	4	4	9	4	2	0
XYLT1	190	191	166	199	195	192
XYLT2	32	34	35	34	33	19
YAF2	129	125	155	145	189	185
YAP1	0	0	2	1	2	8
YARS	158	154	190	234	240	275
YARS2	13	17	17	19	12	8
YBEY	17	15	20	63	49	66
YBX1	589	543	455	557	473	518
YBX2	0	0	0	0	0	0
YDJC	30	32	29	40	46	46
YEATS2	162	155	160	125	135	71
YEATS4	183	214	230	151	181	147
YES1	15	20	20	22	27	35
YIF1A	60	73	52	19	33	13
YIF1B	10	14	6	4	7	0
YIPF1	72	58	72	48	57	46
YIPF2	23	37	31	9	21	0
YIPF3	79	91	99	58	92	46
YIPF4	341	347	328	339	323	343
YIPF5	195	214	189	285	309	385
YIPF6	115	100	120	90	82	112
YIPF7	0	0	0	0	0	0
YJEFN3	1	0	3	25	18	3
YKT6	170	187	176	211	238	227
YLPM1	444	422	503	563	481	624
YME1L1	367	315	346	416	405	355
YOD1	32	26	29	25	9	3

YPEL1	39	47	46	40	69	71
YPEL2	129	135	147	173	166	165
YPEL3	157	170	171	192	187	179
YPEL4	9	21	14	1	0	3
YPEL5	338	306	291	354	417	432
YRDC	102	115	85	159	151	176
YTHDC1	690	686	749	1329	1197	1469
YTHDC2	252	251	238	319	328	271
YTHDF1	104	139	127	271	238	251
YTHDF2	230	215	158	300	270	335
YTHDF3	327	337	272	340	335	321
YWHAB	3048	2807	2836	1912	2173	1564
YWHAE	402	385	426	333	332	393
YWHAG	575	480	429	300	338	308
YWHAH	250	221	192	125	100	84
YWHAQ	240	236	206	278	249	216
YWHAZ	841	850	787	966	866	983
YY1	1092	1091	1060	1166	1132	1163
YY1AP1	115	107	116	179	158	165
YY2	0	2	0	1	0	0
ZACN	0	0	0	0	0	0
ZADH2	140	133	121	309	245	291
ZAN	0	0	0	0	0	0
ZAP70	25	33	48	69	57	30
ZAR1	0	0	0	0	0	0
ZAR1L	0	0	0	13	2	0
ZBBX	1	0	0	1	0	0
ZBED1	152	181	142	103	115	107
ZBED2	2	1	8	4	15	3
ZBED3	7	15	12	9	9	13
ZBED4	133	102	155	165	113	136
ZBED5	152	136	136	203	189	230
ZBED6	0	0	0	0	0	0
ZBP1	24	22	18	9	18	13
ZBTB1	431	406	384	501	450	529
ZBTB10	150	151	132	134	135	158
ZBTB11	376	339	361	622	501	602
ZBTB12	0	0	0	0	0	0
ZBTB16	18	13	26	28	38	46
ZBTB17	24	29	35	13	12	24
ZBTB2	135	126	132	296	238	264
ZBTB20	390	421	569	643	520	751
ZBTB20-AS1	1	2	0	19	18	35
ZBTB22	48	72	67	28	46	46
ZBTB24	139	108	129	217	179	196
ZBTB25	215	224	260	375	311	425
ZBTB26	24	13	12	19	24	30
ZBTB3	24	29	23	4	15	8
ZBTB32	1	8	7	0	2	0
ZBTB33	132	127	144	129	179	147
ZBTB34	45	50	37	34	18	40
ZBTB37	123	114	121	90	87	79
ZBTB38	495	523	511	416	473	470
ZBTB39	56	48	42	48	43	84
ZBTB4	266	251	302	394	354	337
ZBTB40	107	93	123	177	120	158
ZBTB41	148	132	137	129	97	107
ZBTB42	25	9	7	6	0	0
ZBTB43	225	188	233	343	362	495
ZBTB44	724	628	679	844	838	751
ZBTB45	20	21	30	4	18	3
ZBTB46	17	16	9	1	0	8
ZBTB47	1	0	0	0	0	0
ZBTB48	5	12	5	9	7	0
ZBTB49	30	39	29	53	46	40
ZBTB5	64	62	79	72	75	56
ZBTB6	49	54	32	95	100	107
ZBTB7A	990	949	1144	863	859	843
ZBTB7B	90	86	104	45	43	56
ZBTB7C	0	0	0	0	0	3
ZBTB8A	0	1	0	4	9	0
ZBTB8B	1	0	0	9	7	24
ZBTB8OS	106	125	124	145	140	169
ZBTB9	2	4	7	0	9	3
ZC2HC1A	104	92	98	84	90	151
ZC2HC1B	0	0	0	0	0	0
ZC2HC1C	0	1	0	0	7	0
ZC3H10	30	33	43	43	35	30
ZC3H11A	1	0	0	0	0	0
ZC3H12A	80	90	82	98	97	79
ZC3H12B	5	6	6	28	12	3
ZC3H12C	21	32	30	6	7	3
ZC3H12D	80	98	95	230	203	271
ZC3H13	760	755	827	962	930	892
ZC3H14	201	182	217	259	252	230
ZC3H15	757	745	767	888	859	987
ZC3H18	208	266	273	274	378	335
ZC3H3	7	9	14	22	7	3
ZC3H4	198	182	179	481	401	554
ZC3H6	476	537	550	1144	1068	1238
ZC3H7A	383	404	383	755	718	738
ZC3H7B	113	115	107	153	120	151
ZC3H8	140	105	115	175	179	176
ZC3HAV1	1153	1153	1190	1478	1421	1694
ZC3HAV1L	0	0	1	0	0	0
ZC3HC1	22	23	17	28	9	35
ZC4H2	17	9	26	25	24	46
ZCCHC10	212	228	215	193	214	182
ZCCHC12	0	0	0	0	0	3
ZCCHC13	0	0	0	0	0	0
ZCCHC14	77	71	57	112	97	136
ZCCHC17	125	120	111	123	185	143
ZCCHC18	17	19	18	22	27	24

ZCCHC2	471	455	483	339	319	329
ZCCHC24	52	33	51	13	15	24
ZCCHC3	160	213	179	203	232	245
ZCCHC4	22	21	34	31	41	61
ZCCHC7	135	107	124	217	179	188
ZCCHC8	252	297	266	340	359	348
ZCCHC9	122	117	124	117	131	107
ZCRB1	316	298	313	329	332	415
ZCWPW1	32	39	31	117	75	136
ZCWPW2	2	7	2	19	15	40
ZDBF2	88	82	83	121	124	128
ZDHHC1	0	0	0	0	0	0
ZDHHC11	1	0	0	25	4	8
ZDHHC12	29	37	41	1	4	0
ZDHHC13	62	78	78	60	49	71
ZDHHC14	50	42	45	134	140	165
ZDHHC15	0	0	0	0	2	0
ZDHHC16	14	23	18	4	9	0
ZDHHC17	147	131	172	207	191	199
ZDHHC18	63	49	60	63	54	46
ZDHHC19	0	0	0	0	0	0
ZDHHC2	103	93	80	141	140	154
ZDHHC20	552	521	435	228	232	176
ZDHHC21	108	93	82	100	67	75
ZDHHC22	0	0	0	0	0	0
ZDHHC23	15	12	14	13	12	8
ZDHHC24	74	87	77	123	106	71
ZDHHC3	133	127	109	90	115	103
ZDHHC4	35	32	41	31	62	30
ZDHHC5	140	104	107	171	106	112
ZDHHC6	135	135	145	103	97	121
ZDHHC7	364	344	326	192	221	176
ZDHHC8	34	49	36	40	67	19
ZDHHHC8P1	0	0	0	0	0	0
ZDHHC9	29	31	23	9	52	0
ZEB1	238	210	200	502	438	546
ZEB1-AS1	10	7	1	25	30	24
ZEB2	778	663	904	424	483	534
ZEB2-AS1	17	8	14	25	7	13
ZER1	26	14	24	34	49	13
ZFAND1	106	115	128	209	201	185
ZFAND2A	29	28	30	45	60	30
ZFAND2B	62	45	60	16	41	8
ZFAND3	183	202	155	245	240	241
ZFAND4	32	49	31	40	21	35
ZFAND5	716	643	488	515	637	521
ZFAND6	252	241	212	290	257	267
ZFAT	21	19	23	9	12	0
ZFAT-AS1	0	0	0	0	0	0
ZFC3H1	386	362	397	675	456	717
ZFHX2	4	2	1	13	4	3
ZFHX3	114	128	160	34	52	61
ZFHX4	0	2	1	6	15	24
ZFP1	42	35	48	40	38	35
ZFP14	78	52	62	153	140	143
ZFP2	0	0	0	16	7	13
ZFP28	6	2	6	9	2	0
ZFP3	17	7	12	9	12	13
ZFP30	48	33	25	110	84	112
ZFP36	502	625	566	264	297	352
ZFP36L1	2372	2303	2427	1702	1582	1685
ZFP36L2	2110	1978	1956	1322	1528	1056
ZFP37	17	16	15	16	24	24
ZFP41	1	8	11	19	7	13
ZFP42	0	0	0	0	0	0
ZFP57	0	0	0	0	0	0
ZFP62	135	122	84	184	212	136
ZFP64	37	28	39	28	24	35
ZFP82	12	13	8	34	62	30
ZFP90	47	57	31	103	82	56
ZFP91	574	591	586	607	553	691
ZFP91-CNTF	0	0	0	0	0	0
ZFP92	4	0	2	0	0	0
ZFPL1	23	30	26	13	15	0
ZFPM1	10	11	8	31	18	40
ZFPM2	0	0	0	0	2	0
ZFR	358	355	416	590	535	647
ZFR2	2	1	0	13	2	0
ZFX	221	189	235	358	338	321
ZFY	129	104	103	180	155	216
ZFYVE1	28	28	20	28	54	46
ZFYVE16	378	289	362	117	120	71
ZFYVE19	20	30	18	22	9	3
ZFYVE21	36	39	50	6	7	8
ZFYVE26	35	30	34	40	15	40
ZFYVE27	74	61	98	98	92	56
ZFYVE28	139	146	212	329	325	459
ZFYVE9	17	21	17	45	12	19
ZG16	0	0	2	4	0	13
ZG16B	7	5	1	0	0	8
ZGLP1	0	6	3	1	0	3
ZGPAT	0	2	0	0	0	0
ZHX1	191	166	177	184	170	213
ZHX2	29	24	23	51	38	46
ZHX3	11	7	8	0	0	3
ZIC1	0	0	0	0	0	0
ZIC2	0	0	0	0	0	0
ZIC3	0	0	0	0	0	0
ZIC4	0	0	0	0	0	0
ZIC5	0	4	6	9	7	35
ZIK1	13	13	7	48	35	66
ZIM2	0	0	0	4	4	3
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ZKSCAN1	264	258	279	354	345	312
ZKSCAN2	7	8	1	6	18	13
ZKSCAN3	19	14	21	9	15	3
ZKSCAN4	14	19	13	19	27	24
ZKSCAN5	34	39	29	60	60	71
ZMAT1	220	244	263	409	292	595
ZMAT2	773	838	785	1109	1223	1085
ZMAT3	190	202	173	159	189	154
ZMAT4	1	0	0	0	2	0
ZMAT5	6	4	6	16	7	3
ZMIZ1	394	359	397	98	124	136
ZMIZ2	59	52	52	43	18	3
ZMPSTE24	100	96	77	58	79	71
ZMYM1	55	50	52	56	33	24
ZMYM2	261	239	311	375	279	408
ZMYM3	123	172	151	149	135	121
ZMYM4	165	111	138	199	159	185
ZMYM5	79	80	69	151	95	103
ZMYM6	97	101	97	121	65	128
ZMYND10	0	0	0	19	4	3
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ZMYND12	0	0	0	0	0	0
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ZMYND8	236	237	263	288	295	308
ZNF10	17	11	8	16	15	35
ZNF100	54	65	65	37	49	35
ZNF101	231	233	229	504	463	573
ZNF107	61	49	58	45	75	56
ZNF114	0	0	0	13	2	3
ZNF117	38	19	31	56	30	89
ZNF12	171	159	167	397	345	442
ZNF121	142	137	138	213	174	196
ZNF124	25	20	28	31	24	24
ZNF131	263	251	243	383	343	369
ZNF132	0	0	0	0	0	0
ZNF133	6	11	13	25	21	13
ZNF134	44	46	40	74	60	89
ZNF135	0	4	1	1	2	0
ZNF136	77	70	65	134	100	128
ZNF137P	0	0	0	0	0	0
ZNF138	23	21	21	19	30	13
ZNF14	22	16	21	69	46	66
ZNF140	54	54	40	82	92	79
ZNF141	42	26	34	72	67	89
ZNF142	28	31	24	16	21	8
ZNF143	129	126	96	151	122	213
ZNF146	390	437	353	723	706	704
ZNF148	707	645	631	813	789	824
ZNF154	12	16	14	13	7	0
ZNF155	4	12	2	13	21	3
ZNF157	0	0	0	0	0	0
ZNF16	18	14	18	25	21	35
ZNF160	90	96	91	153	137	128
ZNF165	0	2	3	1	0	0
ZNF169	22	21	28	28	9	56
ZNF17	21	22	28	28	33	46
ZNF174	38	29	36	56	67	56
ZNF175	28	34	28	40	69	51
ZNF177	0	0	0	0	0	0
ZNF18	2	5	2	0	4	0
ZNF180	52	50	50	121	108	136
ZNF181	59	37	59	82	106	136
ZNF182	64	43	42	63	72	89
ZNF184	54	43	45	84	79	84
ZNF185	21	28	12	22	7	8
ZNF189	63	61	58	108	117	173
ZNF19	4	12	8	9	12	8
ZNF195	72	50	52	43	49	30
ZNF197	45	32	28	53	75	46
ZNF2	14	16	3	13	15	13
ZNF20	1	1	1	0	0	3
ZNF200	75	92	96	129	181	139
ZNF202	21	26	6	40	46	46
ZNF204P	31	41	34	82	30	51
ZNF205	0	4	6	0	0	0
ZNF207	670	631	666	585	491	616
ZNF208	0	0	2	0	0	0
ZNF211	22	24	22	22	35	40
ZNF212	24	40	37	37	62	46
ZNF213	2	2	5	0	0	0
ZNF214	0	0	0	0	0	0
ZNF215	2	6	1	1	21	0
ZNF217	399	428	492	383	443	383
ZNF219	30	21	22	16	7	30
ZNF22	221	222	220	237	305	245
ZNF221	0	0	0	0	0	0
ZNF222	14	12	12	25	21	19
ZNF223	9	7	12	0	7	3
ZNF224	60	49	66	100	90	84
ZNF225	29	16	20	28	9	30
ZNF226	102	77	67	84	129	40
ZNF227	95	77	85	141	113	124
ZNF229	0	1	1	9	2	3
ZNF23	0	0	0	1	0	0
ZNF230	31	42	26	37	21	30
ZNF232	20	22	14	25	43	13
ZNF233	0	0	0	0	0	0
ZNF234	55	66	59	112	87	128
ZNF235	5	2	9	1	2	3
ZNF236	92	79	91	147	108	147
ZNF239	0	0	3	6	2	3
ZNF24	880	936	859	866	922	944

ZNF248	46	28	26	58	54	75
ZNF25	111	95	112	151	153	230
ZNF250	5	11	7	34	21	3
ZNF251	10	15	24	48	54	75
ZNF253	42	28	32	43	49	84
ZNF254	24	23	21	28	33	40
ZNF256	5	7	3	6	2	3
ZNF257	7	13	15	31	18	46
ZNF26	92	77	90	203	151	220
ZNF260	50	50	31	63	69	71
ZNF263	80	78	62	141	153	136
ZNF264	192	168	207	285	272	220
ZNF266	66	72	59	129	127	169
ZNF267	270	260	263	430	410	626
ZNF268	55	70	75	197	140	230
ZNF273	39	32	37	31	49	24
ZNF274	72	58	67	79	97	98
ZNF275	42	54	55	90	79	89
ZNF276	52	72	69	72	87	79
ZNF277	74	50	65	82	92	98
ZNF28	54	57	59	63	49	40
ZNF280A	0	0	0	0	0	0
ZNF280B	18	17	20	31	21	19
ZNF280C	13	8	16	0	9	0
ZNF280D	94	79	85	69	92	98
ZNF281	472	418	420	402	373	432
ZNF282	18	23	20	6	9	3
ZNF283	11	5	17	28	24	13
ZNF284	15	23	9	4	7	13
ZNF285	1	1	2	0	0	0
ZNF286A	7	2	12	4	4	0
ZNF286B	1	0	0	1	2	0
ZNF287	6	5	11	4	4	8
ZNF292	938	854	1007	1085	1105	1042
ZNF295-AS1	0	0	0	0	0	0
ZNF296	7	7	2	0	0	0
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ZNF30	12	12	6	13	2	3
ZNF300	6	5	5	25	15	35
ZNF300P1	0	0	0	19	7	8
ZNF302	94	86	98	232	195	245
ZNF304	17	23	22	121	92	147
ZNF311	4	0	1	1	0	3
ZNF317	29	24	21	40	41	24
ZNF318	217	219	226	153	185	196
ZNF319	48	40	34	22	52	46
ZNF32	34	24	24	43	41	61
ZNF32-AS3	0	0	0	0	0	0
ZNF320	0	0	0	0	0	0
ZNF321P	1	6	11	0	0	0
ZNF322	12	20	17	16	15	3
ZNF324	9	20	7	37	33	8
ZNF324B	0	2	3	0	4	0
ZNF326	198	174	194	369	236	405
ZNF329	19	20	15	37	46	40
ZNF330	215	195	175	167	203	264
ZNF331	90	102	103	145	108	179
ZNF333	44	32	39	56	38	79
ZNF334	1	0	0	0	0	0
ZNF335	55	57	53	95	67	121
ZNF337	52	40	50	127	95	124
ZNF33A	206	213	249	243	276	233
ZNF33B	113	143	109	190	168	154
ZNF34	15	16	9	25	9	40
ZNF341	13	11	15	13	2	19
ZNF343	5	6	9	9	4	0
ZNF345	60	31	44	51	49	46
ZNF346	9	9	13	13	9	3
ZNF347	23	32	25	82	46	40
ZNF35	9	4	3	9	4	3
ZNF350	41	41	37	79	72	151
ZNF354A	62	57	45	66	57	61
ZNF354B	26	16	25	22	27	24
ZNF354C	72	73	75	134	137	112
ZNF358	17	13	32	43	33	51
ZNF362	49	52	53	90	75	89
ZNF365	2	5	2	0	0	0
ZNF366	1	7	2	4	4	0
ZNF367	18	21	34	13	43	24
ZNF37A	129	108	104	317	252	321
ZNF37BP	84	73	80	243	170	251
ZNF382	10	15	11	53	27	79
ZNF383	45	46	66	197	179	165
ZNF384	63	63	77	87	103	98
ZNF385A	21	14	18	0	0	0
ZNF385B	0	1	0	0	0	3
ZNF385C	0	0	0	0	2	0
ZNF385D	12	20	14	66	62	117
ZNF391	4	5	1	6	7	0
ZNF394	54	60	45	66	57	117
ZNF395	417	462	507	363	466	405
ZNF396	4	1	7	4	0	0
ZNF397	103	91	113	248	177	233
ZNF398	42	46	48	56	38	40
ZNF404	11	9	7	13	2	3
ZNF407	64	58	94	155	108	173
ZNF408	10	13	9	31	27	51
ZNF41	13	9	17	4	4	19
ZNF410	1	5	1	6	2	8
ZNF414	25	22	29	9	21	8
ZNF415	0	0	1	0	0	13
ZNF416	0	0	2	0	7	0
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ZNF418	0	2	1	1	0	0
ZNF419	30	42	32	100	90	89
ZNF420	63	55	50	69	113	98
ZNF423	0	0	0	0	0	0
ZNF425	5	0	5	34	24	46
ZNF426	37	46	37	31	54	71
ZNF428	150	208	234	141	240	103
ZNF429	24	22	14	40	49	46
ZNF43	46	43	43	82	57	94
ZNF430	136	115	130	147	124	173
ZNF431	111	111	96	213	162	176
ZNF432	45	38	61	76	77	94
ZNF433	2	0	1	0	0	0
ZNF436	15	17	11	25	15	0
ZNF438	87	69	57	6	27	19
ZNF439	20	16	22	28	24	8
ZNF44	70	65	55	112	117	143
ZNF440	13	15	14	16	18	3
ZNF441	22	24	15	72	52	51
ZNF442	2	1	6	9	18	0
ZNF443	5	4	0	0	0	0
ZNF444	21	13	20	31	27	35
ZNF445	54	50	69	151	100	147
ZNF446	10	7	7	4	4	0
ZNF449	32	29	31	28	41	40
ZNF45	36	26	34	51	21	24
ZNF451	351	328	413	581	617	610
ZNF454	0	0	0	1	0	0
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ZNF461	9	9	12	31	33	30
ZNF462	2	2	7	6	4	0
ZNF467	12	23	13	0	0	0
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ZNF469	2	1	3	6	0	3
ZNF470	11	14	11	19	12	13
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ZNF474	0	0	0	0	0	0
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ZNF480	74	72	69	110	97	103
ZNF483	1	5	3	22	2	35
ZNF484	21	16	22	13	21	19
ZNF485	7	8	8	4	9	8
ZNF486	31	25	32	40	33	35
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ZNF492	0	0	0	0	2	0
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ZNF496	12	13	17	31	27	13
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ZNF500	23	24	9	53	57	75
ZNF501	6	14	6	25	24	40
ZNF502	6	5	6	28	21	19
ZNF503	22	22	15	3	4	5
ZNF503-AS1	0	0	0	0	0	0
ZNF503-AS2	1	0	0	0	0	0
ZNF506	60	49	53	66	57	84
ZNF507	67	65	85	136	113	128
ZNF510	21	28	20	19	21	19
ZNF511	32	24	37	13	21	0
ZNF512	64	37	65	129	82	107
ZNF512B	26	25	26	28	21	24
ZNF513	7	14	17	13	0	0
ZNF514	24	12	18	25	27	66
ZNF516	45	40	36	0	4	3
ZNF517	1	0	0	0	0	0
ZNF518A	195	202	213	161	144	241
ZNF518B	119	132	116	108	108	112
ZNF519	17	20	23	9	4	40
ZNF521	5	11	12	40	43	66
ZNF524	23	26	28	13	21	0
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ZNF526	24	25	26	40	60	24
ZNF527	21	42	36	45	33	30
ZNF528	17	22	20	66	67	84
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ZNF536	5	4	1	16	24	46
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ZNF550	85	100	89	219	257	254
ZNF551	32	54	44	69	100	98
ZNF552	17	31	17	16	0	8
ZNF554	5	11	6	13	21	8
ZNF555	18	28	23	53	18	35
ZNF556	0	0	1	1	9	13
ZNF557	60	70	54	136	179	147
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ZNF559	35	30	32	51	41	46
ZNF559-ZNF177	0	0	0	0	0	0
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ZNF561	41	40	36	45	62	46
ZNF562	49	68	48	84	72	56

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ZNF564	5	2	7	0	2	3
ZNF565	4	2	1	0	0	3
ZNF566	37	37	37	53	62	56
ZNF567	42	33	52	103	97	154
ZNF568	18	24	18	51	35	30
ZNF569	31	26	30	53	75	35
ZNF57	5	6	11	0	7	0
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ZNF571	19	16	11	51	57	40
ZNF572	4	4	3	4	4	0
ZNF573	55	43	51	103	106	124
ZNF574	13	15	14	4	12	19
ZNF575	23	15	17	1	7	8
ZNF576	30	26	30	51	35	24
ZNF577	13	19	15	22	35	40
ZNF578	4	7	7	4	2	3
ZNF579	0	4	8	4	0	0
ZNF580	19	23	16	72	35	56
ZNF581	39	25	31	56	35	46
ZNF582	10	7	7	4	7	0
ZNF583	20	23	20	69	52	79
ZNF584	6	4	7	4	12	0
ZNF585A	32	25	36	119	111	158
ZNF585B	18	17	12	87	62	79
ZNF586	19	17	20	28	18	13
ZNF587	76	76	90	180	124	258
ZNF587B	31	40	36	45	35	24
ZNF589	14	17	35	16	30	8
ZNF592	55	66	75	48	54	89
ZNF593	25	24	24	4	15	0
ZNF594	7	2	11	22	18	30
ZNF595	10	9	3	16	7	3
ZNF596	6	4	2	37	9	8
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ZNF599	19	14	16	48	21	56
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ZNF605	95	98	91	226	147	213
ZNF606	12	16	17	40	46	46
ZNF607	1	8	7	25	2	0
ZNF608	12	14	3	16	12	13
ZNF609	139	124	140	219	221	267
ZNF610	5	8	2	31	9	79
ZNF611	94	83	82	127	100	132
ZNF613	11	9	8	6	4	0
ZNF614	47	48	36	72	72	79
ZNF615	35	32	25	31	54	46
ZNF616	17	12	16	13	15	19
ZNF618	30	22	40	6	4	13
ZNF619	7	12	13	16	21	56
ZNF620	9	1	0	9	0	13
ZNF621	98	65	95	117	77	147
ZNF622	40	39	39	51	43	51
ZNF623	77	61	52	110	120	124
ZNF624	35	47	29	53	54	40
ZNF625	0	0	0	0	0	0
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ZNF626	35	24	12	87	52	112
ZNF627	23	12	20	58	33	56
ZNF628	2	4	5	0	0	0
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ZNF638	465	425	496	677	646	649
ZNF639	106	117	133	167	140	147
ZNF641	58	48	40	22	24	8
ZNF644	292	272	254	444	387	444
ZNF646	24	24	23	22	12	8
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ZNF649	18	34	25	45	60	40
ZNF652	227	245	251	323	326	343
ZNF653	2	11	6	9	7	0
ZNF654	159	111	140	163	164	207
ZNF655	259	249	252	333	300	271
ZNF658	4	5	1	28	2	0
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ZNF662	0	0	3	0	0	3
ZNF664	133	115	91	151	159	165
ZNF665	1	2	0	6	4	35
ZNF667	5	1	1	4	4	3
ZNF668	4	6	2	0	9	0
ZNF669	6	2	6	6	2	8
ZNF670	0	2	0	0	0	0
ZNF671	22	14	14	28	18	40
ZNF672	19	21	28	25	30	3
ZNF674	30	29	28	16	18	0
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ZNF676	0	0	0	0	0	0
ZNF677	25	24	8	69	49	46
ZNF678	25	30	34	9	12	3
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ZNF681	19	4	11	22	24	3
ZNF682	17	26	24	34	43	35
ZNF683	42	65	67	37	38	24
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ZNF688	52	48	57	100	87	89
ZNF689	54	49	42	69	90	107
ZNF69	6	1	2	13	2	0
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ZNF695	0	0	0	0	0	0
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ZNF699	7	2	0	0	2	0
ZNF7	18	21	16	58	33	71
ZNF70	11	21	12	9	15	0
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ZNF701	41	52	46	9	24	40
ZNF702P	21	17	16	6	7	8
ZNF703	5	6	14	1	0	0
ZNF704	20	21	20	28	12	13
ZNF705A	0	0	0	0	0	8
ZNF705D	0	0	0	0	0	0
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ZNF706	172	153	154	143	127	121
ZNF707	9	7	7	9	12	19
ZNF708	118	109	104	179	172	203
ZNF709	2	4	0	6	12	13
ZNF71	26	22	18	34	33	13
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ZNF713	0	4	1	1	7	8
ZNF714	26	29	25	51	57	19
ZNF716	1	0	0	6	0	13
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ZNF718	17	14	14	28	7	24
ZNF720	151	132	133	167	137	213
ZNF721	132	127	133	165	135	165
ZNF726	6	5	7	0	2	3
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ZNF729	0	0	0	0	0	0
ZNF732	0	0	0	0	0	0
ZNF736	90	62	63	139	90	154
ZNF737	1	5	2	6	4	3
ZNF738	30	20	36	31	43	35
ZNF74	34	26	36	28	46	3
ZNF740	99	86	106	74	90	46
ZNF746	77	69	74	98	67	71
ZNF747	11	6	11	22	18	13
ZNF749	0	0	0	0	0	3
ZNF750	0	0	0	4	0	0
ZNF75A	75	54	60	100	57	98
ZNF75D	99	100	93	266	223	216
ZNF76	50	66	65	66	79	40
ZNF761	55	50	43	114	90	154
ZNF763	0	1	1	25	2	24
ZNF764	28	24	23	9	33	19
ZNF765	41	32	25	48	38	71
ZNF766	104	120	105	239	217	241
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ZNF77	10	8	15	43	33	75
ZNF770	488	439	451	677	689	753
ZNF771	5	5	6	9	7	30
ZNF772	29	20	20	40	46	61
ZNF773	4	2	2	22	41	13
ZNF774	0	0	2	0	2	3
ZNF775	10	11	5	6	4	13
ZNF776	88	88	90	114	168	117
ZNF777	26	23	40	58	62	61
ZNF778	9	9	5	4	9	24
ZNF780A	40	28	31	63	62	56
ZNF780B	65	48	77	157	137	147
ZNF781	4	5	7	6	4	8
ZNF782	13	7	7	16	12	8
ZNF783	13	7	17	34	12	24
ZNF784	13	8	8	0	0	0
ZNF785	20	22	28	13	38	24
ZNF786	39	52	48	72	77	40
ZNF787	28	54	54	34	35	61
ZNF789	11	7	12	4	4	3
ZNF79	4	4	2	1	4	0
ZNF790	9	15	12	45	35	35
ZNF791	99	102	141	209	164	203
ZNF792	13	17	18	28	9	3
ZNF793	10	14	15	37	49	46
ZNF799	13	17	16	9	12	0
ZNF8	41	32	26	60	65	66
ZNF80	28	24	25	40	57	46
ZNF800	270	223	316	515	300	411
ZNF804A	25	25	31	4	2	8
ZNF804B	0	0	0	0	0	0
ZNF805	12	7	11	6	7	13
ZNF808	100	82	101	90	87	132
ZNF81	13	6	5	16	4	3
ZNF813	30	19	23	51	35	13
ZNF814	14	15	12	19	27	24
ZNF816	7	4	7	9	9	0
ZNF816-ZNF321P	0	0	0	0	0	0
ZNF821	11	12	15	43	27	24
ZNF823	10	2	6	0	4	0
ZNF826P	5	4	1	1	2	3
ZNF827	190	171	239	329	397	379
ZNF829	40	24	30	48	72	30
ZNF83	58	60	61	136	95	89
ZNF830	216	200	185	268	354	285
ZNF831	85	97	97	319	245	245
ZNF833P	0	0	0	0	0	0
ZNF835	2	0	0	0	0	0
ZNF836	24	38	21	40	33	40
ZNF837	0	1	1	0	2	0
ZNF839	48	49	66	60	62	61
ZNF84	46	41	35	82	60	71
ZNF841	2	8	3	16	12	3

ZNF843	0	1	0	19	9	35
ZNF844	23	25	17	40	21	24
ZNF845	12	17	14	45	15	13
ZNF846	5	4	3	6	7	19
ZNF847P	0	0	0	0	0	0
ZNF85	15	29	11	9	7	24
ZNF850	7	8	14	6	18	13
ZNF853	9	2	2	4	2	3
ZNF860	4	2	5	16	15	8
ZNF862	51	54	41	129	117	84
ZNF865	23	21	37	13	27	3
ZNF876P	1	2	3	0	0	0
ZNF878	0	0	0	0	0	0
ZNF879	2	1	7	13	4	19
ZNF880	19	6	12	6	0	3
ZNF883	0	0	0	0	0	0
ZNF890P	0	0	0	0	0	0
ZNF90	5	12	9	6	12	8
ZNF91	76	80	61	226	147	251
ZNF92	78	65	65	87	72	98
ZNF93	6	9	13	4	4	0
ZNF98	0	0	0	0	0	0
ZNF99	0	0	0	0	0	0
ZNFX1	350	362	379	415	478	425
ZNHIT1	58	74	59	60	46	13
ZNHIT2	9	7	12	13	7	19
ZNHIT3	130	141	113	179	166	132
ZNHIT6	175	200	210	252	219	285
ZNRD1	82	70	62	145	164	179
ZNRF1	21	20	25	45	41	46
ZNRF2	253	252	233	108	135	112
ZNRF2P1	0	0	0	0	0	0
ZNRF2P2	0	0	0	0	0	0
ZNRF3	4	5	6	37	15	84
ZNRF4	0	0	0	0	0	0
ZP1	0	0	0	0	0	0
ZP2	0	0	0	0	0	3
ZP3	0	0	0	0	0	0
ZP4	0	0	0	0	0	0
ZPBP	0	0	0	0	0	0
ZPBP2	0	0	1	0	0	0
ZPLD1	0	0	0	0	0	0
ZRANB1	150	141	145	221	242	267
ZRANB2	655	618	719	1133	967	1031
ZRANB2-AS1	0	0	0	0	0	0
ZRANB2-AS2	0	4	0	1	0	13
ZRANB3	13	9	7	25	15	19
ZRSR2	161	150	198	226	236	254
ZSCAN1	0	0	0	0	0	0
ZSCAN10	0	0	0	1	0	8
ZSCAN12	18	15	14	22	30	3
ZSCAN12P1	0	0	0	0	0	0
ZSCAN16	15	12	12	34	18	40
ZSCAN18	22	23	17	72	72	89
ZSCAN2	21	15	18	25	4	0
ZSCAN20	1	1	2	0	0	0
ZSCAN21	29	26	37	13	12	3
ZSCAN22	9	13	7	9	12	8
ZSCAN23	0	0	0	0	0	0
ZSCAN29	223	201	195	321	330	314
ZSCAN30	41	55	36	145	62	128
ZSCAN4	0	0	0	0	0	0
ZSCAN5A	15	34	26	16	33	3
ZSCAN5B	0	0	0	0	0	0
ZSWIM1	23	23	17	28	24	13
ZSWIM2	0	0	0	0	0	0
ZSWIM3	9	12	14	16	18	0
ZSWIM4	5	13	2	4	4	3
ZSWIM5	6	8	6	0	0	0
ZSWIM6	218	212	199	87	113	143
ZSWIM7	82	71	75	90	72	56
ZW10	72	102	68	87	106	61
ZWILCH	90	95	90	76	65	61
ZWINT	6	1	3	6	2	0
ZXDA	10	8	13	9	0	0
ZXDB	34	28	30	28	54	40
ZXDC	161	151	178	145	162	143
ZYG11A	0	0	0	0	0	0
ZYG11B	285	318	299	319	268	355
ZYX	88	111	115	34	18	8
ZZEF1	161	152	210	187	210	233

Genes	ID4.CTRL.T24.A_0700761761	ID4.CTRL.T24.B_0700761771	ID4.CTRL.T24.C_0700761781	ID10.MX4.T24.A_0700761941	ID10.MX4.T24.B_0700761951	ID10.MX4.T24.C_0700761961
A1BG	0	0	0	0	0	0
A1BG-AS1	3,700439718	3,169925001	3,321928095	2,807354922	3	0
A1CF	0	0	0	1	0	3,807354922
A2M	4,584962501	4,321928095	3	1	0	0
A2ML1	0	0	0	0	0	0
A2MP1	0	0	1	2,807354922	0	4,321928095
A4GALT	1,584962501	3,321928095	2,807354922	0	0	0
A4GNT	0	0	0	0	0	0
AAAS	4,247927513	3,807354922	3,584962501	2,807354922	2,321928095	3,807354922
AACS	5,247927513	5,584962501	5,882643049	5,614709844	5,64385619	4,64385619
AACSP1	0	0	0	3,807354922	2,321928095	3,169925001
AADAC	1,584962501	2,584962501	2	3,807354922	4,807354922	4,64385619
AADACL2	0	0	0	0	0	0
AADACL3	0	0	0	0	0	0
AADACL4	0	0	0	0	0	0
AADAT	0	0	0	2,321928095	3,700439718	3,807354922
AAGAB	6,807354922	6,807354922	7,011227255	6,700439718	7,022367813	6,754887502
AAK1	8,836050355	8,903881846	9,214319121	9,164906927	8,991521846	9,209453366
AAMP	7,95419631	8,13442632	7,906890596	7,693486957	8,139551352	7,276124405
AANAT	0	0	0	0	0	0
AARS	7,199672345	7,554588852	7,426264755	7,442943496	7,285402219	6,409390936
AARS2	2,584962501	2,321928095	2,584962501	3,321928095	1,584962501	0
AARSD1	2,584962501	2,807354922	2,584962501	1	4,807354922	3,807354922
AASDH	6,554588852	6,339850003	6,64385619	6,459431619	6,807354922	5,554588852
AASDHPPT	7,912889336	7,813781191	7,475733431	8,339850003	8,233619677	8,475733431
AASS	1,584962501	2,321928095	2	2,321928095	3	2
AATF	6,392317423	6,569855608	6,375039431	6,95419631	6,50779464	6,569855608
AATK	5,321928095	5,882643049	5	2,807354922	1,584962501	2
ABAT	5,044394119	4,700439718	4,906890596	5,930737338	5,459431619	6,321928095
ABCA1	7,129283017	7,257387843	7,21916852	4,857980995	4,459431619	4,321928095
ABCA10	2,321928095	3,169925001	3,169925001	3,321928095	4,64385619	3,807354922
ABCA11P	1,584962501	1,584962501	1,584962501	5,459431619	4	5,357552005
ABCA12	1,584962501	0	0	1	1,584962501	3,807354922
ABCA13	0	2,807354922	2,807354922	5,129283017	4,807354922	5,554588852
ABCA17P	0	0	0	0	2,321928095	3,169925001
ABCA2	3,906890596	4,169925001	4,754887502	2,807354922	4,247927513	4,321928095
ABCA3	0	1	0	0	0	2
ABCA4	0	0	0	0	0	0
ABCA5	7,257387843	7,199672345	7,375039431	7,303780748	6,768184325	7,276124405
ABCA6	3,459431619	2,321928095	2,584962501	3,321928095	3,700439718	4,64385619
ABCA7	5,247927513	5	5,807354922	5,357552005	5,087462841	5,169925001
ABCA8	2,321928095	0	3,700439718	3,321928095	0	4,95419631
ABCA9	3,321928095	0	1	5	3,700439718	5,832890014
ABCB1	6,426264755	6,087462841	6,266786541	6,906890596	7,247927513	7,348728154
ABCB10	5,285402219	5,044394119	5,523561956	5	4,459431619	4,95419631
ABCB11	2,321928095	0	1	2,807354922	4	4,321928095
ABCB4	3,584962501	3,807354922	3,807354922	6	5,087462841	6,247927513
ABCB5	0	0	0	2,321928095	1,584962501	4,321928095
ABCB6	2,321928095	0	1	2,807354922	0	0
ABCB7	7,129283017	7,033423002	7,276124405	7,076815597	7,366322214	7,011227255
ABCB8	3,700439718	3	3,906890596	2,807354922	3,321928095	0
ABCB9	2,321928095	1	0	2,807354922	1,584962501	0
ABCC1	6,930737338	6,672425342	7,209453366	6,977279923	6,539158811	7,539158811
ABCC10	5,044394119	5,285402219	4,584962501	3,321928095	2,321928095	0
ABCC11	0	0	0	0	0	0
ABCC12	0	0	0	0	0	0
ABCC13	2,584962501	2,321928095	3	3,807354922	5,64385619	5,95419631

ABCC2	0	3,169925001	2,807354922	5,882643049	5,169925001	7,209453366
ABCC3	5	5,554588852	5,459431619	0	3,321928095	0
ABCC4	6,22881869	6,06608919	5,754887502	6	5,392317423	5,357552005
ABCC5	6,189824559	6,266786541	6,459431619	6,459431619	6,658211483	6,247927513
ABCC6	0	1	0	0	0	0
ABCC6P1	0	2,584962501	1,584962501	3,321928095	2,321928095	5,169925001
ABCC6P2	0	0	0	0	0	0
ABCC8	0	0	0	0	0	3,169925001
ABCC9	4,169925001	4,392317423	3,807354922	6,845490051	7,108524457	7,491853096
ABCD1	4	3,906890596	4,247927513	1	3,321928095	2
ABCD2	5	4,64385619	5,209453366	5,357552005	5,459431619	4,95419631
ABCD3	6,741466986	6,930737338	6,781359714	7,426264755	7,851749041	8,174925683
ABCD4	5,491853096	5,807354922	5,700439718	6,266786541	5,392317423	4,95419631
ABCE1	8,164906927	8,027905997	8,016808288	8,113742166	8,022367813	8,592457037
ABCF1	8,971543554	8,948367232	9,271463028	8,434628228	9,044394119	7,918863237
ABCF2	5,285402219	5,459431619	5,491853096	5,930737338	5,64385619	6,169925001
ABCF3	4,857980995	4,906890596	5	2,807354922	4,247927513	3,807354922
ABCG1	5,209453366	5	5,209453366	5,614709844	4,95419631	2
ABCG2	3,700439718	3,169925001	1,584962501	4,321928095	3,321928095	0
ABCG4	0	0	0	0	0	0
ABCG5	0	0	0	0	0	0
ABCG8	0	0	0	2,807354922	3,321928095	0
ABHD1	0	0	0	2,321928095	1,584962501	0
ABHD10	6,491853096	6,108524457	5,906890596	5,357552005	6,321928095	5,700439718
ABHD11	3	3	2,807354922	0	0	0
ABHD12	6,807354922	7	6,965784285	2,807354922	3	0
ABHD12B	0	0	0	0	0	0
ABHD13	7,426264755	6,918863237	7,375039431	7,554588852	7,614709844	7,700439718
ABHD14A	4,169925001	3,169925001	3,700439718	2,321928095	1,584962501	0
ABHD14A-ACY1	0	0	0	0	0	0
ABHD14B	6,129283017	6,285402219	6,409390936	6,62935662	6,539158811	6,700439718
ABHD15	6,459431619	6,22881869	6,584962501	6,50779464	6,832890014	5,95419631
ABHD16A	1,584962501	3	3,584962501	0	1,584962501	0
ABHD16B	0	0	0	0	0	0
ABHD2	8,97441459	8,791162889	8,73809226	8,409390936	8,45532722	8,426264755
ABHD3	7,714245518	7,417852515	7,826548487	6,95419631	6,584962501	6,820178962
ABHD4	4,523561956	4,754887502	4	3,807354922	4,64385619	4,64385619
ABHD5	7,577428828	7,312882955	7,189824559	6,189824559	6,409390936	6,569855608
ABHD6	4,906890596	4,584962501	4,584962501	3,807354922	4	3,807354922
ABHD8	3,700439718	3,321928095	2,584962501	1	1,584962501	0
ABI1	8,77807713	8,851749041	8,813781191	8,741466986	8,636624621	8,463524373
ABI2	6,754887502	6,882643049	6,658211483	7,768184325	7,781359714	7,700439718
ABI3	5,672425342	5,554588852	5,523561956	2,807354922	4,459431619	2
ABI3BP	0	0	0	1	2,321928095	3,169925001
ABL1	6,845490051	7,06608919	7,06608919	6,62935662	6,965784285	6,321928095
ABL2	6,930737338	6,894817763	6,714245518	6,321928095	6,50779464	6,409390936
ABLIM1	8,396604781	8,511752654	8,717676423	9,603626345	9,611024797	9,385862401
ABLIM2	1	1,584962501	1	1	1,584962501	0
ABLIM3	0	0	0	0	0	3,807354922
ABO	0	0	0	0	0	2
ABR	8,353146825	8,257387843	8,353146825	6,658211483	6,614709844	6,491853096
ABRA	0	0	0	0	0	0
ABT1	6,62935662	6,857980995	6,714245518	7,357552005	7,17990909	7,491853096
ABTB1	5,285402219	5,044394119	5,321928095	4,857980995	5,459431619	2
ABTB2	0	0	1,584962501	0	1,584962501	0
ACAA1	6,906890596	6,62935662	6,339850003	6,906890596	6,700439718	6,700439718
ACAA2	6,392317423	6,087462841	6,06608919	5,700439718	5,977279923	4,321928095
ACACA	5,129283017	4,087462841	4,459431619	4,857980995	5,857980995	6,247927513

ACACB	4,523561956	4,754887502	4,700439718	5,754887502	5,781359714	4,95419631
ACAD10	4,523561956	5,129283017	5,672425342	5,930737338	5,857980995	5,700439718
ACAD11	0	0	1,584962501	0	2,321928095	2
ACAD8	6,409390936	5,857980995	5,807354922	6,50779464	6,539158811	5,169925001
ACAD9	4,700439718	5,044394119	4,247927513	3,321928095	1,584962501	0
ACADL	1	0	0	2,321928095	0	0
ACADM	7,820178962	7,754887502	7,62935662	7,982993575	8,330916878	8,21916852
ACADS	4,64385619	4,169925001	4,906890596	2,321928095	4,807354922	0
ACADSB	7,033423002	7,483815777	7,17990909	7,409390936	7,285402219	6,930737338
ACADVL	6,965784285	7,303780748	6,988684687	7,022367813	7,087462841	6,820178962
ACAN	0	0	0	0	1,584962501	2
ACAP1	6,044394119	6,169925001	6,087462841	6,700439718	6,584962501	6,247927513
ACAP2	9,189824559	9,098032083	9,116343961	8,54303182	8,276124405	8,129283017
ACAP3	1,584962501	3,321928095	2,807354922	4,523561956	4,247927513	2
ACAT1	5,977279923	5,781359714	5,727920455	5,700439718	4,807354922	5,832890014
ACAT2	6,339850003	6,392317423	6,169925001	5,357552005	5,781359714	5,554588852
ACBD3	8,636624621	8,577428828	8,409390936	8,562242424	8,581200582	8,857980995
ACBD4	3,584962501	2,807354922	1,584962501	3,321928095	3	0
ACBD5	7,876516947	7,707359132	7,741466986	7	7,22881869	7,011227255
ACBD6	6,266786541	5,930737338	6,303780748	6,22881869	6,044394119	6,247927513
ACBD7	0	0	0	0	0	0
ACCS	5,392317423	5,672425342	5,357552005	6,321928095	5,285402219	5,554588852
ACCSL	0	0	0	0	0	0
ACD	3,906890596	4,459431619	4,247927513	4,087462841	3,321928095	3,169925001
ACE	3	3	3	0	1,584962501	0
ACE2	0	0	0	0	0	0
ACER1	0	0	0	0	0	0
ACER2	0	0	0	0	0	0
ACER3	5,95419631	5,832890014	6,189824559	4,857980995	5,285402219	4,321928095
ACHE	0	0	0	0	0	0
ACIN1	8,442943496	8,636624621	8,686500527	8,294620749	8,194756854	8,087462841
ACLY	7,820178962	7,8008999	7,651051691	7,693486957	7,451211112	7,169925001
ACMSD	0	0	0	0	0	0
ACO1	5,392317423	5,832890014	5,807354922	4,700439718	5,554588852	4,95419631
ACO2	7,139551352	7,483815777	7,312882955	7,285402219	7,044394119	7,442943496
ACOT1	0	0	0	0	0	0
ACOT11	3	4,459431619	4,523561956	0	0	0
ACOT12	0	0	0	0	0	2
ACOT13	6,977279923	6,882643049	7,06608919	5,459431619	5,459431619	3,807354922
ACOT2	4	4	4,523561956	4,321928095	3,321928095	3,169925001
ACOT4	3	2,807354922	3,807354922	0	0	4,321928095
ACOT6	0	0	0	0	1,584962501	0
ACOT7	3,584962501	3	2,807354922	0	3,321928095	0
ACOT8	4,64385619	5,087462841	4,247927513	4,857980995	5,459431619	3,807354922
ACOT9	6,64385619	6,584962501	6,266786541	4,321928095	4,807354922	4,64385619
ACOX1	6,832890014	6,918863237	6,754887502	5,523561956	5,727920455	5,700439718
ACOX2	0	0	0	0	0	0
ACOX3	4,906890596	5,357552005	5,247927513	4,321928095	3	3,169925001
ACOXL	0	0	0	2,321928095	3	3,169925001
ACP1	8,194756854	8,14974712	8,189824559	8,689997971	8,714245518	8,51569838
ACP2	6,599912842	6,977279923	6,62935662	0	4,807354922	0
ACP5	7,209453366	7,451211112	7,523561956	2,807354922	4	0
ACP6	5,044394119	5	5,129283017	6,321928095	5,64385619	5,95419631
ACPP	5,523561956	5,426264755	5,247927513	0	0	0
ACR	0	0	0	0	0	0
ACRBP	1,584962501	1,584962501	1	2,807354922	3,321928095	3,807354922
ACRV1	0	0	0	0	0	0
ACSBG1	0	0	0	1	0	0

ACSBG2	0	0	0	0	0	0
ACSF2	2,807354922	3	3	1	2,321928095	0
ACSF3	5,832890014	5	5,392317423	6	6,129283017	6,409390936
ACSL1	7,076815597	7	6,781359714	4,700439718	5,459431619	4,321928095
ACSL3	8,668884984	8,562242424	8,388017285	8,539158811	8,599912842	8,686500527
ACSL4	8,77807713	8,861086906	8,475733431	7,876516947	7,584962501	7,813781191
ACSL5	6,475733431	6,658211483	6,491853096	6,06608919	6,409390936	6,569855608
ACSL6	6,22881869	6,129283017	5,906890596	6,794415866	6,50779464	6,569855608
ACSM1	0	0	1	0	0	0
ACSM2A	0	0	1	0	0	0
ACSM2B	0	1	1,584962501	2,321928095	1,584962501	2
ACSM3	5	4,95419631	5,321928095	5,523561956	5,169925001	4,95419631
ACSM4	0	1	0	3,321928095	2,321928095	3,807354922
ACSM5	0	0	0	2,807354922	1,584962501	2
ACSS1	6,781359714	7,426264755	7,50779464	7,577428828	7,614709844	7,055282436
ACSS2	3,459431619	4,584962501	4,523561956	0	3	2
ACSS3	1	1,584962501	2,584962501	3,807354922	3	5,700439718
ACTA1	0	0	0	0	0	0
ACTA2	2,584962501	3,169925001	3,169925001	5,357552005	5,459431619	4,64385619
ACTB	10,63117706	10,61194694	10,43983088	8,95419631	9,346513733	8,845490051
ACTBL2	0	0	0	0	3	4,321928095
ACTC1	0	0	0	1	0	0
ACTG1	11,64069684	11,62021983	11,31741261	10,2179577	10,37068741	9,768184325
ACTG2	0	0	0	0	0	0
ACTL10	2,321928095	0	1	0	0	0
ACTL6A	6,554588852	6,727920455	6,475733431	6,266786541	5,930737338	5,357552005
ACTL6B	0	0	0	0	0	0
ACTL7A	0	0	0	0	0	0
ACTL7B	0	0	0	0	0	0
ACTL8	0	0	0	0	0	0
ACTL9	0	0	0	0	0	0
ACTN1	8,326429487	8,832890014	8,588714636	8,787902559	8,903881846	8,531381461
ACTN2	1	0	0	0	0	0
ACTN3	0	0	1	0	0	0
ACTN4	8,499845887	8,348728154	8,539158811	8,174925683	8,276124405	7,918863237
ACTR10	7,95419631	8,129283017	8,011227255	8,011227255	8,103287808	7,741466986
ACTR1A	5,832890014	6,06608919	6,22881869	4,523561956	5,169925001	2
ACTR1B	7,209453366	7,238404739	7,257387843	7,531381461	7,864186145	6,569855608
ACTR2	11,28019079	11,15165083	11,13249973	10,58683979	10,6891244	10,64835758
ACTR3	10,5028318	10,47978026	10,34762137	9,668884984	9,48984796	9,614709844
ACTR3B	3,807354922	4,321928095	4,169925001	4,523561956	3,321928095	4,95419631
ACTR3BP2	0	0	0	0	0	0
ACTR3BP5	0	0	0	0	0	0
ACTR3C	0	2,584962501	0	1	0	3,807354922
ACTR5	4,247927513	4,857980995	4,754887502	4,321928095	3,321928095	3,169925001
ACTR6	7,562242424	7,483815777	7,54689446	7,700439718	7,64385619	7,562242424
ACTR8	5,426264755	5,64385619	5,169925001	4,321928095	4,247927513	5,554588852
ACTRT1	0	0	0	0	0	0
ACTRT2	0	0	0	0	0	0
ACVR1	5,727920455	5,247927513	5,700439718	4,087462841	4,64385619	2
ACVR1B	6,832890014	6,882643049	6,523561956	5,832890014	6,584962501	6,930737338
ACVR1C	5,584962501	5,247927513	5,807354922	6,700439718	6,539158811	6,820178962
ACVR2A	5,392317423	5	5,392317423	5,614709844	4,459431619	5,700439718
ACVR2B	4,64385619	4,95419631	5,209453366	6,189824559	5,857980995	5,832890014
ACVRL1	4,392317423	4,392317423	3,169925001	0	0	0
ACY1	0	1	1	1	0	0
ACY3	0	0	0	0	0	0
ACYP1	6,247927513	6,321928095	6,169925001	6	6,285402219	6,169925001

ACYP2	4,906890596	4,523561956	4,584962501	5,614709844	4,807354922	5,700439718
ADA	5,807354922	5,930737338	5,930737338	2,807354922	4	0
ADAD1	0	0	0	0	0	0
ADAD2	0	0	0	0	0	0
ADAL	5,584962501	5,554588852	5,321928095	6,700439718	6,857980995	6,930737338
ADAM10	9,250298418	9,131856961	8,927777962	8,851749041	8,515699838	8,366322214
ADAM11	0	0	0	0	0	0
ADAM12	1	2,807354922	2,807354922	3,807354922	4,807354922	4,95419631
ADAM15	4,754887502	5,672425342	4,95419631	0	3,321928095	3,807354922
ADAM17	8,30833903	8,366322214	8,21916852	8,13442632	8,14974712	8,129283017
ADAM18	0	0	0	0	0	0
ADAM19	5,807354922	5,584962501	5,807354922	6,266786541	6,409390936	5,169925001
ADAM2	0	0	1	0	0	0
ADAM20	0	3	1,584962501	2,807354922	1,584962501	3,169925001
ADAM21	0	0	0	0	0	0
ADAM21P1	0	0	0	0	0	0
ADAM22	3,584962501	3,169925001	3,700439718	2,807354922	3	2
ADAM23	4,247927513	4,700439718	4,64385619	5,700439718	3,321928095	6,247927513
ADAM28	7,918863237	8,022367813	8,290018847	6,930737338	6,189824559	6,321928095
ADAM29	1	0	1	1	0	3,169925001
ADAM30	0	0	0	0	0	0
ADAM32	2,321928095	1	1	2,807354922	3	4,64385619
ADAM33	0	0	0	0	0	0
ADAM3A	0	0	0	0	0	0
ADAM6	0	0	0	0	0	0
ADAM7	1,584962501	0	2	1	0	3,169925001
ADAM8	8,682994584	8,787902559	8,665335917	8,731319031	8,77807713	7,894817763
ADAM9	7,54689446	7,531381461	7,554588852	4,857980995	5,977279923	5,554588852
ADAMDEC1	8,426264755	8,17990909	8,184875343	1	4,247927513	0
ADAMTS1	2,584962501	2,584962501	2	0	0	0
ADAMTS10	1,584962501	2,321928095	3,700439718	4,523561956	3	3,169925001
ADAMTS12	1	0	0	0	1,584962501	3,169925001
ADAMTS13	1	0	0	0	1,584962501	0
ADAMTS14	0	0	0	0	0	0
ADAMTS15	0	0	0	0	0	0
ADAMTS16	0	0	0	0	1,584962501	0
ADAMTS17	0	0	0	1	0	0
ADAMTS18	0	1,584962501	1,584962501	2,807354922	3	4,95419631
ADAMTS19	1,584962501	1	1	1	0	3,169925001
ADAMTS2	0	1	0	0	0	2
ADAMTS20	1	0	0	0	0	0
ADAMTS3	0	0	1	0	0	5,554588852
ADAMTS4	1	0	0	2,321928095	3,321928095	4,64385619
ADAMTS5	2,584962501	2,807354922	3,321928095	5,523561956	5,285402219	6,882643049
ADAMTS6	3,700439718	3,169925001	4,169925001	5	4,247927513	5,554588852
ADAMTS7	0	0	0	0	0	0
ADAMTS8	0	0	0	0	0	0
ADAMTS9	2,584962501	1,584962501	1	4,321928095	5,64385619	5,832890014
ADAMTS9-AS2	0	1	1,584962501	2,807354922	4,64385619	3,807354922
ADAMTSL1	0	0	0	0	0	0
ADAMTSL2	0	0	0	0	0	0
ADAMTSL3	0	1	2	0	1,584962501	3,169925001
ADAMTSL4	2,321928095	2,584962501	0	0	0	0
ADAMTSL5	0	0	0	0	0	0
ADAP1	4,906890596	5,169925001	5,727920455	2,807354922	3,321928095	3,169925001
ADAP2	6,475733431	6,569855608	6,569855608	4,523561956	2,321928095	2
ADAR	9,076815597	9,209453366	9,226412193	9,262094845	9,142107057	9,240791332
ADARB1	5,044394119	5,044394119	4,64385619	5,357552005	4,807354922	3,807354922

ADARB2	1,584962501	1,584962501	1,584962501	3,807354922	3	0
ADARB2-AS1	0	0	0	0	0	0
ADAT1	5,672425342	4,584962501	5,584962501	6,930737338	6,129283017	7,169925001
ADAT2	5,321928095	5,285402219	5,491853096	5,459431619	6,129283017	6,247927513
ADAT3	0	0	0	0	0	0
ADCK1	1,584962501	2,321928095	1,584962501	1	0	0
ADCK2	6	6,339850003	5,700439718	6,845490051	6,614709844	6,321928095
ADCK5	0	2,321928095	1	0	1,584962501	0
ADCY1	2,584962501	2,807354922	2,807354922	3,807354922	3	5,554588852
ADCY10	0	1	0	2,807354922	0	2
ADCY2	0	1	0	4,523561956	4,459431619	4,95419631
ADCY3	4,584962501	4	3,906890596	2,321928095	3,700439718	2
ADCY4	0	0	1	3,807354922	2,321928095	0
ADCY5	0	0	0	0	0	0
ADCY6	0	0	0	1	0	2
ADCY7	9,434628228	9,392317423	9,226412193	8,426264755	8,361943774	8,174925683
ADCY8	0	0	0	1	0	0
ADCY9	4,700439718	4,584962501	4,169925001	2,321928095	1,584962501	0
ADCYAP1	0	1,584962501	0	2,321928095	0	2
ADCYAP1R1	0	0	0	0	0	0
ADD1	8,233619677	8,098032083	8,339850003	8,479780264	8,379378367	8,558420713
ADD2	1,584962501	1	1,584962501	3,321928095	3	2
ADD3	10,35974956	10,15481811	10,13699111	10,39124359	10,19844504	10,15355203
ADGB	1	0	0	1	0	0
ADH1A	0	0	0	0	0	0
ADH1B	0	1	0	2,807354922	0	2
ADH1C	0	0	0	0	0	0
ADH4	0	0	0	0	0	0
ADH5	7,46760555	7,451211112	7,409390936	7,826548487	7,658211483	7,276124405
ADH6	0	0	0	2,321928095	0	0
ADH7	1	1	0	0	0	0
ADHFE1	4,247927513	3,700439718	3,584962501	0	1,584962501	0
ADI1	8,071462363	8,071462363	7,994353437	6,658211483	7,022367813	6,247927513
ADIG	0	0	0	0	0	0
ADIPOQ	0	0	0	0	0	0
ADIPOR1	7,459431619	7,539158811	7,409390936	7,209453366	7,348728154	7,312882955
ADIPOR2	7,523561956	7,64385619	7,442943496	7,129283017	7,523561956	7,055282436
ADK	7,960001932	8,098032083	7,906890596	6,845490051	6,409390936	6,965784285
ADM	6,14974712	5,781359714	6,129283017	3,321928095	3	3,807354922
ADM2	1	2,321928095	0	2,321928095	0	0
ADNP	7,851749041	7,721099189	7,62935662	7,906890596	7,707359132	8,204571144
ADNP2	7,417852515	7,426264755	7,247927513	6,820178962	6,539158811	6,820178962
ADO	7,011227255	7,129283017	6,930737338	7,055282436	6,882643049	6,882643049
ADORA1	0	0	0	0	0	0
ADORA2A	0	0	0	0	0	0
ADORA2B	2,321928095	2,321928095	2,807354922	0	0	0
ADORA3	3,584962501	3,906890596	4,169925001	0	0	0
ADPGK	7,209453366	7,754887502	7,434628228	7,459431619	7,599912842	7,515699838
ADPRH	5,614709844	5,554588852	5,169925001	2,321928095	2,321928095	3,807354922
ADPRHL1	0	0	0	5,129283017	4,459431619	5,95419631
ADPRHL2	5,906890596	6,06608919	6	6,375039431	6,459431619	6,409390936
ADRA1A	0	0	0	0	0	0
ADRA1B	0	0	0	0	0	0
ADRA1D	0	0	0	0	1,584962501	0
ADRA2A	0	0	0	0	0	0
ADRA2B	0	0	0	5,882643049	4,247927513	5,700439718
ADRA2C	0	0	0	0	0	0
ADRB1	0	0	1,584962501	3,807354922	4	5,700439718

ADRB2	5,781359714	6,169925001	6,06608919	5,357552005	5,930737338	5,357552005
ADRB3	0	0	0	0	0	0
ADRM1	6,266786541	6,50779464	6,426264755	6,459431619	6,658211483	6,491853096
ADSL	7,108524457	7,159871337	7,50779464	6,882643049	6,942514505	6,569855608
ADSS	7,857980995	7,965784285	7,845490051	8,011227255	7,672425342	7,64385619
ADSSL1	2,584962501	1,584962501	1,584962501	2,807354922	0	0
ADTRP	5,614709844	5,087462841	5,426264755	6,741466986	7,044394119	6,700439718
AEBP1	2,321928095	1,584962501	1,584962501	2,321928095	2,321928095	0
AEBP2	6,87036472	6,857980995	6,965784285	6,700439718	6,882643049	6,700439718
AEN	5,321928095	5,321928095	4,95419631	6,794415866	6,087462841	6,62935662
AES	9,850186838	10,21674586	10,39339046	10,46964182	10,54012804	10,23002044
AFAP1	3,700439718	4,087462841	4,247927513	4,087462841	4	3,169925001
AFAP1-AS1	0	0	0	0	0	0
AFAP1L1	0	0	0	0	0	0
AFAP1L2	2,321928095	0	1,584962501	3,807354922	0	4,321928095
AFF1	8,257387843	8,174925683	8,174925683	8,060695932	7,982993575	7,741466986
AFF2	3	1	1	0	0	0
AFF3	6,14974712	6	6,409390936	6,794415866	6,768184325	7,129283017
AFF4	8,741466986	8,438791853	8,370687407	8,797661526	8,503825738	8,965784285
AFG3L1P	6,807354922	6,686500527	7,209453366	7,189824559	7,06608919	6,965784285
AFG3L2	6,942514505	7	6,754887502	6,794415866	7,06608919	6,62935662
AFM	0	0	0	0	0	0
AFMID	3,807354922	3,169925001	3,321928095	4,087462841	2,321928095	3,807354922
AFP	0	0	0	0	0	0
AFTPH	8,700439718	8,62935662	8,625708843	8,87958325	8,807354922	8,87036472
AGA	6,741466986	6,727920455	6,426264755	6,794415866	6,539158811	5,95419631
AGAP1	4,523561956	5,321928095	4,584962501	5,614709844	4,807354922	4,64385619
AGAP11	0	0	0	0	0	0
AGAP2	6,375039431	6,285402219	6,459431619	6,768184325	6,965784285	6,62935662
AGAP3	8,033423002	8,539158811	8,658211483	7,129283017	6,741466986	5,357552005
AGAP4	2,584962501	1,584962501	0	0	0	0
AGAP5	1	1	0	0	0	0
AGAP6	3,906890596	3,700439718	3,321928095	5	4,247927513	3,807354922
AGAP9	1	0	1,584962501	1	0	0
AGBL1	1,584962501	2,321928095	1,584962501	2,321928095	4,64385619	5,554588852
AGBL2	3	3,807354922	2,584962501	4,523561956	4,459431619	3,169925001
AGBL3	3,906890596	4,087462841	3,169925001	5,523561956	4,95419631	6,321928095
AGBL4	2,584962501	1,584962501	1,584962501	4,857980995	3,321928095	4,64385619
AGBL5	3,700439718	5,044394119	4,95419631	4,857980995	4,95419631	4,95419631
AGER	4,459431619	5,247927513	5,247927513	6,584962501	5,554588852	5,832890014
AGFG1	8,344295908	8,257387843	8,487840034	8,906890596	8,64385619	9,172427509
AGFG2	4,321928095	4,700439718	4,584962501	3,807354922	4,807354922	0
AGGF1	6,794415866	7,209453366	6,95419631	7,864186145	7,50779464	7,592457037
AGK	5,554588852	5,977279923	5,727920455	5,357552005	6,087462841	3,807354922
AGL	6,672425342	6,554588852	6,754887502	7,247927513	6,832890014	6,491853096
AGMAT	2,807354922	2,321928095	2,584962501	0	3	0
AGMO	2,321928095	3,321928095	2,584962501	5,129283017	4,95419631	5,832890014
AGPAT1	6,087462841	5,832890014	6,426264755	6,129283017	6,584962501	6,409390936
AGPAT2	4,392317423	4,906890596	5,321928095	0	0	0
AGPAT3	8	8,049848549	7,942514505	7,266786541	7,06608919	7,741466986
AGPAT4	5,523561956	5,087462841	5,523561956	5,700439718	5,857980995	4,321928095
AGPAT5	7,686500527	7,607330314	7,357552005	7,375039431	7,672425342	7,409390936
AGPS	7,357552005	7,426264755	7,303780748	6,700439718	7,209453366	6,62935662
AGR2	0	0	0	0	0	0
AGR3	0	0	0	0	0	0
AGRN	2,584962501	2,321928095	2,807354922	0	1,584962501	0
AGRP	0	0	0	0	0	0
AGT	0	0	0	0	0	0

AGTPBP1	8,076815597	7,761551232	7,87036472	8,312882955	8,299208018	8,108524457
AGTR1	0	0	0	0	0	0
AGTR2	0	0	0	0	0	0
AGTRAP	5,554588852	5,169925001	5,129283017	2,321928095	3,321928095	0
AGXT	0	0	0	0	0	0
AGXT2	0	0	1	0	0	2
AHCTF1	6,977279923	6,62935662	6,768184325	7,169925001	7,087462841	7,209453366
AHCY	6,303780748	6,339850003	6,392317423	5,129283017	4,807354922	4,321928095
AHCYL1	9,271463028	9,269126679	9,162391329	9,011227255	8,87958325	8,686500527
AHCYL2	4,169925001	4,321928095	4,459431619	3,321928095	5,169925001	4,321928095
AHDC1	5,129283017	5,357552005	6,108524457	5,930737338	5,64385619	6,06608919
AHI1	6,700439718	6,658211483	6,87036472	8,071462363	7,658211483	8,108524457
AHNAK	10,02236781	10,06877828	10,11504365	9,233619677	9,25502857	8,54303182
AHNAK2	0	0	0	2,807354922	3	4,321928095
AHR	7,87036472	7,721099189	7,845490051	5,523561956	5,727920455	5,357552005
AHRR	7,257387843	7,451211112	7,426264755	5,754887502	5,554588852	6,62935662
AHSA1	6,906890596	7,14974712	7,022367813	7,426264755	7,523561956	7,46760555
AHSG	0	0	0	0	0	0
AHSP	0	0	0	2,807354922	1,584962501	3,807354922
AICDA	2,321928095	2,584962501	0	4,700439718	4,459431619	4,64385619
AIDA	4,247927513	4,392317423	4,247927513	5,129283017	4	4,64385619
AIF1	9,821773982	9,796039609	9,584962501	5,930737338	6,087462841	6,62935662
AIF1L	0	0	0	0	0	0
AIFM1	6,285402219	6,22881869	6,108524457	6,22881869	6,321928095	6,321928095
AIFM2	4,857980995	4,857980995	4,64385619	4,523561956	4,459431619	4,95419631
AIFM3	1	2,321928095	0	0	0	0
AIG1	4,523561956	4,459431619	4	5,247927513	4,247927513	2
AIM2	6,714245518	6,50779464	6,189824559	5,523561956	5,857980995	5,95419631
AIMP1	7,62935662	7,531381461	7,276124405	7,794415866	7,768184325	8,129283017
AIMP2	6,768184325	6,658211483	6,727920455	5,129283017	5,169925001	2
AIP	6,189824559	6,727920455	6,672425342	6,700439718	7,087462841	6,491853096
AIPL1	0	1	0	0	0	2
AIRE	0	0	0	0	0	0
AJAP1	1	1	1	0	0	2
AJUBA	2,321928095	1	0	0	2,321928095	0
AK1	3,700439718	4,584962501	4,584962501	6,554588852	6,087462841	6,62935662
AK2	7,087462841	7,044394119	6,807354922	6,658211483	6,768184325	6,930737338
AK3	7,417852515	7,651051691	7,554588852	7,515699838	7,965784285	7,46760555
AK4	5,426264755	5,727920455	5,523561956	0	6,247927513	3,169925001
AK5	4	3	4,584962501	6	5,087462841	6,06608919
AK7	0	0	0	0	0	0
AK8	0	0	0	1	0	0
AKAP1	5,977279923	5,95419631	5,857980995	6,06608919	5,285402219	4,95419631
AKAP10	7,499845887	7,339850003	7,8008999	7,491853096	7,266786541	7,64385619
AKAP11	8,640244936	8,303780748	8,159871337	8,266786541	8,194756854	8,503825738
AKAP12	6,409390936	6,129283017	6,266786541	6,584962501	6,700439718	6,569855608
AKAP13	10,38694025	10,28424575	10,4767462	10,65999589	10,54882191	10,53040634
AKAP14	0	0	0	0	0	0
AKAP17A	9,068778278	9,113742166	9,01402047	9,556506055	9,471675214	9,548821908
AKAP2	0	0	0	0	0	0
AKAP3	0	0	0	1	3,321928095	5,700439718
AKAP4	0	0	0	0	0	0
AKAP5	5,700439718	5,044394119	5,727920455	5,754887502	5,930737338	6,06608919
AKAP6	1,584962501	3	1	4,321928095	4	2
AKAP7	6,022367813	5,832890014	6,129283017	6,554588852	5,977279923	6,700439718
AKAP8	7,451211112	7,108524457	7,303780748	7,531381461	7,321928095	7,592457037
AKAP8L	5,321928095	5	5,321928095	6,321928095	6,087462841	6,569855608
AKAP9	10,18487534	9,810571635	10,10328781	9,906890596	9,668884984	9,25502857

AKIP1	5,426264755	5,64385619	5,491853096	4,321928095	5,087462841	0
AKIRIN1	7,276124405	7,434628228	7,321928095	7,64385619	7,924812504	7,562242424
AKIRIN2	6,930737338	6,832890014	6,754887502	7	6,965784285	6,62935662
AKNA	9,226412193	9,381542951	9,652844973	9,199672345	9,73978061	9,063395081
AKNAD1	0	0	0	0	0	0
AKR1A1	8,169925001	8,174925683	8,098032083	6,768184325	7,06608919	6,491853096
AKR1B1	6,321928095	6,14974712	6,189824559	7,247927513	7,321928095	6,965784285
AKR1B10	0	0	0	0	0	0
AKR1B15	0	0	0	0	0	0
AKR1C1	1	0	0	0	0	0
AKR1C2	0	0	0	0	0	0
AKR1C3	2,584962501	2,584962501	3,321928095	3,321928095	2,321928095	2
AKR1C4	0	0	0	0	0	0
AKR1D1	0	0	0	0	0	0
AKR1E2	0	0	0	0	0	0
AKR7A2	5,672425342	5,392317423	5,321928095	5,523561956	5,459431619	3,807354922
AKR7A2P1	0	0	0	0	0	0
AKR7A3	0	0	0	0	0	0
AKR7L	0	1,584962501	1	1	3	3,169925001
AKT1	7,108524457	6,894817763	6,906890596	6,845490051	6,189824559	6,169925001
AKT1S1	4,64385619	5,321928095	5,727920455	4,857980995	4,459431619	3,807354922
AKT2	8,271463028	8,64385619	8,285402219	8,985841937	9,079484784	8,87036472
AKT3	7,787902559	7,693486957	7,651051691	8,276124405	8,071462363	8,330916878
AKTIP	5,129283017	5,357552005	4,584962501	5,754887502	5,554588852	5,700439718
ALAD	6,044394119	6,169925001	5,672425342	5,357552005	4,64385619	2
ALAS1	7,189824559	6,942514505	7,321928095	4,087462841	5,459431619	5,357552005
ALAS2	2,807354922	1	1,584962501	2,321928095	3	5,357552005
ALB	0	0	0	4,700439718	4	5,554588852
ALCAM	8,30833903	8,164906927	8,276124405	6	5,781359714	5,554588852
ALDH16A1	5,930737338	5,857980995	5,754887502	5,459431619	5,285402219	4,321928095
ALDH18A1	4,906890596	4,906890596	5	5,523561956	5,977279923	4,64385619
ALDH1A1	8,285402219	7,781359714	8,144658243	3,807354922	0	5,357552005
ALDH1A2	0	0	0	1	0	0
ALDH1A3	1	0	1	2,807354922	1,584962501	4,321928095
ALDH1B1	2,321928095	2,584962501	3,321928095	0	2,321928095	0
ALDH1L1	0	0	0	0	0	0
ALDH1L2	2,807354922	2,584962501	2,807354922	2,807354922	2,321928095	0
ALDH2	8,689997971	8,768184325	8,636624621	6,189824559	5,977279923	6,247927513
ALDH3A1	0	0	0	0	0	0
ALDH3A2	7,266786541	7,159871337	7,14974712	6,459431619	6,044394119	5,700439718
ALDH3B1	6,087462841	5,857980995	5,882643049	2,321928095	2,321928095	0
ALDH3B2	0	0	0	0	0	0
ALDH4A1	2,321928095	2,807354922	3,700439718	0	0	0
ALDH5A1	5,700439718	6,14974712	5,781359714	6,62935662	6,741466986	6,491853096
ALDH6A1	6,686500527	6,321928095	6,392317423	6,321928095	6,700439718	5,554588852
ALDH7A1	2,584962501	2,321928095	2	4,087462841	4,247927513	5,700439718
ALDH8A1	1,584962501	0	1	3,807354922	4	5,169925001
ALDH9A1	7,409390936	7,087462841	7	6,129283017	6,247927513	5,832890014
ALDOA	2,584962501	3	1	0	1,584962501	0
ALDOB	0	0	0	0	1,584962501	0
ALDOC	4,64385619	5,321928095	5,392317423	2,807354922	5,169925001	2
ALG1	4,906890596	4,95419631	4,857980995	3,807354922	3	0
ALG10	3,807354922	3,169925001	3,584962501	3,807354922	3	0
ALG10B	5,727920455	5,459431619	5,584962501	6,189824559	5,087462841	5,357552005
ALG11	6,339850003	6,62935662	6,523561956	6,882643049	6,700439718	6,882643049
ALG12	5,491853096	4,95419631	5	2,807354922	3,321928095	3,169925001
ALG13	6,768184325	6,584962501	6,491853096	6,845490051	6,375039431	6,820178962
ALG14	3,906890596	4,857980995	3,906890596	5	4,247927513	5,95419631

ALG1L	0	0	0	0	0	0
ALG1L2	0	0	0	0	0	0
ALG2	7,912889336	7,74819285	7,658211483	8,14974712	8,118941073	8,049848549
ALG3	4,700439718	5,321928095	5	3,807354922	4,64385619	3,169925001
ALG5	7,409390936	7,434628228	7,321928095	6,794415866	7,139551352	6,882643049
ALG6	5,882643049	5,129283017	5,129283017	5,614709844	4,95419631	5,357552005
ALG8	6,044394119	6,129283017	5,727920455	6,459431619	5,857980995	6,569855608
ALG9	3,906890596	4,087462841	4,584962501	4,321928095	4,64385619	4,64385619
ALK	0	0	0	0	0	0
ALKBH1	4,321928095	4,087462841	4	4,523561956	4,64385619	0
ALKBH2	4,321928095	4,392317423	4,087462841	2,807354922	5,727920455	4,95419631
ALKBH3	4,247927513	4,64385619	4,169925001	5,247927513	4,95419631	2
ALKBH4	3,459431619	2,584962501	3	0	2,321928095	2
ALKBH5	8,640244936	8,661778098	8,581200582	8,592457037	9,025139562	8,700439718
ALKBH6	3,700439718	4,64385619	4,247927513	4,087462841	3,321928095	2
ALKBH7	5,247927513	5,247927513	5,614709844	5,614709844	5,781359714	5,169925001
ALKBH8	6,62935662	6,285402219	6,247927513	6,930737338	7,312882955	6,754887502
ALLC	0	1	0	2,321928095	0	0
ALMS1	6,108524457	6,303780748	6,375039431	6	5,64385619	5,169925001
ALOX12	0	0	0	0	0	0
ALOX12B	0	0	0	0	0	0
ALOX12P2	1	1	0	3,807354922	3,321928095	4,321928095
ALOX15	0	0	0	0	0	3,169925001
ALOX15B	2,321928095	1	1	0	0	0
ALOX5	5,906890596	5,426264755	5,357552005	4,857980995	4,95419631	3,807354922
ALOX5AP	7,73470962	7,584962501	7,554588852	7,426264755	7,523561956	7,247927513
ALOXE3	0	0	0	0	0	0
ALPI	0	0	0	0	0	0
ALPK1	6,584962501	6,62935662	6,741466986	6,22881869	6,129283017	7,129283017
ALPK2	2,584962501	2,807354922	1,584962501	2,321928095	2,321928095	4,64385619
ALPK3	0	0	1	5,247927513	4	5,700439718
ALPL	0	0	0	0	0	0
ALPP	0	0	0	0	0	0
ALS2	5,614709844	5,781359714	5,614709844	4,857980995	5,169925001	3,807354922
ALS2CL	1	0	3	2,321928095	3	3,807354922
ALS2CR12	3,459431619	4,169925001	3,584962501	4,087462841	4,459431619	4,95419631
ALX1	0	0	0	0	0	0
ALX3	0	0	0	0	0	0
ALX4	1	1,584962501	1,584962501	1	3,700439718	3,169925001
ALYREF	6,087462841	6,108524457	6,247927513	5,614709844	6,129283017	5,95419631
AMACR	1,584962501	2,584962501	0	0	0	0
AMBN	0	0	0	0	0	0
AMBP	0	0	0	1	0	2
AMBRA1	5,129283017	5	5,129283017	6	5,977279923	6,700439718
AMD1	9,364134655	9,226412193	9,011227255	8,980139578	8,842350343	9,063395081
AMDHD1	0	1	0	1	1,584962501	0
AMDHD2	5,614709844	6,339850003	6,599912842	5,459431619	6,129283017	4,64385619
AMELX	0	0	0	0	0	0
AMELY	0	0	0	0	0	0
AMFR	7,700439718	7,303780748	7,459431619	7,781359714	7,768184325	7,761551232
AMH	0	0	0	4,087462841	1,584962501	0
AMHR2	0	0	0	0	0	0
AMIGO1	4,169925001	4,169925001	3,700439718	4,087462841	4,247927513	5,169925001
AMIGO2	6,539158811	6,303780748	6,554588852	6,906890596	6,539158811	6,491853096
AMIGO3	0	0	0	0	1,584962501	0
AMMECR1	6,321928095	6,357552005	6,523561956	6,62935662	6,658211483	6,321928095
AMMECR1L	6,303780748	6	6,06608919	7,247927513	6,741466986	6,491853096
AMN	1,584962501	3	2,584962501	5,459431619	5,285402219	6,06608919

AMN1	6,392317423	6,459431619	6,475733431	6,906890596	7,139551352	6,930737338
AMOT	3	3,169925001	2,584962501	3,807354922	0	3,169925001
AMOTL1	0	0	1	0	0	0
AMOTL2	0	0	0	0	0	0
AMPD1	0	0	0	0	0	2
AMPD2	5,584962501	5,614709844	5,882643049	5,459431619	5,857980995	3,169925001
AMPD3	5,930737338	6,129283017	6,409390936	5,614709844	5,781359714	4,321928095
AMPH	0	1	0	0	1,584962501	3,807354922
AMT	0	0	1	1	2,321928095	2
AMTN	0	0	1	3,321928095	3	3,807354922
AMY1A	0	0	0	0	0	0
AMY1B	0	0	0	0	0	0
AMY1C	0	0	0	0	0	0
AMY2A	0	0	0	0	0	0
AMY2B	4,700439718	4,64385619	5,321928095	6,409390936	5,169925001	6,169925001
AMZ1	2,321928095	1,584962501	2	0	0	4,64385619
AMZ2	7,108524457	7,199672345	7	7,930737338	7,62935662	7,87036472
AMZ2P1	4,906890596	4,459431619	5,044394119	5,754887502	5,459431619	6,321928095
ANAPC1	3,700439718	4	4	4,857980995	5,459431619	4,95419631
ANAPC10	5,584962501	5,781359714	5,807354922	6,129283017	5,930737338	5,357552005
ANAPC11	6,87036472	6,832890014	6,965784285	5,247927513	5,930737338	3,807354922
ANAPC13	7,129283017	7,339850003	7,199672345	7,169925001	7,266786541	6,930737338
ANAPC16	8,14974712	8,370687407	8,413627929	8,413627929	8,566054038	8,144658243
ANAPC2	1	0	1	0	0	0
ANAPC4	7,011227255	7,011227255	6,942514505	6,768184325	6,614709844	6,965784285
ANAPC5	8,434628228	8,603626345	8,707359132	8,861086906	8,95419631	8,714245518
ANAPC7	5,95419631	5,977279923	6,321928095	6,06608919	5,554588852	5,700439718
ANG	1,584962501	2,584962501	1	0	0	0
ANGEL1	5	4,906890596	3,807354922	3,321928095	4	4,321928095
ANGEL2	7,348728154	7,303780748	7,375039431	7,894817763	7,539158811	7,741466986
ANGPT1	3	2,807354922	3	3,321928095	1,584962501	3,169925001
ANGPT2	3,459431619	0	3,584962501	5,129283017	4	4,95419631
ANGPT4	0	0	0	0	0	0
ANGPTL1	1	0	0	0	0	0
ANGPTL2	0	0	0	2,321928095	0	0
ANGPTL3	1	0	1	1	0	0
ANGPTL4	0	0	0	0	0	0
ANGPTL5	0	0	0	0	0	0
ANGPTL6	3,321928095	3,169925001	3,700439718	1	0	0
ANGPTL7	0	0	0	0	0	0
ANK1	4,392317423	4	4,392317423	6,459431619	4,459431619	6,491853096
ANK2	1,584962501	2,584962501	1	1	3,700439718	5,169925001
ANK3	6,714245518	6,727920455	7,276124405	8,519636253	7,994353437	8,714245518
ANKAR	4,64385619	4,087462841	4,700439718	5,357552005	5,285402219	5,832890014
ANKDD1A	3,700439718	2,807354922	3,807354922	4,700439718	3,321928095	4,95419631
ANKFN1	0	0	0	0	0	0
ANKFY1	8,038918989	8,038918989	7,977279923	8,011227255	7,781359714	7,994353437
ANKH	6,965784285	7,098032083	7,06608919	7,918863237	7,768184325	7,51569838
ANKHD1	4,392317423	5,285402219	5,169925001	7,129283017	6,409390936	7,247927513
ANKHD1-EIF4EBP3	3,807354922	3,321928095	3,807354922	1	3,321928095	0
ANKIB1	7,781359714	7,714245518	7,8008999	7,864186145	7,584962501	7,813781191
ANKK1	0	0	0	0	0	0
ANKLE1	1	0	0	2,321928095	1,584962501	0
ANKLE2	7,06608919	7,199672345	7,22881869	7,577428828	7,599912842	7,832890014
ANKMY1	3,807354922	3,906890596	3,321928095	2,807354922	3,700439718	2
ANKMY2	6,375039431	6,06608919	6,266786541	5,614709844	6,50779464	0
ANKRA2	7,276124405	7,442943496	7,392317423	8,471675214	8,243173983	8,622051819
ANKRD1	1	0	0	0	0	0

ANKRD10	8,038918989	8,038918989	8	8,442943496	8,092757141	8,271463028
ANKRD11	10,31288296	10,19475685	10,49085088	10,76652891	10,65999589	10,80896417
ANKRD12	11,84549005	11,48884435	11,76404222	11,11958962	11,07079181	11,03479896
ANKRD13A	8,144658243	7,942514505	8,169925001	8,033423002	8,257387843	7,994353437
ANKRD13B	0	0	0	0	0	0
ANKRD13C	6,554588852	6,442943496	5,930737338	7,098032083	6,658211483	7,011227255
ANKRD13D	5,977279923	6,06608919	5,977279923	6,409390936	5,857980995	6,491853096
ANKRD16	1	2,321928095	1,584962501	1	0	0
ANKRD17	8,658211483	8,409390936	8,717676423	8,968666793	8,73809226	9,144658243
ANKRD18A	2,807354922	3,169925001	3,700439718	4,523561956	1,584962501	3,807354922
ANKRD18B	0	0	0	1	0	3,807354922
ANKRD18DP	0	0	0	0	0	0
ANKRD19P	0	0	0	0	0	0
ANKRD2	0	0	0	0	0	0
ANKRD20A1	0	0	0	0	0	0
ANKRD20A11P	2,584962501	1,584962501	2	3,321928095	3	2
ANKRD20A2	0	0	0	0	0	0
ANKRD20A3	0	0	0	0	0	0
ANKRD20A4	0	0	1	0	0	0
ANKRD20A5P	3,321928095	2,807354922	3,321928095	4,321928095	1,584962501	5,357552005
ANKRD20A8P	1	0	0	2,321928095	2,321928095	4,321928095
ANKRD20A9P	0	0	0	0	0	2
ANKRD22	6,64385619	6,930737338	6,906890596	1	4	3,169925001
ANKRD23	1,584962501	0	0	3,807354922	0	2
ANKRD24	0	0	0	1	0	0
ANKRD26	7,787902559	7,693486957	7,894817763	8,033423002	7,599912842	7,942514505
ANKRD26P1	0	0	0	2,807354922	1,584962501	4,95419631
ANKRD26P3	0	0	0	0	0	0
ANKRD27	7,46760555	7,17990909	7,033423002	7,169925001	7,17990909	6,247927513
ANKRD28	7,321928095	7,14974712	7,475733431	7,942514505	7,721099189	7,977279923
ANKRD29	0	0	1	0	0	3,169925001
ANKRD30A	0	0	0	0	0	0
ANKRD30B	1	1	1	3,807354922	3	4,321928095
ANKRD30BL	0	0	0	0	0	0
ANKRD30BP2	0	0	0	0	0	0
ANKRD31	2,807354922	1	2	5,247927513	5,169925001	5,700439718
ANKRD33	1	0	1	4,087462841	3,700439718	4,321928095
ANKRD33B	4	3,700439718	4,247927513	4,321928095	4,807354922	5,700439718
ANKRD34A	1	0	1	4,321928095	3,321928095	3,807354922
ANKRD34B	1	3,584962501	3,169925001	4,857980995	5,169925001	5,554588852
ANKRD34C	0	0	0	2,321928095	1,584962501	3,169925001
ANKRD35	0	0	1	0	0	0
ANKRD36	6,87036472	6,658211483	7,033423002	7,599912842	6,965784285	7,965784285
ANKRD36B	5,64385619	5,727920455	5,857980995	6,22881869	5,554588852	6,882643049
ANKRD36BP1	0	1	0	1	3,700439718	2
ANKRD36BP2	3,459431619	2,807354922	3,584962501	4,857980995	4,459431619	5,700439718
ANKRD37	5,64385619	5,727920455	5,727920455	5,700439718	6,700439718	3,807354922
ANKRD39	4,523561956	4,392317423	4,169925001	2,807354922	5,169925001	3,169925001
ANKRD40	6,129283017	6,06608919	5,977279923	6,50779464	6,375039431	6,62935662
ANKRD42	5,285402219	5,129283017	5,129283017	3,807354922	4,807354922	4,95419631
ANKRD44	9,896332404	9,859534786	10,04302728	9,93516505	9,658211483	9,865733271
ANKRD45	0	0	0	0	0	3,169925001
ANKRD46	5,169925001	5,321928095	4,857980995	5,754887502	6,044394119	6,169925001
ANKRD49	8,558420713	8,370687407	8,531381461	8,897845456	8,682994584	8,87036472
ANKRD50	4,584962501	4,584962501	4,247927513	1	2,321928095	3,169925001
ANKRD52	5,807354922	5,781359714	5,977279923	5,523561956	5,977279923	4,64385619
ANKRD53	0	0	0	0	0	0
ANKRD54	5	5,357552005	5,247927513	6,06608919	6,50779464	6,491853096

ANKRD55	3,459431619	2,807354922	2,584962501	2,321928095	3	0
ANKRD6	4,169925001	3,906890596	3,700439718	2,321928095	4,64385619	3,169925001
ANKRD62P1-PARP4P3	0	0	0	0	0	0
ANKRD63	0	0	0	0	0	0
ANKRD65	0	0	0	0	0	0
ANKRD7	1	0	0	0	0	0
ANKRD9	3	3,169925001	1,584962501	0	0	0
ANKS1A	5,129283017	4,754887502	4,700439718	4,857980995	3	4,95419631
ANKS1B	2,584962501	1	2	3,321928095	3	2
ANKS3	3,807354922	4,459431619	3,700439718	4,523561956	4	4,95419631
ANKS4B	0	0	0	0	1,584962501	0
ANKS6	1	3	4,087462841	2,807354922	2,321928095	0
ANKUB1	1	1	2	1	0	3,169925001
ANKZF1	7,442943496	7,636624621	7,982993575	7,62935662	7,982993575	7,348728154
ANLN	1,584962501	0	0	1	0	0
ANO1	0	0	0	0	0	0
ANO10	4,700439718	4,700439718	4,64385619	0	2,321928095	2
ANO2	0	0	0	0	1,584962501	0
ANO3	0	2,584962501	0	1	1,584962501	3,807354922
ANO4	1	0	0	0	0	0
ANO5	2,321928095	1,584962501	1,584962501	1	2,321928095	2
ANO6	8,033423002	7,942514505	7,851749041	6,658211483	6,375039431	6,321928095
ANO7	1	0	0	0	0	0
ANO8	4,64385619	5	5,129283017	4,087462841	1,584962501	2
ANO9	3,584962501	4,321928095	4,087462841	3,807354922	2,321928095	0
ANP32A	8,754887502	8,632995197	8,826548487	8,861086906	8,836050355	8,744833837
ANP32AP1	1,584962501	0	0	0	0	0
ANP32B	10,27844946	10,34429591	10,20823436	10,17242751	10,36194377	9,948367232
ANP32C	0	1	0	0	2,321928095	0
ANP32D	0	0	0	0	0	0
ANP32E	9,243173983	9,126704473	9,236014192	9,447083226	9,50779464	9,451211112
ANPEP	7,276124405	7,21916852	7,357552005	1	2,321928095	3,169925001
ANTXR1	0	0	0	0	3	0
ANTXR2	7,592457037	7,73470962	7,721099189	7,442943496	7,434628228	7,011227255
ANTXRL	0	0	0	0	0	0
ANXA1	8,960001932	8,960001932	8,820178962	8,422064766	8,434628228	8,491853096
ANXA10	1	2,321928095	1,584962501	3,807354922	4,64385619	5,169925001
ANXA11	8,124121312	8,45532722	8,434628228	7,960001932	8,209453366	7,787902559
ANXA13	0	1,584962501	0	0	1,584962501	4,64385619
ANXA2	9,243173983	9,37286506	9,016808288	6,459431619	6,459431619	5,95419631
ANXA2P1	0	0	0	0	0	0
ANXA2P2	2,807354922	3,321928095	2,584962501	0	0	0
ANXA2P3	0	0	0	0	0	0
ANXA3	2,584962501	1,584962501	2	2,807354922	3,321928095	0
ANXA4	8,049848549	7,714245518	7,707359132	5,754887502	5,64385619	6,321928095
ANXA5	9,13442632	9,226412193	9,105908509	6,189824559	7,159871337	5,95419631
ANXA6	6,930737338	6,930737338	6,714245518	6,845490051	7,17990909	5,169925001
ANXA7	8,060695932	7,820178962	7,948367232	8,033423002	7,900866808	7,994353437
ANXA8	0	0	0	0	0	0
ANXA8L1	0	0	0	0	0	0
ANXA9	0	0	0	0	0	0
AOAH	7,276124405	7,076815597	7,285402219	6,06608919	5,554588852	5,169925001
AOC2	0	1	1	4,321928095	3	3,169925001
AOC3	0	0	0	3,321928095	3,321928095	5,832890014
AOX1	0	0	0	0	1,584962501	0
AOX2P	0	0	0	0	0	0
AP1AR	8,17990909	8,214319121	8,06608919	7,459431619	7,554588852	7,515699838
AP1B1	7,820178962	8,214319121	7,826548487	7,189824559	7,321928095	7,169925001

AP1B1P1	0	0	0	0	0	0
AP1G1	7,888743249	7,475733431	7,965784285	8,276124405	7,994353437	8,21916852
AP1G2	5	4,906890596	4,95419631	5,754887502	3,700439718	3,169925001
AP1M1	6,50779464	6,62935662	6,523561956	8,573647187	7,832890014	8,475733431
AP1M2	0	0	0	0	0	2
AP1S1	2,807354922	3,906890596	4,392317423	1	1,584962501	0
AP1S2	9,6794801	9,727920455	9,702172685	7,491853096	7,832890014	7,098032083
AP1S3	3,700439718	3,700439718	2,807354922	5,459431619	5,285402219	4,321928095
AP2A1	4,857980995	4,64385619	5,044394119	4,523561956	5,285402219	4,95419631
AP2A2	5,64385619	5,727920455	6,087462841	6,06608919	4,95419631	5,169925001
AP2B1	7,392317423	7,257387843	7,50779464	7,693486957	7,321928095	7,409390936
AP2M1	7,238404739	7,400879436	7,592457037	7,169925001	7,348728154	7,409390936
AP2S1	8,016808288	8,199672345	8,312882955	6,50779464	6,459431619	5,169925001
AP3B1	7,721099189	7,348728154	7,523561956	6,700439718	6,768184325	6,930737338
AP3B2	0	0	0	0	0	0
AP3D1	8,400879436	8,46760555	8,562242424	8,607330314	8,413627929	8,54303182
AP3M1	6,189824559	6,584962501	6,06608919	4,700439718	5,285402219	5,357552005
AP3M2	7,50779464	7,515699838	7,400879436	7,266786541	7,672425342	7,87036472
AP3S1	8,144658243	8,016808288	7,832890014	7,321928095	7,044394119	6,62935662
AP3S2	5,930737338	5,672425342	5,247927513	5,832890014	6,285402219	5,169925001
AP4B1	5,392317423	5,321928095	5,392317423	4,700439718	3,700439718	0
AP4E1	6,894817763	6,741466986	6,906890596	6,06608919	6,189824559	6,491853096
AP4M1	2,584962501	2,584962501	1,584962501	0	3	3,807354922
AP4S1	5,357552005	4,857980995	4,700439718	5,614709844	5,64385619	5,554588852
AP5B1	5,491853096	5,727920455	5,700439718	2,807354922	4,247927513	3,807354922
APAF1	7,930737338	7,876516947	7,787902559	6,845490051	6,768184325	6,754887502
APBA1	2,321928095	0	2,807354922	0	0	0
APBA2	5,700439718	5,727920455	6,189824559	7,554588852	7,312882955	7,672425342
APBA3	4,700439718	5,087462841	5,523561956	2,807354922	4,807354922	4,321928095
APBB1	4,459431619	3,906890596	4,087462841	4,700439718	5,087462841	4,321928095
APBB1IP	8,596189756	8,409390936	8,199672345	9,030667136	8,707359132	8,584962501
APBB2	1	1,584962501	1,584962501	0	2,321928095	0
APBB3	5,426264755	5,247927513	5,044394119	5,882643049	5,285402219	5,554588852
APC	8,124121312	8,174925683	8,312882955	7,491853096	7,383704292	7,169925001
APC2	0	0	0	5,832890014	4,95419631	6,700439718
APCDD1	0	0	0	0	0	0
APCDD1L	0	0	0	0	0	0
APCS	0	0	0	0	0	0
APEH	6,06608919	5,882643049	6,523561956	5,882643049	5,727920455	3,807354922
APEX1	7,851749041	7,900866808	7,607330314	8,434628228	8,21916852	8,434628228
APEX2	4,392317423	4,754887502	4,459431619	0	4,247927513	3,807354922
APH1A	9,226412193	9,457380879	9,513727596	9,366322214	9,605479518	9,400879436
APH1B	6,022367813	6,285402219	5,754887502	5	5,64385619	5,832890014
API5	7,577428828	7,451211112	7,434628228	8,044394119	8,022367813	8,108524457
APIP	5,832890014	6,044394119	6,108524457	6,189824559	6,087462841	5,95419631
APLF	5,584962501	5,584962501	5,523561956	6,375039431	5,64385619	6,491853096
APLN	0	0	0	0	0	0
APLNR	0	0	0	0	0	0
APLP1	0	0	0	0	0	0
APLP2	10,02928723	10,04302728	9,847057346	8,243173983	8,584962501	7,942514505
APOA1	0	0	0	0	0	0
APOA2	0	0	0	0	1,584962501	0
APOA4	0	0	0	0	0	0
APOA5	0	0	0	0	0	0
APOB	0	0	0	0	0	0
APOBEC1	0	0	0	0	0	0
APOBEC2	0	0	0	0	0	0
APOBEC3A	5,930737338	6,285402219	6,169925001	0	3	4,321928095

APOBEC3B	0	0	0	0	0	0
APOBEC3C	6,882643049	7,108524457	6,988684687	6,700439718	7,321928095	6,409390936
APOBEC3D	0	0	0	0	0	0
APOBEC3F	4,169925001	4,459431619	4,247927513	4,857980995	4,807354922	3,807354922
APOBEC3G	7,636624621	7,515699838	7,912889336	7,942514505	7,948367232	7,700439718
APOBEC3H	3,807354922	3,700439718	2	2,321928095	4,459431619	2
APOBEC4	0	0	0	1	0	0
APOBR	5,584962501	5,882643049	5,95419631	4,523561956	4	2
APOC1	4,459431619	4,392317423	4,247927513	0	0	0
APOC1P1	0	0	0	0	0	0
APOC2	0	0	0	0	0	0
APOC3	0	0	0	0	0	0
APOC4	0	0	0	0	0	0
APOC4-APOC2	0	0	0	0	0	0
APOD	0	0	0	0	0	0
APOE	1	3	3,584962501	0	0	0
APOF	0	0	0	0	3	2
APOH	0	0	0	0	0	0
APOL1	7,357552005	7,483815777	7,409390936	5,700439718	5,554588852	6,247927513
APOL2	7,523561956	7,6794801	7,54689446	7,794415866	8,055282436	7,965784285
APOL3	8,144658243	8,092757141	8,326429487	7,64385619	7,807354922	7,622051819
APOL4	6,129283017	6,044394119	5,807354922	1	0	3,807354922
APOL5	0	0	0	0	0	0
APOL6	10,33091688	10,37286506	10,42311591	9,658211483	9,567956075	9,836050355
APOLD1	3,584962501	3,906890596	3,321928095	6,977279923	6,247927513	6,754887502
APOM	1,584962501	1	0	0	1,584962501	0
APOO	3,807354922	3,906890596	3,321928095	3,321928095	0	2
APOOL	6,426264755	6,442943496	5,882643049	4,857980995	5,459431619	6,247927513
APOPT1	5,169925001	5,523561956	5,727920455	6,129283017	5,727920455	6,06608919
APP	7,392317423	7,741466986	7,54689446	7,076815597	6,918863237	6,930737338
APPBP2	7,918863237	8,17990909	8,159871337	8,607330314	8,581200582	8,379378367
APPL1	9,35974956	9,257387843	9,400879436	8,942514505	9,283088353	8,826548487
APPL2	6,50779464	5,727920455	5,727920455	6,375039431	6,459431619	6,409390936
APRT	6,599912842	6,768184325	6,392317423	7,022367813	7	6,409390936
APTXX	5,930737338	6,189824559	5,491853096	6,658211483	6,700439718	6,569855608
AQP1	0	0	0	2,807354922	0	4,321928095
AQP10	0	0	0	0	0	0
AQP11	0	0	1,584962501	0	0	0
AQP12A	0	0	0	0	0	0
AQP12B	0	0	0	0	0	0
AQP2	0	0	0	0	0	0
AQP3	7,894817763	8,139551352	7,839203788	8,64385619	8,54689446	8,299208018
AQP4	0	0	0	0	0	0
AQP5	0	0	0	0	0	0
AQP6	0	0	0	0	0	0
AQP7	0	0	0	0	0	0
AQP7P1	0	0	0	0	0	0
AQP7P3	0	0	0	0	0	0
AQP8	0	0	0	0	0	0
AQP9	4	4,321928095	3,584962501	1	2,321928095	4,64385619
AQR	8,174925683	7,960001932	8,209453366	8,357552005	8,361943774	8,515699838
AR	0	1,584962501	1	0	1,584962501	0
ARAF	5,357552005	5,247927513	5,426264755	4,321928095	5,392317423	0
ARAP1	7,651051691	7,475733431	7,607330314	6,584962501	6,658211483	6,882643049
ARAP2	8,741466986	8,703903573	8,876516947	9,509775004	9,396604781	9,315149562
ARAP3	5,209453366	5,523561956	5,614709844	5,459431619	5,554588852	4,64385619
ARC	0	0	0	0	0	0
ARCN1	8,233619677	8,139551352	8,209453366	8,348728154	8,491853096	8,257387843

AREG	3	3	3,584962501	4,700439718	4,807354922	4,321928095
ARF1	10,20823436	10,24555271	10,08081753	9,949826711	10,033423	9,942514505
ARF3	8,312882955	8,396604781	8,370687407	7,700439718	7,781359714	7,409390936
ARF4	8,640244936	8,527477006	8,098032083	8,060695932	8,276124405	8,087462841
ARF5	0	1	1	0	0	0
ARF6	9,548821908	9,396604781	9,172427509	8,97441459	9,299208018	8,77807713
ARFGAP1	4,857980995	5,087462841	5,523561956	5,754887502	5,64385619	5,832890014
ARFGAP2	5,247927513	5,285402219	5,129283017	5,523561956	4,95419631	4,321928095
ARFGAP3	8,87036472	8,751544059	8,73809226	7,672425342	8,174925683	7,622051819
ARFGEF1	8,21916852	8,108524457	8,144658243	8,471675214	8,361943774	8,463524373
ARFGEF2	8,204571144	8,038918989	8,092757141	8,071462363	7,820178962	8,434628228
ARFIP1	7,375039431	7,312882955	7,247927513	6,189824559	6,409390936	5,554588852
ARFIP2	4,584962501	4,459431619	4,64385619	4,523561956	3,700439718	3,807354922
ARFRP1	5,169925001	5,044394119	5,392317423	5,930737338	4,95419631	5,95419631
ARG1	2,321928095	1,584962501	0	0	1,584962501	0
ARG2	2,321928095	1	0	2,807354922	0	0
ARGFX	0	0	0	0	0	0
ARGFXP2	0	0	0	0	1,584962501	0
ARGLU1	10,33539035	10,19105921	10,30378075	10,49385545	9,965784285	10,41045135
ARHGAP1	6,491853096	6,714245518	6,392317423	6,62935662	6,459431619	5,832890014
ARHGAP10	7,62935662	7,686500527	7,672425342	5,700439718	5,727920455	5,169925001
ARHGAP11A	4	3,906890596	4,169925001	4,087462841	3,321928095	3,807354922
ARHGAP11B	0	0	0	0	0	0
ARHGAP12	7,209453366	6,918863237	6,942514505	7,247927513	7,139551352	7,409390936
ARHGAP15	7,087462841	7,21916852	7,199672345	7,906890596	7,888743249	8,159871337
ARHGAP17	7,599912842	7,451211112	7,400879436	6,906890596	7,139551352	7,011227255
ARHGAP18	8,566054038	8,491853096	8,396604781	4,700439718	5,459431619	5,357552005
ARHGAP19	6,491853096	6,539158811	6,266786541	5,523561956	6,50779464	6,169925001
ARHGAP19-SLIT1	0	0	0	0	0	0
ARHGAP20	1,584962501	1	0	1	0	0
ARHGAP21	6,686500527	6,918863237	6,700439718	6,459431619	6,459431619	5,700439718
ARHGAP22	4,459431619	4,584962501	4,584962501	2,321928095	0	0
ARHGAP23	0	0	0	0	0	0
ARHGAP24	5	5,321928095	5,930737338	6,658211483	6,247927513	7,276124405
ARHGAP25	7,686500527	7,54689446	8,06608919	8,087462841	8,243173983	8,144658243
ARHGAP26	8,233619677	8,14974712	8,276124405	8,339850003	7,768184325	7,918863237
ARHGAP27	6,658211483	6,392317423	6,491853096	6,50779464	6,087462841	5,95419631
ARHGAP28	1,584962501	1	0	0	1,584962501	0
ARHGAP29	1,584962501	2,321928095	0	1	0	3,169925001
ARHGAP30	9,216745858	9,252665432	9,485829309	9,076815597	9,271463028	9,079484784
ARHGAP31	5,807354922	5,781359714	6,169925001	0	5,087462841	0
ARHGAP32	3,584962501	3,321928095	3,906890596	2,321928095	3,321928095	5,554588852
ARHGAP33	1	0	0	0	1,584962501	0
ARHGAP35	7,06608919	6,977279923	7,22881869	7,554588852	7,693486957	7,562242424
ARHGAP36	0	0	0	0	0	0
ARHGAP39	0	0	0	0	0	0
ARHGAP4	6,087462841	5,169925001	6,129283017	5,459431619	5,554588852	4,95419631
ARHGAP40	0	0	0	1	0	0
ARHGAP42	1	0	1	0	1,584962501	2
ARHGAP44	0	0	0	0	0	3,807354922
ARHGAP5	7,971543554	7,741466986	7,832890014	8,184875343	8,30833903	8,366322214
ARHGAP5-AS1	0	0	1,584962501	3,807354922	4,247927513	2
ARHGAP6	2,321928095	3,169925001	0	1	4	4,64385619
ARHGAP8	0	0	0	0	0	2
ARHGAP9	7,942514505	8,011227255	8,011227255	7,794415866	7,851749041	7,169925001
ARHGDIA	7,108524457	7,14974712	7,321928095	6,658211483	6,857980995	6,321928095
ARHGDIB	9,893301531	10,06069593	9,802516365	9,674192268	9,654636029	9,461479447
ARHGDIG	0	0	0	0	0	0

ARRHGEF1	6,942514505	7,098032083	7,276124405	8,82336724	8,299208018	9,049848549
ARRHGEF10	1,584962501	0	1,584962501	3,321928095	4,64385619	4,95419631
ARRHGEF10L	7,339850003	7,982993575	7,845490051	0	3,321928095	3,169925001
ARRHGEF11	6,62935662	6,918863237	6,965784285	4,087462841	4,64385619	3,169925001
ARRHGEF12	5,321928095	5,087462841	5,554588852	5,700439718	4,64385619	6,62935662
ARRHGEF15	0	0	0	1	0	0
ARRHGEF16	0	0	0	0	0	0
ARRHGEF17	2,584962501	3	1,584962501	0	0	0
ARRHGEF18	0	0	1	0	0	0
ARRHGEF19	4,523561956	4,523561956	4,459431619	4,087462841	5,087462841	4,321928095
ARRHGEF2	6,768184325	6,475733431	6,189824559	6,554588852	6,375039431	6,169925001
ARRHGEF25	1,584962501	1	1	0	0	0
ARRHGEF26	0	0	0	0	0	0
ARRHGEF26-AS1	1,584962501	3	1,584962501	5,459431619	5,727920455	6,321928095
ARRHGEF3	7,95419631	7,839203788	8,139551352	8,383704292	8,618385502	8,392317423
ARRHGEF33	1	0	0	0	0	0
ARRHGEF35	0	0	0	0	0	0
ARRHGEF37	0	1	0	3,321928095	4,95419631	5,357552005
ARRHGEF38	1,584962501	0	0	0	0	0
ARRHGEF4	0	0	0	0	0	0
ARRHGEF40	5,426264755	5,357552005	5,672425342	4,087462841	3	4,95419631
ARRHGEF5	1	0	1	0	0	0
ARRHGEF6	8,233619677	8,238404739	7,826548487	7,672425342	7,721099189	7,562242424
ARRHGEF7	7,139551352	7,044394119	7,189824559	7,906890596	7,994353437	7,515699838
ARRHGEF9	4,459431619	4,459431619	5,247927513	6,62935662	6,50779464	6,409390936
ARID1A	8,413627929	8,451211112	8,6794801	8,764871591	8,62935662	8,603626345
ARID1B	9,6794801	9,601770788	9,853309555	10,00562455	9,911391988	10,10328781
ARID2	7,491853096	7,442943496	7,693486957	7,741466986	7,614709844	7,741466986
ARID3A	8,366322214	8,442943496	8,665335917	6,930737338	6,857980995	7,129283017
ARID3B	6,714245518	7,011227255	7,22881869	6,741466986	6,768184325	6,754887502
ARID3C	0	0	0	0	0	0
ARID4A	9,751544059	9,541096615	9,751544059	9,967226259	9,918863237	9,997179481
ARID4B	10,76652891	10,54689446	10,6891244	11,07079181	10,93442804	11,04371086
ARID5A	7,451211112	7,169925001	7,366322214	7,894817763	7,851749041	8,299208018
ARID5B	8,550746785	8,348728154	8,584962501	9,016808288	8,977279923	8,807354922
ARIH1	8,098032083	8,027905997	8,199672345	9,238404739	8,924812504	9,52160044
ARIH2	7,942514505	7,906890596	7,813781191	8,614709844	8,503825738	8,857980995
ARL1	7,965784285	7,906890596	7,714245518	7,303780748	7,400879436	7,539158811
ARL10	4,95419631	5,357552005	5,523561956	5,754887502	5,64385619	5,700439718
ARL11	5,169925001	5,321928095	5,044394119	4,087462841	4,247927513	4,64385619
ARL13A	0	0	0	0	0	0
ARL13B	6,475733431	6,087462841	6,044394119	6,882643049	5,977279923	5,832890014
ARL14	0	0	0	0	0	2
ARL15	5,781359714	5,554588852	4,754887502	4,857980995	4,807354922	3,807354922
ARL16	4	2,584962501	4,169925001	2,807354922	4	0
ARL17A	1	0	0	0	2,321928095	0
ARL17B	2,807354922	2,584962501	2	2,321928095	3,700439718	3,807354922
ARL2	5,392317423	5,523561956	5,321928095	4,700439718	5,459431619	3,169925001
ARL2BP	7,754887502	7,994353437	7,700439718	7,813781191	8,194756854	7,491853096
ARL3	6,087462841	6,129283017	6,108524457	6,266786541	6,129283017	5,832890014
ARL4A	5,392317423	5,357552005	5,357552005	3,807354922	3,321928095	0
ARL4C	11,10459875	11,03479896	10,89254282	10,77478706	10,99576715	10,40087944
ARL4D	0	3,169925001	3,169925001	2,807354922	0	0
ARL5A	7,169925001	7,076815597	7,139551352	7,209453366	6,965784285	7,348728154
ARL5B	7,087462841	6,658211483	6,64385619	6,977279923	7,044394119	6,965784285
ARL5C	0	0	0	0	0	0
ARL6	5,247927513	4,459431619	4,700439718	6,266786541	6,584962501	6,569855608
ARL6IP1	8,939579214	9,041659152	8,839203788	8,888743249	9,076815597	8,939579214

ARL6IP4	3,906890596	3,906890596	4,584962501	5,129283017	5,285402219	5,832890014
ARL6IP5	10,40087944	10,32080055	10,24911345	10,11634396	10,15481811	10,28424575
ARL6IP6	6,62935662	6,459431619	6,64385619	6,459431619	6,658211483	6,62935662
ARL8A	9,126704473	9,159871337	8,810571635	8,022367813	8,426264755	7,672425342
ARL8B	8,405141463	8,422064766	8,383704292	7,864186145	7,994353437	8,016808288
ARL9	0	1,584962501	0	4,087462841	3,321928095	4,64385619
ARMC1	8,016808288	7,918863237	8,027905997	8,233619677	8,033423002	8,159871337
ARMC10	5,614709844	5,882643049	6,247927513	5,247927513	4,95419631	3,807354922
ARMC12	0	0	0	3,321928095	0	3,169925001
ARMC2	3,459431619	4,087462841	3,169925001	4,523561956	5,087462841	4,321928095
ARMC3	0	0	0	0	0	0
ARMC4	0	0	0	1	0	0
ARMC5	4,392317423	3,584962501	4,584962501	3,321928095	4	3,807354922
ARMC6	3	3,321928095	4	1	1,584962501	0
ARMC7	3,584962501	3,906890596	3,700439718	0	2,321928095	0
ARMC8	7,554588852	7,515699838	7,366322214	7,693486957	7,768184325	7,787902559
ARMC9	2,321928095	3,700439718	4,087462841	3,807354922	2,321928095	4,321928095
ARMCX1	3,584962501	4,087462841	3,321928095	2,807354922	3,321928095	2
ARMCX2	4,169925001	3,584962501	3	3,807354922	1,584962501	0
ARMCX3	7,918863237	7,960001932	7,62935662	8,174925683	7,982993575	8,312882955
ARMCX4	4,169925001	1,584962501	4,459431619	3,321928095	4,64385619	3,169925001
ARMCX5	5,906890596	5,807354922	5,700439718	5,129283017	5,392317423	4,64385619
ARMCX6	1	2,321928095	1,584962501	1	0	2
ARMS2	0	0	0	0	0	0
ARNT	6,882643049	6,727920455	6,614709844	6,321928095	6,700439718	6,409390936
ARNT2	1	0	3	0	2,321928095	2
ARNTL	7,651051691	7,592457037	7,523561956	8,266786541	7,994353437	8,271463028
ARNTL2	6,022367813	5,044394119	5,584962501	0	0	0
ARPC1A	6,539158811	6,754887502	6,247927513	5,523561956	6,189824559	6,247927513
ARPC1B	8,921840937	8,968666793	9,28077077	7,851749041	7,832890014	7,787902559
ARPC2	11,16176174	11,2227949	11,3885555	10,64835758	10,80251637	10,59991284
ARPC3	9,556506055	9,721099189	9,786269628	9,055282436	9,337621902	9,154818109
ARPC4	7,912889336	8,400879436	8,129283017	7,515699838	8,022367813	7,375039431
ARPC4-TTLL3	0	0	0	0	0	0
ARPC5	10,39124359	10,43983088	10,26091953	9,350939182	9,499845887	9,21916852
ARPC5L	7,392317423	7,417852515	7,577428828	8,6794801	8,607330314	8,915879379
ARPP19	8,22881869	8,247927513	8,276124405	8,573647187	8,618385502	8,558420713
ARPP21	0	0	1	0	0	3,169925001
ARR3	0	0	0	0	0	0
ARRB1	6,266786541	5,95419631	5,882643049	4,321928095	3,321928095	0
ARRB2	7,636624621	7,754887502	7,483815777	7,266786541	7,285402219	7,409390936
ARRDC1	4,523561956	4,754887502	5	2,321928095	3,321928095	0
ARRDC2	6,794415866	7	7	7,727920455	7,74819285	7,721099189
ARRDC3	8,335390355	8,366322214	8,17990909	9,301496195	9,162391329	9,469641817
ARRDC4	6,475733431	6,321928095	6,475733431	2,807354922	3	0
ARRDC5	2,584962501	3,807354922	3	4,700439718	4	5,169925001
ARSA	5,392317423	5,64385619	5,426264755	5,247927513	5,087462841	4,321928095
ARSB	7,076815597	6,768184325	6,882643049	2,807354922	3	0
ARSD	5,727920455	5,727920455	5,491853096	0	4,64385619	2
ARSE	0	0	0	0	0	0
ARSF	0	0	0	0	0	0
ARSG	3,321928095	3,700439718	2,584962501	3,321928095	2,321928095	0
ARSH	0	0	0	0	0	0
ARSI	0	0	0	0	0	0
ARSJ	0	1	0	1	0	0
ARSK	4,754887502	4,392317423	4,087462841	4,087462841	4,459431619	4,95419631
ART1	0	0	0	0	0	0
ART3	0	2,321928095	0	2,321928095	1,584962501	0

ART4	0	0	0	2,807354922	1,584962501	3,807354922
ART5	0	0	0	0	0	0
ARTN	0	0	0	0	1,584962501	0
ARV1	5,882643049	6,14974712	5,807354922	5,459431619	5,977279923	5,95419631
ARVCF	1,584962501	2,321928095	1,584962501	0	0	0
ARX	0	0	0	0	0	4,321928095
AS3MT	0	0	0	0	0	0
ASAH1	9,805743872	9,759888183	9,632995197	7,426264755	7,924812504	7,276124405
ASAH2	0	0	1,584962501	0	0	0
ASAH2B	2,807354922	3,321928095	2,807354922	0	3,700439718	0
ASAP1	9,409390936	9,303780748	9,388017285	8,321928095	8,535275377	8,238404739
ASAP2	3,807354922	1,584962501	2,584962501	3,321928095	1,584962501	3,169925001
ASAP3	0	0	1	0	0	0
ASB1	6	6,108524457	6,108524457	6,794415866	6,285402219	6,965784285
ASB10	0	0	0	0	0	0
ASB11	0	0	1,584962501	2,321928095	2,321928095	4,321928095
ASB12	0	0	0	0	0	0
ASB13	1,584962501	2,807354922	1,584962501	0	1,584962501	0
ASB14	0	0	0	1	0	0
ASB15	1	0	1,584962501	4,523561956	3,700439718	4,95419631
ASB16	0	0	0	0	0	0
ASB17	0	0	0	0	0	0
ASB18	0	0	0	0	1,584962501	0
ASB2	1,584962501	2,807354922	2,584962501	4,321928095	1,584962501	3,169925001
ASB4	0	0	1	0	0	0
ASB5	0	0	0	3,321928095	1,584962501	4,95419631
ASB6	4,906890596	5,321928095	5,392317423	5,129283017	5,459431619	4,64385619
ASB7	6,459431619	6,584962501	6,266786541	7,098032083	6,965784285	6,820178962
ASB8	6,22881869	5,672425342	5,554588852	6,375039431	6,539158811	6,06608919
ASB9	0	0	0	0	0	0
ASB9P1	0	0	0	0	0	0
ASCC1	5,614709844	5,857980995	5,614709844	5,614709844	6,285402219	5,832890014
ASCC2	5,554588852	5,781359714	6,087462841	5,357552005	5,930737338	5,357552005
ASCC3	7,622051819	7,707359132	7,707359132	7,700439718	7,781359714	7,787902559
ASCL1	0	0	0	0	0	0
ASCL2	5,807354922	5,882643049	5,857980995	3,321928095	3,321928095	0
ASCL3	0	0	0	0	0	0
ASCL4	0	0	0	0	0	0
ASF1A	6,339850003	6,599912842	6,392317423	7,693486957	7,285402219	7,942514505
ASF1B	3,906890596	3,807354922	3,700439718	0	2,321928095	0
ASGR1	7,055282436	7,199672345	6,857980995	4,857980995	3,700439718	5,357552005
ASGR2	5,977279923	5,727920455	5,169925001	1	0	0
ASH1L	9,044394119	8,891783703	9,192292814	9,573647187	9,038918989	9,52160044
ASH2L	6,303780748	5,781359714	5,584962501	5,523561956	5,857980995	5,554588852
ASIP	0	0	0	0	0	0
ASL	2,321928095	2,807354922	3	0	1,584962501	0
ASMT	0	0	0	0	0	0
ASMTL	5	4,857980995	4,584962501	3,807354922	4	0
ASMTL-AS1	0	0	0	1	0	0
ASNA1	4,95419631	4,64385619	4,754887502	1	3,700439718	4,95419631
ASNS	2,584962501	2,321928095	2,584962501	4,087462841	4,247927513	4,321928095
ASNSD1	7,491853096	7,129283017	7,434628228	7,515699838	7,434628228	7,64385619
ASPA	0	0	0	0	0	0
ASPDH	0	0	0	0	0	0
ASPG	0	0	0	0	0	0
ASPH	7,209453366	7,392317423	7,247927513	6,584962501	6,700439718	7,562242424
ASPHD1	0	0	0	0	0	2
ASPHD2	5,95419631	6,169925001	6,06608919	6,06608919	6,832890014	6,62935662

ASPM	4,247927513	4,169925001	4,392317423	2,807354922	3	5,169925001
ASPN	0	0	0	0	0	2
ASPRV1	2,321928095	0	1,584962501	3,321928095	4	4,64385619
ASPSCR1	2,807354922	2,584962501	2,807354922	0	0	0
ASRGL1	6,321928095	6,303780748	5,554588852	5	3	3,169925001
ASS1	0	0	0	0	0	0
ASTE1	5,247927513	5,169925001	4,906890596	5,129283017	5,977279923	5,832890014
ASTL	0	0	0	0	0	0
ASTN1	0	0	0	0	0	0
ASTN2	0	0	0	0	0	0
ASXL1	8,049848549	8,118941073	8,383704292	8,731319031	8,566054038	8,939579214
ASXL2	8,438791853	8,434628228	8,45532722	8,592457037	8,665335917	8,894817763
ASXL3	1	1,584962501	2,584962501	4,700439718	3,321928095	3,169925001
ASZ1	1,584962501	0	0	0	0	3,807354922
ATAD1	7,348728154	7,209453366	7,17990909	7,876516947	7,491853096	7,562242424
ATAD2	6,700439718	6,584962501	6,820178962	6,50779464	7,247927513	6,700439718
ATAD2B	8,087462841	8,139551352	8,339850003	8,515699838	8,14974712	8,271463028
ATAD3A	3,584962501	3	3,321928095	0	2,321928095	0
ATAD3B	3,584962501	3	3,584962501	2,321928095	3,700439718	2
ATAD3C	0	2,584962501	0	1	2,321928095	4,64385619
ATAD5	5,906890596	6,044394119	5,882643049	5,754887502	5,392317423	6,409390936
ATAT1	3,321928095	3	3,700439718	1	3	0
ATCAY	0	0	0	0	0	0
ATE1	7,129283017	6,686500527	7,14974712	7,076815597	6,965784285	7,515699838
ATF1	8,038918989	7,845490051	7,936637939	7,781359714	7,768184325	7,375039431
ATF2	7,033423002	7,266786541	7,209453366	7,339850003	7,022367813	7,312882955
ATF3	6,584962501	6,339850003	6,22881869	3,807354922	4,247927513	4,321928095
ATF4	9,426264755	9,62935662	9,782998209	9,906890596	10,07948478	9,936637939
ATF5	7,285402219	7,491853096	7,918863237	4,857980995	5,857980995	4,95419631
ATF6	7,73470962	7,87036472	7,794415866	7,515699838	6,965784285	7,592457037
ATF6B	4,700439718	5,727920455	5,357552005	5,700439718	4,807354922	5,169925001
ATF7	5,321928095	5,672425342	5,781359714	4,321928095	5,392317423	3,807354922
ATF7IP	8,499845887	8,422064766	8,62935662	8,087462841	8,113742166	8,087462841
ATF7IP2	6,303780748	6,169925001	6,303780748	6,50779464	6,06608919	6,06608919
ATG10	4,459431619	3,807354922	3	3,807354922	5,169925001	5,700439718
ATG12	8,426264755	8,344295908	8,487840034	8,668884984	8,607330314	8,73470962
ATG13	6,129283017	6,375039431	5,700439718	6,50779464	6,321928095	5,95419631
ATG14	6,658211483	6,392317423	6,614709844	7,409390936	6,942514505	7,622051819
ATG16L1	5,426264755	5,523561956	5,672425342	7,169925001	6,584962501	7,129283017
ATG16L2	7,794415866	8,247927513	8,290018847	7,209453366	7,266786541	6,491853096
ATG2A	5,930737338	6,14974712	6,303780748	6	6,044394119	4,95419631
ATG2B	7,189824559	7,321928095	6,930737338	7,971543554	7,888743249	8,108524457
ATG3	8,696967526	8,409390936	8,535275377	7,599912842	7,876516947	7,64385619
ATG4A	5,392317423	4,857980995	4,584962501	4,523561956	4,95419631	3,807354922
ATG4B	6,62935662	7,011227255	7,06608919	7,826548487	7,721099189	7,409390936
ATG4C	7,087462841	6,988684687	6,781359714	7,098032083	6,918863237	7,011227255
ATG4D	4,247927513	4,169925001	4,64385619	5,459431619	4,64385619	5,169925001
ATG5	7,076815597	6,686500527	6,988684687	6,62935662	7,087462841	6,06608919
ATG7	6,247927513	6,044394119	6,700439718	5,614709844	5,169925001	5,832890014
ATG9A	0	0	0	0	0	0
ATG9B	2,807354922	2,807354922	2,807354922	2,807354922	1,584962501	0
ATIC	6,554588852	6,303780748	6,426264755	7,266786541	6,741466986	7,098032083
ATL1	1,584962501	1,584962501	2,584962501	0	3	0
ATL2	5,807354922	5,614709844	6,108524457	6,22881869	6,658211483	5,832890014
ATL3	7,599912842	7,400879436	7,539158811	7,339850003	7,044394119	6,247927513
ATM	10,28540222	10,15101654	10,37286506	10,57175264	10,31288296	10,65284497
ATMIN	7,62935662	7,515699838	7,383704292	7,515699838	7,599912842	7,409390936
ATN1	3,321928095	4,087462841	4,459431619	2,807354922	3,321928095	0

ATOH1	0	0	0	0	0	0
ATOH7	0	0	0	0	0	0
ATOH8	0	0	0	1	0	0
ATOX1	7,62935662	7,820178962	7,845490051	5,129283017	5,285402219	3,807354922
ATP10A	5,64385619	5,169925001	5,247927513	6,459431619	5,857980995	5,700439718
ATP10B	2,584962501	3,169925001	2	4,523561956	4,807354922	4,64385619
ATP10D	7,392317423	7,383704292	7,383704292	6,22881869	6,700439718	6,569855608
ATP11A	7,50779464	7,400879436	7,459431619	6	5,930737338	5,832890014
ATP11B	8,194756854	8,060695932	8,353146825	8,13442632	8,392317423	7,562242424
ATP11C	7,54689446	7,209453366	7,651051691	7,864186145	7,491853096	7,761551232
ATP12A	0	0	0	0	0	0
ATP13A1	3,807354922	3,906890596	4,459431619	5,247927513	4,247927513	3,169925001
ATP13A2	1,584962501	3,169925001	3,700439718	3,807354922	3,321928095	0
ATP13A3	8,459431619	8,409390936	8,129283017	7,658211483	8,118941073	7,562242424
ATP13A4	2,584962501	0	0	0	1,584962501	3,169925001
ATP13A5	0	0	0	0	0	0
ATP1A1	8,326429487	8,451211112	8,636624621	8,668884984	8,607330314	8,686500527
ATP1A2	0	0	0	0	0	0
ATP1A3	0	0	0	0	0	0
ATP1A4	0	0	0	0	0	0
ATP1B1	8,113742166	7,658211483	7,754887502	5,357552005	5,285402219	5,554588852
ATP1B2	0	0	0	0	0	0
ATP1B3	9,321928095	9,469641817	9,445014846	7,876516947	8,159871337	7,562242424
ATP1B4	0	0	0	3,321928095	0	0
ATP2A1	0	0	0	0	0	0
ATP2A2	8,060695932	8,159871337	7,965784285	6,882643049	7	6,700439718
ATP2A3	5,209453366	5,807354922	6,129283017	5,832890014	5,459431619	5,95419631
ATP2B1	9,501837185	9,381542951	9,461479447	9,385862401	9,346513733	8,73470962
ATP2B2	0	0	0	0	0	3,169925001
ATP2B3	0	0	0	2,807354922	2,321928095	4,321928095
ATP2B4	9,071462363	9,169925001	9,142107057	9,016808288	9,214319121	8,558420713
ATP2C1	6,977279923	7,531381461	7,400879436	6,584962501	6,459431619	6,754887502
ATP2C2	0	0	1	1	0	2
ATP4A	0	0	0	0	0	0
ATP4B	0	0	0	0	0	0
ATP5S	6,426264755	6,727920455	6,285402219	5,930737338	5,977279923	5,95419631
ATP6AP1	8,625708843	8,977279923	9,005624549	8,044394119	7,672425342	7,169925001
ATP6AP1L	3,321928095	3,700439718	3,700439718	6,06608919	5,285402219	6,62935662
ATP6AP2	10,25620869	10,25148241	10,01402047	9,076815597	8,957102042	9,049848549
ATP6V0A1	6,906890596	6,845490051	7,199672345	4,857980995	3,700439718	4,321928095
ATP6V0A2	6,714245518	6,584962501	6,988684687	7,076815597	7	7,098032083
ATP6V0A4	0	0	0	0	0	0
ATP6V0B	8,581200582	8,64385619	8,495855027	7,339850003	7,781359714	7,375039431
ATP6V0C	0	0	0	0	0	0
ATP6V0CP3	0	0	0	0	0	0
ATP6V0D1	6,459431619	6,266786541	6,50779464	5,129283017	5,727920455	6,247927513
ATP6V0D2	0	1,584962501	1	2,321928095	1,584962501	2
ATP6V0E1	8,577428828	8,820178962	8,758223215	8,214319121	8,209453366	7,813781191
ATP6V0E2	5,807354922	6,599912842	6,459431619	7,285402219	7,321928095	6,700439718
ATP6V1A	8,647458426	8,562242424	8,569855608	6,700439718	6,741466986	7,055282436
ATP6V1B1	0	0	0	0	1,584962501	0
ATP6V1B2	9,769837844	9,968666793	9,781359714	7,515699838	8,011227255	7,348728154
ATP6V1C1	7,312882955	7,266786541	7,434628228	6,266786541	5,977279923	6,700439718
ATP6V1C2	0	0	0	0	1,584962501	2
ATP6V1D	7,247927513	7,044394119	7,108524457	5,614709844	6,129283017	5,832890014
ATP6V1E1	7,741466986	7,754887502	7,700439718	7,727920455	7,851749041	7,942514505
ATP6V1E2	5,129283017	5	5,584962501	6,906890596	6,044394119	6,700439718
ATP6V1F	7,839203788	8,055282436	7,994353437	6,554588852	6,965784285	6,965784285

ATP6V1G1	10,26091953	10,22037833	10,15481811	10,10590851	10,07948478	10,15355203
ATP6V1G2	3,459431619	3,584962501	3	6,50779464	6,129283017	7,011227255
ATP6V1G2-DDX39B	0	0	0	0	0	0
ATP6V1G3	0	0	0	1	0	2
ATP6V1H	7,266786541	7,375039431	7,312882955	7,169925001	7,417852515	7,787902559
ATP7A	7,022367813	6,882643049	6,781359714	6,977279923	6,807354922	6,930737338
ATP7B	1	0	0	0	0	0
ATP8A1	8,30833903	8,459431619	8,46760555	9,283088353	9,214319121	9,126704473
ATP8A2	2,807354922	3,169925001	3	4,523561956	4,95419631	4,321928095
ATP8B1	2,321928095	1,584962501	0	0	1,584962501	0
ATP8B2	6,977279923	6,768184325	6,918863237	7,357552005	7,417852515	7,098032083
ATP8B3	1	1,584962501	0	0	0	0
ATP8B4	5,357552005	5,357552005	4,95419631	2,807354922	4,459431619	5,357552005
ATP8B5P	0	1	1	1	0	0
ATP9A	4,700439718	4	3,807354922	5	5,727920455	3,807354922
ATP9B	5,781359714	5,95419631	6,169925001	6	5,64385619	6,491853096
ATPAF1	6,129283017	6	6	6,62935662	6,658211483	5,700439718
ATPAF2	4,523561956	4,392317423	4,64385619	3,321928095	4	2
ATR	7,21916852	7,17990909	7,366322214	7,754887502	7,614709844	8,174925683
ATRIP	4,392317423	3,584962501	3,169925001	3,807354922	3,700439718	4,321928095
ATRN	5,614709844	5,64385619	5,523561956	4,087462841	5,087462841	4,321928095
ATRN1	0	1	3	2,321928095	1,584962501	0
ATRX	10,87958325	10,65999589	10,84235034	10,78135971	10,67683861	10,75321675
ATXN1	8,939579214	8,62935662	8,933690655	8,751544059	8,73809226	8,894817763
ATXN10	7,599912842	7,577428828	7,475733431	8,049848549	7,832890014	7,851749041
ATXN1L	6,686500527	6,392317423	6,459431619	6,584962501	6,882643049	6,882643049
ATXN2	7,948367232	7,820178962	7,8008999	8,257387843	8,103287808	8,475733431
ATXN2L	7,707359132	7,900866808	8,581200582	8,011227255	8,103287808	8,366322214
ATXN3	7,515699838	7,266786541	7,483815777	6,882643049	7,159871337	6,62935662
ATXN3L	0	0	0	0	0	0
ATXN7	4,584962501	4,523561956	5,554588852	4,169925001	4,392317423	4,087462841
ATXN7L1	6,303780748	6,321928095	6,285402219	6,554588852	6,247927513	6,882643049
ATXN7L2	0	1,584962501	2	0	0	2
ATXN7L3	6,303780748	6,189824559	6,22881869	6,459431619	6,741466986	6,169925001
ATXN7L3B	7,577428828	7,62935662	7,523561956	8,451211112	8,276124405	8,603626345
ATXN8OS	0	0	0	0	0	0
AUH	6,022367813	5,832890014	5,781359714	5,930737338	5,857980995	4,64385619
AUP1	7,491853096	7,930737338	7,851749041	7,599912842	7,614709844	7,741466986
AURKA	4,64385619	3,906890596	4	2,321928095	3,321928095	3,807354922
AURKAIP1	6,741466986	6,741466986	6,714245518	6,22881869	6,882643049	6,06608919
AURKB	3	2,807354922	2,807354922	2,321928095	0	0
AURKC	0	0	0	1	0	2
AUTS2	7,936637939	8	8,243173983	8,299208018	8,426264755	8,087462841
AVEN	4	4,523561956	3,807354922	4,857980995	4,95419631	4,64385619
AVIL	3,321928095	2,584962501	4	7,303780748	6,658211483	7,64385619
AVL9	6,882643049	6,845490051	7	6,658211483	6,459431619	6,62935662
AVP	0	0	0	0	0	0
AVPI1	2,584962501	2,321928095	3,584962501	0	0	0
AVPR1A	0	0	0	0	0	2
AVPR1B	0	0	0	0	0	0
AVPR2	0	0	0	0	0	0
AWAT1	0	0	0	0	0	0
AWAT2	0	0	0	1	3,321928095	3,169925001
AXDND1	0	0	0	0	1,584962501	0
AXIN1	5,426264755	5,392317423	5,209453366	5,614709844	5,459431619	5,95419631
AXIN2	5,64385619	5,781359714	5,523561956	6,06608919	6,189824559	4,95419631
AXL	2,584962501	3	1	0	0	0
AZGP1	0	0	0	0	0	0

AZGP1P1	0	0	0	0	0	0
AZI2	8,159871337	8,092757141	8,092757141	8,214319121	8,21916852	8,290018847
AZIN1	8,810571635	8,603626345	8,592457037	8,214319121	8,339850003	8,257387843
AZU1	0	0	0	0	0	0
B2M	13,62285259	13,62285259	13,62285259	12,92295599	13,11715606	12,92295599
B3GALNT1	3,459431619	2,321928095	2,807354922	1	2,321928095	3,169925001
B3GALNT2	4,169925001	3,807354922	3,321928095	4,321928095	4,64385619	4,95419631
B3GALT1	0	0	0	0	0	2
B3GALT2	3,700439718	3,807354922	4	6,62935662	5,977279923	6,409390936
B3GALT4	5,169925001	4,700439718	4,95419631	5,523561956	5,392317423	4,95419631
B3GALT5	0	0	1	1	1,584962501	3,807354922
B3GALT6	6,754887502	6,442943496	6,569855608	5,357552005	5,930737338	3,169925001
B3GAT1	4,247927513	4	4,459431619	3,807354922	4,247927513	3,807354922
B3GAT2	0	2,321928095	1	1	2,321928095	2
B3GAT3	4,459431619	3,584962501	4,459431619	4,700439718	3,700439718	0
B3GNT2	7,339850003	7,14974712	7,247927513	7,339850003	7,321928095	7,672425342
B3GNT3	0	0	0	0	0	0
B3GNT4	0	1	0	0	1,584962501	0
B3GNT5	7,098032083	6,727920455	6,426264755	0	3,700439718	2
B3GNT6	0	0	0	0	0	0
B3GNT7	1	1	0	2,321928095	3	0
B3GNT8	1	0	0	0	0	0
B3GNT9	2,321928095	2,584962501	3	4,523561956	4,459431619	5,169925001
B3GNTL1	1,584962501	2,807354922	3,321928095	4,087462841	3	2
B4GALNT1	0	0	0	0	2,321928095	0
B4GALNT2	0	0	0	0	0	2
B4GALNT3	0	0	0	0	0	0
B4GALNT4	0	0	0	2,321928095	2,321928095	0
B4GALT1	9,28077077	9,513727596	9,259743264	9,54689446	9,519636253	9,189824559
B4GALT2	3,459431619	2,321928095	1,584962501	1	0	0
B4GALT3	7,06608919	7,044394119	7,06608919	7,055282436	7,159871337	6,882643049
B4GALT4	5,209453366	4,523561956	4,906890596	5	5,392317423	5,832890014
B4GALT5	8,243173983	8,194756854	8,174925683	7,022367813	7,383704292	7,409390936
B4GALT6	4	2,321928095	3,169925001	4,087462841	3	2
B4GALT7	5	4,754887502	4,523561956	4,321928095	4	3,169925001
B9D1	0	0	0	0	0	0
B9D2	4,700439718	5	5,044394119	0	3,700439718	2
BAALC	2,807354922	1	1,584962501	0	1,584962501	0
BAAT	0	0	0	1	1,584962501	4,64385619
BABAM1	6	6,044394119	5,977279923	6,266786541	6,087462841	6,06608919
BACE1	3,584962501	4,392317423	2,807354922	0	1,584962501	2
BACE2	1,584962501	1,584962501	0	0	0	3,807354922
BACH1	7,894817763	7,577428828	7,851749041	6,554588852	6,700439718	7,011227255
BACH2	8,14974712	8,330916878	8,22881869	9,337621902	8,977279923	9,299208018
BAD	4	4,169925001	4,169925001	4,087462841	5,087462841	4,64385619
BAG1	6,62935662	6,569855608	6,807354922	6,321928095	6,539158811	6,491853096
BAG2	5,044394119	4,700439718	4,906890596	5,459431619	5,554588852	6,247927513
BAG3	6,044394119	5,426264755	5,906890596	6,584962501	5,857980995	6,754887502
BAG4	6,303780748	5,781359714	6,044394119	6,409390936	6,658211483	6,409390936
BAG5	7,714245518	7,8008999	7,787902559	8,396604781	8,209453366	8,463524373
BAG6	7,21916852	7,21916852	7,189824559	6,62935662	7,17990909	6,569855608
BAGE2	0	0	0	0	0	0
BAHCC1	1,584962501	2,321928095	2	1	0	0
BAHD1	6,807354922	6,392317423	6	6,554588852	5,930737338	5,95419631
BAIAP2	3,807354922	4,169925001	4,523561956	2,321928095	1,584962501	0
BAIAP2L1	1	0	0	0	0	0
BAIAP2L2	0	0	0	0	0	0
BAIAP3	1	2,321928095	1	1	0	3,169925001

BAK1	4,857980995	2,584962501	4,64385619	4,523561956	3,700439718	2
BAMBI	0	1	0	0	0	0
BANF1	6,266786541	6,475733431	6,375039431	5,523561956	6,285402219	5,554588852
BANF2	0	0	0	0	0	0
BANK1	7,266786541	6,988684687	7,118941073	8,233619677	8,139551352	8,434628228
BANP	6,930737338	7,357552005	7,554588852	8,339850003	8,033423002	8,768184325
BAP1	5,523561956	5,459431619	5,672425342	5,357552005	5,781359714	4,321928095
BARD1	6,108524457	5,554588852	5,523561956	6,189824559	6,614709844	6,930737338
BARHL1	0	0	0	0	0	0
BARHL2	0	0	0	0	0	0
BARX1	0	0	0	0	0	0
BARX2	0	1	0	2,807354922	0	3,807354922
BASP1	7,74819285	7,977279923	8	7,658211483	7,924812504	7,918863237
BASP1P1	0	0	0	0	0	0
BATF	5,930737338	5,807354922	6,189824559	6,62935662	6,965784285	7,247927513
BATF2	4,857980995	5,087462841	4,64385619	0	0	0
BATF3	3,459431619	3,700439718	3,321928095	0	2,321928095	3,169925001
BAX	5,044394119	5,169925001	5,672425342	6	6,044394119	5,700439718
BAZ1A	10,12282799	10,09275714	10,05120894	9,902375114	9,943979914	10,06339508
BAZ1B	9,030667136	8,751544059	9,027905997	9,342074668	9,192292814	9,577428828
BAZ2A	9,515699838	9,442943496	9,68474862	9,509775004	9,48984796	9,744833837
BAZ2B	8,84862294	8,727920455	8,861086906	9,076815597	8,845490051	8,939579214
BBC3	7,686500527	7,820178962	7,707359132	7,392317423	7,22881869	7,409390936
BBIP1	6,285402219	6,303780748	6,247927513	6,22881869	6,129283017	5,169925001
BBOX1	1,584962501	0	0	0	0	0
BBS1	0	0	1,584962501	0	1,584962501	0
BBS10	3,584962501	4,700439718	3,584962501	5,357552005	4,459431619	4,321928095
BBS12	3,321928095	3,700439718	2,584962501	2,807354922	0	3,169925001
BBS2	6,614709844	6,266786541	6	6,06608919	6,044394119	5,169925001
BBS4	5,491853096	5,129283017	5,392317423	4,700439718	5,285402219	4,321928095
BBS5	1,584962501	1	0	1	0	0
BBS7	5,285402219	5,392317423	4,857980995	4,857980995	4,64385619	3,169925001
BBS9	4,700439718	4,459431619	4,906890596	5	4,807354922	4,321928095
BBX	9,990103964	9,810571635	10,03617361	10,06069593	10,16364968	10,02652344
BCAM	0	0	0	0	1,584962501	0
BCAN	0	0	0	0	0	0
BCAP29	7,491853096	7,383704292	7,189824559	6,06608919	6,409390936	5,700439718
BCAP31	7,74819285	7,906890596	7,864186145	7,499845887	7,312882955	7,312882955
BCAR1	0	0	0	0	0	0
BCAR3	3,807354922	3	3,584962501	3,321928095	0	3,169925001
BCAR4	0	0	0	0	0	0
BCAS1	3	4	3,169925001	6,129283017	5,64385619	7,098032083
BCAS2	7,357552005	7,257387843	6,882643049	6,658211483	7,139551352	7,055282436
BCAS3	4,584962501	4,754887502	4,584962501	4,321928095	5,285402219	5,832890014
BCAS4	4,95419631	5,584962501	5,584962501	6,06608919	6,321928095	4,64385619
BCAT1	5,882643049	6,189824559	5,247927513	6,06608919	6,247927513	6,700439718
BCAT2	3,459431619	3,584962501	3,700439718	3,807354922	4,247927513	3,169925001
BCCIP	8,098032083	7,942514505	8,22881869	8,724513853	8,693486957	9,027905997
BCDIN3D	4,392317423	5	4,754887502	5,832890014	5,64385619	6,700439718
BCHE	0	0	0	0	0	0
BCKDHA	1,584962501	0	2	1	0	0
BCKDHB	4,459431619	4,459431619	3,807354922	4,523561956	3,321928095	0
BCKDK	5,209453366	4,584962501	4,857980995	3,321928095	4	0
BCL10	7,383704292	7,266786541	7,087462841	7,209453366	7,348728154	7,409390936
BCL11A	7,807354922	7,930737338	7,876516947	8,54303182	8,471675214	8,714245518
BCL11B	10,71080643	10,74651432	10,81938079	11,36358725	11,24555271	11,30663136
BCL2	7,900866808	7,50779464	7,62935662	7,169925001	7,17990909	7,409390936
BCL2A1	7,62935662	7,658211483	7,54689446	7,357552005	7,599912842	7,129283017

BCL2L1	5,044394119	5,247927513	5,459431619	4,087462841	5,087462841	5,169925001
BCL2L10	0	0	0	4,087462841	1,584962501	0
BCL2L11	7,475733431	7,339850003	7,14974712	7,375039431	7,22881869	6,06608919
BCL2L12	4,392317423	4,64385619	5,209453366	0	4,95419631	3,807354922
BCL2L13	7,569855608	7,636624621	7,46760555	7,906890596	7,851749041	8,238404739
BCL2L14	1,584962501	0	1,584962501	0	0	3,169925001
BCL2L15	1	1	2	1	2,321928095	0
BCL2L2	4,64385619	4,169925001	4,392317423	4,857980995	3	5,169925001
BCL2L2-PABPN1	0	0	0	0	0	0
BCL3	7,577428828	7,794415866	8,027905997	7,839203788	7,876516947	7,761551232
BCL6	7,599912842	7,741466986	7,977279923	8,392317423	8,266786541	8,312882955
BCL6B	0	0	0	0	0	0
BCL7A	5,584962501	5,930737338	6,06608919	6,50779464	6,584962501	6,930737338
BCL7B	6,129283017	6,357552005	6,321928095	5,523561956	5,64385619	4,321928095
BCL7C	4,247927513	4,169925001	4,459431619	1	1,584962501	0
BCL9	3,584962501	4,169925001	4	4,321928095	1,584962501	2
BCL9L	8,475733431	8,900866808	9,131856961	8,804131021	8,924812504	8,857980995
BCLAF1	9,583082768	9,457380879	9,601770788	8,980139578	9,005624549	8,836050355
BCO2	2,321928095	2,807354922	2,807354922	3,807354922	3	4,321928095
BCOR	8,14974712	8,108524457	8,189824559	8,13442632	8,209453366	7,700439718
BCORL1	4,700439718	4,700439718	4,95419631	2,321928095	2,321928095	0
BCORP1	4	4	4	4,087462841	3,321928095	5,169925001
BCR	6	6,129283017	6	6,584962501	6,741466986	6,409390936
BCRP2	0	0	0	0	0	0
BCRP3	0	0	0	0	0	2
BCS1L	3,807354922	4,169925001	4,087462841	3,321928095	4	3,169925001
BCYRN1	0	0	0	0	0	0
BDH1	5,169925001	5,357552005	5,754887502	5,882643049	5,930737338	5,700439718
BDH2	3,321928095	3,169925001	3,700439718	2,321928095	2,321928095	0
BDKRB1	0	0	0	0	0	0
BDKRB2	0	0	0	0	0	0
BDNF	0	1	0	0	0	0
BDP1	9,317412614	9,126704473	9,442943496	9,710806434	9,471675214	9,712527
BEAN1	0	0	0	0	0	0
BECN1	9,238404739	9,292321633	9,192292814	9,419960178	9,415741768	9,442943496
BEGAIN	0	0	0	0	0	0
BEND2	1,584962501	2,584962501	1,584962501	2,321928095	2,321928095	2
BEND3	1,584962501	2,321928095	2	0	0	0
BEND4	2,584962501	1	1,584962501	1	1,584962501	0
BEND5	4,247927513	4,169925001	4,64385619	5,459431619	5,169925001	4,321928095
BEND6	0	0	0	1	0	0
BEND7	2,321928095	0	0	2,807354922	1,584962501	3,169925001
BEST1	3,459431619	3,169925001	2	2,321928095	1,584962501	0
BEST2	0	0	0	0	0	0
BEST3	0	0	0	2,321928095	2,321928095	0
BEST4	1	1,584962501	0	4,087462841	0	0
BET1	6,491853096	6,584962501	6,584962501	7,577428828	6,918863237	7,700439718
BET1L	5,832890014	6	6,06608919	5,614709844	6,409390936	3,807354922
BEX1	0	1	0	0	0	0
BEX2	6,189824559	6,375039431	6,285402219	7,515699838	7,366322214	7,721099189
BEX4	6,714245518	6,988684687	7,189824559	6,977279923	6,741466986	6,965784285
BEX5	4,523561956	4,523561956	4,754887502	4,321928095	5,727920455	2
BFAR	6,491853096	6,523561956	6,700439718	6,794415866	6,918863237	7,348728154
BFSP1	0	0	0	0	0	0
BFSP2	0	1	0	0	0	0
BGLAP	0	0	0	0	0	0
BGN	0	0	0	0	0	0
BHLHA15	0	0	0	0	0	0

BHLHA9	0	0	0	0	0	0
BHLHB9	2,807354922	3,807354922	3	4,700439718	3,700439718	4,95419631
BHLHE22	0	0	0	1	1,584962501	0
BHLHE23	0	0	0	0	0	0
BHLHE40	7,768184325	7,906890596	8,113742166	7,62935662	7,942514505	7,741466986
BHLHE41	8,357552005	8,30833903	8,164906927	5,357552005	6,321928095	4,95419631
BHMT	0	0	0	3,321928095	0	3,169925001
BHMT2	0	0	0	2,321928095	2,321928095	0
BICC1	1,584962501	2,321928095	2	0	3	0
BICD1	5,727920455	5,857980995	6,087462841	7,357552005	7,348728154	7,894817763
BICD2	8,64385619	8,632995197	8,388017285	8,184875343	7,977279923	8,330916878
BID	7,383704292	7,375039431	7,54689446	5,247927513	5,781359714	5,832890014
BIK	1,584962501	2,584962501	2,584962501	0	4	0
BIN1	6,539158811	6,523561956	6,06608919	6,882643049	7,285402219	6,491853096
BIN2	8,618385502	8,276124405	8,400879436	8,50779464	8,194756854	7,761551232
BIN3	5,64385619	5,584962501	5,882643049	5,129283017	5,64385619	5,700439718
BIRC2	8,584962501	8,483815777	8,299208018	9,471675214	9,192292814	9,776433032
BIRC3	10,51076417	10,39553414	10,50779464	11,18177344	11,21249639	11,13249973
BIRC5	0	1	1	0	0	0
BIRC6	8,721099189	8,554588852	8,6794801	9,269126679	8,948367232	9,583082768
BIRC7	1,584962501	1,584962501	1,584962501	0	0	0
BIRC8	1	0	0	0	0	0
BIVM	5,426264755	5,554588852	5,459431619	6,554588852	5,554588852	5,700439718
BIVM-ERCC5	0	0	0	0	0	0
BLCAP	6,965784285	7,129283017	7,400879436	7,864186145	7,807354922	7,672425342
BLID	0	0	0	0	0	0
BLK	2,584962501	3,906890596	3,807354922	4,087462841	4,247927513	3,169925001
BLM	4,169925001	4,392317423	4,392317423	4,523561956	5,64385619	5,357552005
BLMH	5,906890596	6,303780748	6,321928095	7,459431619	7,50779464	7,562242424
BLNK	6,658211483	6,409390936	6,714245518	6,977279923	6,584962501	7,055282436
BLOC1S1	6,044394119	5,95419631	5,906890596	4,087462841	5,285402219	2
BLOC1S2	8,321928095	8,618385502	8,622051819	7,794415866	8,159871337	7,851749041
BLOC1S3	5,491853096	5,523561956	5	2,807354922	5,64385619	5,357552005
BLVRA	6,303780748	6,614709844	6,108524457	3,807354922	4,459431619	0
BLVRB	6,569855608	6,930737338	7,321928095	4,087462841	4,64385619	4,64385619
BLZF1	5,672425342	5,781359714	6	4,087462841	4,64385619	3,807354922
BMF	6,108524457	6,108524457	6,285402219	5,930737338	6,247927513	5,832890014
BMI1	7,339850003	7,285402219	7,189824559	7,62935662	7,794415866	7,64385619
BMP1	1	2,321928095	1	0	0	0
BMP10	0	0	0	0	0	0
BMP15	0	0	0	0	0	0
BMP2	0	0	0	0	0	0
BMP2K	7,383704292	7,159871337	6,820178962	6,22881869	5,64385619	5,95419631
BMP3	2,321928095	0	0	0	0	0
BMP4	0	0	0	0	0	0
BMP5	0	0	0	0	0	0
BMP6	2,584962501	0	0	0	0	3,169925001
BMP7	0	0	0	0	0	0
BMP8A	0	0	0	0	0	0
BMP8B	2,584962501	2,807354922	3,321928095	0	0	4,321928095
BMPER	0	0	0	0	1,584962501	0
BMPR1A	4,459431619	4,906890596	4,087462841	3,807354922	4,247927513	3,169925001
BMPR1B	1	0	0	0	0	3,807354922
BMPR2	8,129283017	7,982993575	8,044394119	7,794415866	7,73470962	7,741466986
BMS1	7,741466986	7,95419631	7,794415866	8,409390936	8,413627929	8,463524373
BMS1P1	1	0	1	1	2,321928095	2
BMS1P4	2,807354922	2,584962501	2,807354922	3,321928095	1,584962501	2
BMX	1	1,584962501	2	3,321928095	4	0

BNC1	0	0	0	0	0	0
BNC2	4,523561956	4,169925001	3,584962501	5	5,459431619	6,62935662
BNIP1	3,321928095	3,321928095	4,087462841	2,321928095	3,321928095	2
BNIP2	9,271463028	9,317412614	9,231221181	9,147204925	8,86727874	9,154818109
BNIP3	7,285402219	7,400879436	7,392317423	6,266786541	7,321928095	5,95419631
BNIP3L	9,689997971	9,791162889	9,754887502	8,845490051	9,342074668	8,515699838
BNIPL	1,584962501	1,584962501	3	2,321928095	2,321928095	0
BOC	0	0	0	0	0	2
BOD1	6,321928095	6,303780748	6,189824559	7,22881869	6,768184325	6,321928095
BOK	1	1	0	0	0	0
BOK-AS1	0	1	0	1	0	0
BOLA1	4,700439718	4,321928095	4,169925001	5,459431619	4,807354922	4,321928095
BOLA2	0	0	0	0	0	0
BOLA2B	0	0	0	0	0	0
BOLA3	5,832890014	6,087462841	6,044394119	5,523561956	5,781359714	6,409390936
BOLA3-AS1	1	1,584962501	1,584962501	0	2,321928095	0
BOLL	0	0	0	0	0	0
BOP1	3,459431619	4,392317423	4,857980995	0	2,321928095	0
BORA	5,554588852	5,781359714	5,584962501	5,129283017	5,285402219	3,807354922
BPESC1	0	1	0	0	0	0
BPGM	5,357552005	4,64385619	5,247927513	4,321928095	5,285402219	5,169925001
BPHL	2,584962501	4	3,169925001	0	4,247927513	3,807354922
BPI	2,807354922	2,584962501	2,584962501	1	3	2
BPIFA1	0	0	0	0	0	0
BPIFA2	0	0	0	0	0	0
BPIFA3	0	0	0	0	1,584962501	3,169925001
BPIFA4P	0	0	0	2,321928095	1,584962501	0
BPIFB1	0	0	0	0	0	0
BPIFB2	0	0	0	0	0	0
BPIFB3	0	0	0	0	0	0
BPIFB4	0	0	0	0	0	0
BPIFB6	0	0	0	0	0	0
BPIFC	0	0	0	1	2,321928095	3,169925001
BPNT1	5,930737338	5,247927513	5,614709844	5,129283017	5,977279923	4,321928095
BPTF	10,57837269	10,52552081	10,57553925	10,82336724	10,79522797	10,81618368
BPY2	0	0	0	0	0	0
BPY2B	0	0	0	0	0	0
BPY2C	0	0	0	0	0	0
BRAF	7,348728154	7,577428828	7,73470962	7,960001932	7,832890014	7,942514505
BRAP	6,339850003	6,599912842	6,303780748	6,95419631	6,857980995	7,098032083
BRAT1	4,64385619	5,584962501	5,209453366	4,087462841	4,807354922	0
BRCA1	4,906890596	4,321928095	4,392317423	4,700439718	4,247927513	3,169925001
BRCA2	6,108524457	6,129283017	6,129283017	3,321928095	4,459431619	4,64385619
BRCC3	7,330916878	7,199672345	6,754887502	7,169925001	7,491853096	6,930737338
BRD1	7,417852515	7,531381461	7,303780748	8,14974712	8,082149041	8,238404739
BRD2	9,375039431	9,447083226	9,499845887	9,726218159	9,845490051	9,714245518
BRD3	7,971543554	8,189824559	8,139551352	8,584962501	8,558420713	8,366322214
BRD4	9,890264277	9,871905238	10,01680829	10,30833903	10,21674586	10,49385545
BRD7	6,977279923	7	7,199672345	7,768184325	7,434628228	7,562242424
BRD8	7,409390936	7,459431619	7,577428828	8,139551352	8,033423002	8,257387843
BRD9	6,781359714	6,62935662	7,055282436	7,14974712	7,209453366	6,930737338
BRDT	0	0	1,584962501	2,807354922	3	2
BRF1	3,906890596	5,087462841	5,554588852	4,700439718	5,554588852	5,554588852
BRF2	5,321928095	5,672425342	5,129283017	5,129283017	5,727920455	4,64385619
BRi3	8,97441459	8,948367232	8,957102042	6,977279923	6,965784285	7,209453366
BRi3BP	6,768184325	6,930737338	6,303780748	5,930737338	5,727920455	5,357552005
BRIP1	3,807354922	2,807354922	3	2,321928095	4	2
BRIX1	7,139551352	6,686500527	6,50779464	7,285402219	7,599912842	7,851749041

BRK1	7,417852515	7,707359132	7,17990909	7,303780748	7,62935662	7,169925001
BRMS1	5,727920455	5,459431619	5,426264755	5,459431619	5,459431619	5,357552005
BRMS1L	4,754887502	4,95419631	4,700439718	4,087462841	4	4,64385619
BROX	8,807354922	8,781359714	8,854868383	8,936637939	8,86727874	8,965784285
BRPF1	6,741466986	6,614709844	6,741466986	6,321928095	6,918863237	6,62935662
BRPF3	5,700439718	6	5,857980995	4,321928095	4,95419631	5,169925001
BRS3	0	0	0	0	0	0
BRSK1	0	0	0	0	0	0
BRSK2	0	0	1	0	0	0
BRWD1	8,764871591	8,651051691	8,854868383	9,262094845	8,962896005	9,355351096
BRWD3	7,900866808	7,8008999	8,060695932	7,794415866	7,807354922	7,851749041
BSCL2	0	0	0	0	0	0
BSDC1	7,076815597	7,055282436	7,17990909	7,321928095	6,700439718	7,348728154
BSG	6,189824559	6	5,807354922	5,930737338	6,247927513	5,357552005
BSN	0	0	0	0	0	0
BSND	0	0	0	0	0	0
BSPH1	0	0	0	0	0	0
BSPRY	0	0	3	1	2,321928095	2
BST1	6,741466986	7,108524457	6,554588852	4,321928095	2,321928095	0
BST2	7,693486957	7,960001932	7,707359132	7,442943496	7,475733431	7,515699838
BSX	0	0	0	0	0	0
BTAF1	7,948367232	7,714245518	7,851749041	8,124121312	8,103287808	8,515699838
BTBD1	5,672425342	6,044394119	6,392317423	5,523561956	6,129283017	6,247927513
BTBD10	6,50779464	6,357552005	6,285402219	6,321928095	6,768184325	6,409390936
BTBD11	5,247927513	5,247927513	5,209453366	6,95419631	6,614709844	6,700439718
BTBD16	0	1	1	2,321928095	0	2
BTBD17	0	0	0	0	0	0
BTBD18	0	0	0	0	0	0
BTBD19	1,584962501	3,321928095	2,807354922	3,807354922	3,700439718	4,64385619
BTBD2	4,459431619	4,523561956	4,95419631	4,700439718	4,64385619	3,807354922
BTBD3	3,584962501	3,169925001	3	0	0	0
BTBD6	5,129283017	5,169925001	5,727920455	4,700439718	4,95419631	4,95419631
BTBD7	8,426264755	8,592457037	8,487840034	8,625708843	8,379378367	8,584962501
BTBD8	4,392317423	3,807354922	4,392317423	5	4,459431619	4,64385619
BTBD9	5	4,95419631	5,044394119	4,321928095	4,807354922	4,321928095
BTC	0	1	0	0	0	0
BTD	4,64385619	4,857980995	3,906890596	2,321928095	3	0
BTF3	8,826548487	8,985841937	9,022367813	9,873444113	9,840777924	9,902375114
BTF3L4	7,721099189	7,781359714	7,285402219	6,266786541	7	5,95419631
BTF3P11	0	0	0	0	0	0
BTG1	11,78545247	11,81097322	11,93553341	11,45532722	11,62021983	11,45532722
BTG2	9,092757141	9,068778278	9,071462363	8,124121312	8,483815777	8,033423002
BTG3	7,312882955	7,321928095	7,159871337	6,409390936	6,409390936	5,700439718
BTG4	0	0	0	0	0	0
BTk	5,727920455	5,882643049	5,672425342	4,857980995	4	4,64385619
BTLA	5,357552005	5,523561956	5,321928095	6	5,977279923	6,491853096
BTN1A1	0	0	0	0	0	3,169925001
BTN2A1	7,845490051	7,781359714	7,826548487	8,54303182	8,233619677	8,686500527
BTN2A2	6,539158811	6,714245518	6,584962501	5,754887502	5,781359714	5,169925001
BTN2A3P	3	3,169925001	3,169925001	4,321928095	3,700439718	5,832890014
BTN3A1	8,366322214	8,592457037	8,622051819	8,531381461	8,707359132	8,257387843
BTN3A2	7,982993575	8,076815597	7,918863237	8,741466986	8,426264755	8,312882955
BTN3A3	7,651051691	7,820178962	7,6794801	8,022367813	7,948367232	7,64385619
BTNL2	0	0	0	0	0	0
BTNL3	0	0	0	0	0	0
BTNL8	0	0	0	0	2,321928095	0
BTNL9	1	3,169925001	2,807354922	2,321928095	0	0
BTRC	5,700439718	6,108524457	5,247927513	5,882643049	6,129283017	5,832890014

BUB1	3	2,584962501	1,584962501	4,700439718	3	3,807354922
BUB1B	2,321928095	1	1,584962501	0	1,584962501	2
BUB3	8,562242424	8,73470962	8,8008999	8,584962501	8,54689446	8,174925683
BUD13	6,409390936	5,95419631	6,321928095	6,50779464	6,942514505	6,569855608
BUD31	7,06608919	7,392317423	7,672425342	7,14974712	7,491853096	7,442943496
BVES	0	0	0	0	0	0
BVES-AS1	0	0	0	0	0	0
BYSL	3,807354922	3,169925001	3,321928095	1	3,321928095	0
BZW1	7,813781191	7,741466986	8,082149041	7,876516947	8,159871337	8,257387843
BZW2	6,845490051	7	6,614709844	7,426264755	7,658211483	7,276124405
C10orf105	0	0	0	4,857980995	3	4,321928095
C10orf111	0	0	0	3,321928095	1,584962501	2
C10orf113	0	0	0	0	0	0
C10orf120	0	0	0	0	0	0
C10orf25	2,584962501	2,807354922	0	2,321928095	3	0
C10orf53	0	0	0	0	0	0
C10orf55	3	3,169925001	0	0	0	0
C10orf62	0	0	0	0	0	0
C10orf67	0	1	2	3,807354922	4,247927513	5,169925001
C10orf71	0	0	0	0	0	0
C10orf82	0	0	0	0	0	0
C10orf88	4,64385619	3,807354922	3,169925001	5,700439718	4,95419631	3,169925001
C10orf90	0	0	0	0	0	2
C10orf91	1	0	0	1	1,584962501	2
C10orf95	0	0	0	2,807354922	0	0
C10orf99	0	0	0	0	0	2
C11orf1	3,459431619	3,906890596	3,700439718	6,06608919	5,727920455	6,700439718
C11orf16	0	0	0	0	0	0
C11orf21	5,672425342	5,64385619	5,977279923	5,129283017	5,169925001	3,807354922
C11orf24	4,857980995	4	4,169925001	1	2,321928095	3,169925001
C11orf40	0	0	0	0	0	0
C11orf42	0	0	0	0	0	0
C11orf45	0	0	0	0	0	0
C11orf49	3,584962501	4,087462841	2,584962501	2,321928095	5,087462841	3,169925001
C11orf52	0	0	0	0	0	0
C11orf53	0	0	0	0	0	0
C11orf54	7,409390936	7,266786541	7,392317423	7,442943496	7,64385619	7,672425342
C11orf58	9,46760555	9,262094845	9,330916878	9,787902559	9,640244936	9,847057346
C11orf65	2,321928095	2,321928095	1	2,321928095	1,584962501	0
C11orf68	4,95419631	5,044394119	5,209453366	4,857980995	5,087462841	5,169925001
C11orf71	5,700439718	5,554588852	5,426264755	6,768184325	6,189824559	7,247927513
C11orf74	2,807354922	2,807354922	3,321928095	4,857980995	1,584962501	4,95419631
C11orf80	1	0	2	2,807354922	1,584962501	3,807354922
C11orf86	0	0	0	0	0	0
C11orf87	1	0	0	0	0	0
C11orf88	0	0	0	0	0	0
C11orf91	0	0	0	0	0	0
C11orf94	0	0	0	0	0	0
C11orf95	2,584962501	3,321928095	3,584962501	3,321928095	2,321928095	0
C11orf96	1	0	1	1	0	2
C12orf10	4,906890596	4,392317423	5	5,247927513	5,392317423	5,169925001
C12orf29	5,584962501	5,523561956	5,426264755	5,882643049	5,977279923	6,247927513
C12orf4	6,50779464	6,539158811	6,247927513	6,06608919	6,129283017	5,832890014
C12orf40	0	0	0	0	0	0
C12orf42	3,459431619	4,64385619	4,087462841	5,247927513	4,95419631	5,832890014
C12orf43	4,584962501	5,087462841	5,392317423	5	4,247927513	3,807354922
C12orf45	5,64385619	5,807354922	5,930737338	5,459431619	5,727920455	5,554588852
C12orf49	6,754887502	6,62935662	6,599912842	6,930737338	7,108524457	6,321928095

C12orf50	1	2,321928095	3,321928095	4,857980995	5,087462841	6,247927513
C12orf54	0	0	0	0	4	4,321928095
C12orf56	0	0	0	0	1,584962501	0
C12orf57	6,614709844	7,033423002	6,658211483	8,312882955	8,330916878	8,413627929
C12orf60	1	1	1,584962501	0	2,321928095	0
C12orf65	6,599912842	6,918863237	6,727920455	8,071462363	7,876516947	7,64385619
C12orf66	4,459431619	5	4,523561956	4,700439718	5,392317423	2
C12orf71	0	0	0	0	0	0
C12orf73	4	4,169925001	4,247927513	5,700439718	5,459431619	5,700439718
C12orf75	7,539158811	7,442943496	7,21916852	7,64385619	7,832890014	7,64385619
C12orf76	5,584962501	5,781359714	5,491853096	6,554588852	6,321928095	6,169925001
C12orf77	1	0	0	2,807354922	0	3,169925001
C14orf119	7,108524457	7,055282436	7,159871337	7,169925001	7,022367813	6,965784285
C14orf132	3,700439718	3	3,584962501	4,087462841	4,459431619	4,64385619
C14orf177	0	0	0	0	0	0
C14orf178	0	0	0	0	0	0
C14orf180	0	0	0	0	0	0
C14orf28	4,906890596	5,087462841	4,857980995	4,321928095	5,285402219	5,357552005
C14orf39	0	0	0	0	1,584962501	0
C14orf93	3,807354922	3	3,584962501	3,321928095	4,247927513	0
C15orf32	0	0	0	0	0	0
C15orf38-AP3S2	0	0	0	0	0	0
C15orf39	5,700439718	4,754887502	5,426264755	3,321928095	4,459431619	0
C15orf40	5,584962501	6,189824559	5,426264755	7,459431619	6,741466986	7,375039431
C15orf41	3,459431619	3	3,584962501	4,857980995	4,807354922	5,554588852
C15orf48	9,842350343	9,864186145	9,614709844	7,129283017	7,924812504	6,321928095
C15orf53	4,169925001	4,321928095	3,169925001	6,22881869	6,584962501	6,882643049
C15orf54	0	0	0	0	0	0
C15orf56	0	0	0	0	0	0
C15orf61	6,247927513	6,442943496	6,169925001	6,321928095	6,741466986	5,700439718
C15orf62	0	0	2,807354922	4,321928095	4,247927513	2
C16orf45	2,321928095	2,321928095	3,321928095	1	2,321928095	2
C16orf46	0	2,321928095	0	1	0	0
C16orf54	7,357552005	7,339850003	7,011227255	7,741466986	7,321928095	7,129283017
C16orf58	3,700439718	3,584962501	4	5	4,807354922	2
C16orf70	5,64385619	5,584962501	5,491853096	5,247927513	4,95419631	4,321928095
C16orf71	0	0	0	0	0	0
C16orf72	7,266786541	7,339850003	6,832890014	8,011227255	8,071462363	8,129283017
C16orf74	2,807354922	3,700439718	3,807354922	2,321928095	2,321928095	0
C16orf78	0	0	0	0	0	3,169925001
C16orf82	0	0	0	0	0	0
C16orf86	0	2,584962501	3,321928095	0	2,321928095	2
C16orf87	6,882643049	6,894817763	6,599912842	6,50779464	6,375039431	6,62935662
C16orf89	0	0	0	0	0	0
C16orf90	0	0	0	0	0	0
C16orf91	4,754887502	4,700439718	5,129283017	5,129283017	5,169925001	5,554588852
C16orf92	0	0	0	0	0	0
C16orf95	1,584962501	1	1,584962501	0	0	0
C16orf96	0	0	0	0	0	0
C17orf100	2,321928095	2,321928095	0	0	0	2
C17orf102	0	0	0	0	1,584962501	0
C17orf107	0	1	0	0	0	0
C17orf47	0	0	0	0	0	0
C17orf49	1	1	0	2,321928095	0	3,169925001
C17orf50	0	0	0	0	0	0
C17orf51	3,584962501	4	3,584962501	0	2,321928095	0
C17orf53	0	0	0	0	0	0
C17orf58	5,129283017	4,754887502	5,044394119	0	0	0

C17orf64	0	0	0	0	0	0
C17orf67	3,459431619	2,807354922	3,700439718	5,129283017	3,321928095	3,169925001
C17orf75	6,06608919	6,209453366	5,523561956	6,741466986	6,129283017	6,820178962
C17orf77	0	0	0	2,321928095	0	0
C17orf78	0	0	0	0	0	0
C17orf80	5,491853096	5,285402219	5,426264755	6,129283017	5,169925001	5,169925001
C17orf82	0	0	0	0	0	0
C17orf97	3,321928095	3,584962501	3,321928095	4,857980995	4	3,169925001
C17orf98	0	0	0	0	0	2
C17orf99	1	1	2,807354922	4,700439718	4,459431619	4,64385619
C18orf21	5,392317423	5,285402219	4,95419631	4,523561956	5,392317423	5,169925001
C18orf25	6,977279923	7,011227255	6,807354922	7,055282436	6,965784285	7,129283017
C18orf32	5,906890596	6,087462841	5,459431619	6,129283017	5,459431619	7,169925001
C18orf54	3,906890596	5,044394119	4,64385619	5,459431619	5,392317423	5,95419631
C18orf63	0	0	1	0	0	3,169925001
C19orf12	7,434628228	6,882643049	7,033423002	6,584962501	7	6,247927513
C19orf18	2,321928095	1,584962501	0	6,375039431	5,169925001	6,569855608
C19orf24	5,584962501	5,781359714	5,754887502	5,832890014	6,321928095	5,357552005
C19orf25	4,459431619	4,700439718	5,044394119	4,321928095	5,087462841	0
C19orf33	0	0	0	0	0	0
C19orf38	5,614709844	6,087462841	5,700439718	4,087462841	3,321928095	5,357552005
C19orf44	1,584962501	2,584962501	1,584962501	0	0	0
C19orf47	3,807354922	3,584962501	3,584962501	0	0	0
C19orf48	2,321928095	2,807354922	3,321928095	0	3	0
C19orf53	6,686500527	6,554588852	6,523561956	7,426264755	6,918863237	7,247927513
C19orf54	2,584962501	2,584962501	3	1	0	3,169925001
C19orf57	0	0	0	0	0	0
C19orf66	5,321928095	5,357552005	5,727920455	5,357552005	5,857980995	3,807354922
C19orf70	4,700439718	4,64385619	5,459431619	5,459431619	4,807354922	4,95419631
C19orf71	0	0	0	0	0	0
C19orf73	0	0	0	0	0	0
C19orf81	0	0	0	0	0	0
C1D	6,266786541	6,285402219	6	6,266786541	5,930737338	6,247927513
C1GALT1	7,918863237	7,417852515	7,754887502	7,339850003	7,139551352	7,276124405
C1GALT1C1	6,832890014	6,807354922	6,672425342	6,50779464	6,50779464	6,169925001
C1orf100	0	0	0	1	0	0
C1orf105	0	0	0	0	0	0
C1orf109	4,64385619	3,584962501	4,169925001	5,129283017	5,554588852	5,832890014
C1orf112	3,700439718	2,321928095	3,700439718	2,807354922	0	3,169925001
C1orf115	0	0	2,584962501	0	0	0
C1orf116	0	0	0	1	0	0
C1orf122	5,285402219	5,321928095	5,584962501	5,357552005	5,459431619	4,64385619
C1orf123	6,087462841	5,882643049	6,108524457	5,832890014	5,930737338	5,357552005
C1orf127	0	0	0	0	0	0
C1orf131	7,754887502	7,820178962	7,741466986	8,071462363	8,257387843	8,016808288
C1orf141	0	0	0	0	0	0
C1orf146	0	0	0	0	0	0
C1orf158	0	0	0	0	0	0
C1orf159	3,321928095	4,169925001	3,700439718	4,321928095	3,700439718	4,321928095
C1orf162	5,64385619	5,727920455	5,523561956	5,357552005	4,807354922	5,169925001
C1orf174	7,055282436	6,845490051	6,832890014	6,930737338	7,348728154	6,965784285
C1orf185	0	0	0	0	0	0
C1orf189	0	0	0	0	0	0
C1orf194	0	0	0	0	0	0
C1orf198	2,584962501	3	1	1	3	2
C1orf21	7,6794801	7,451211112	7,554588852	7,906890596	7,924812504	7,894817763
C1orf210	0	0	0	0	0	0
C1orf216	4,247927513	4,95419631	4,95419631	0	3,700439718	0

C1orf220	1	0	0	0	1,584962501	0
C1orf226	0	0	0	0	0	0
C1orf229	0	0	0	0	0	0
C1orf35	5,700439718	5,832890014	6,087462841	6,658211483	6,614709844	6,754887502
C1orf43	8,596189756	8,6794801	8,379378367	8,82336724	8,845490051	8,95419631
C1orf50	4,523561956	4,459431619	4,392317423	5,129283017	4,64385619	5,357552005
C1orf52	6,62935662	6,832890014	6,569855608	7,459431619	7,599912842	7,442943496
C1orf53	0	1,584962501	1,584962501	0	0	0
C1orf54	5,491853096	5,554588852	5,129283017	1	3,321928095	0
C1orf56	3,459431619	3,321928095	3	3,807354922	2,321928095	3,169925001
C1orf61	1,584962501	0	1,584962501	3,321928095	1,584962501	4,321928095
C1orf68	0	0	0	0	0	0
C1orf74	4,169925001	3,807354922	3,584962501	2,321928095	4,459431619	0
C1orf87	0	0	0	0	0	0
C1orf94	0	0	0	0	0	0
C1QA	5,392317423	5,129283017	4,700439718	1	1,584962501	0
C1QB	4,584962501	4,459431619	4,247927513	0	0	0
C1QBP	7,303780748	7,238404739	6,988684687	8,087462841	8,103287808	8,312882955
C1QC	5,247927513	5,392317423	5,672425342	0	0	0
C1QL1	0	0	0	0	0	0
C1QL2	0	0	0	0	0	0
C1QL3	0	0	0	0	0	0
C1QL4	0	0	0	0	0	0
C1QTNF1	0	0	0	1	0	0
C1QTNF2	0	0	0	0	0	0
C1QTNF3	2,584962501	3,169925001	3,700439718	1	3,321928095	0
C1QTNF4	0	0	0	0	0	0
C1QTNF5	0	0	0	0	0	0
C1QTNF6	3,321928095	3,807354922	2,807354922	6,700439718	5,392317423	7,169925001
C1QTNF7	1	0	0	2,807354922	0	0
C1QTNF8	0	0	0	0	0	0
C1QTNF9	0	0	0	0	0	2
C1QTNF9B	0	0	0	0	0	0
C1R	2,807354922	1,584962501	1,584962501	0	2,321928095	0
C1RL	5,392317423	5,285402219	5,321928095	5	4,247927513	3,807354922
C1S	2,584962501	1	1,584962501	6,409390936	5,554588852	6,62935662
C2	4,392317423	4,087462841	4,392317423	2,321928095	0	4,95419631
C20orf141	0	0	0	0	0	0
C20orf144	0	0	0	0	0	0
C20orf173	0	0	0	0	0	0
C20orf194	6,266786541	5,977279923	5,882643049	4,857980995	5,087462841	3,169925001
C20orf197	1,584962501	1	0	3,807354922	0	0
C20orf202	0	0	0	0	0	3,169925001
C20orf203	0	0	0	0	0	0
C20orf27	5,044394119	5,169925001	5,491853096	4,321928095	3,700439718	4,321928095
C20orf85	0	0	0	0	0	0
C20orf96	2,584962501	1	0	2,321928095	3	2
C21orf58	2,321928095	1	2,584962501	4,857980995	3	4,321928095
C21orf62	0	0	0	0	1,584962501	0
C21orf91	8,092757141	8,348728154	8,243173983	8,294620749	8,515699838	8,603626345
C21orf91-OT1	0	0	0	0	0	0
C22orf15	0	0	1	0	0	0
C22orf23	0	0	0	0	0	0
C22orf24	0	0	0	0	0	0
C22orf31	0	0	0	0	0	0
C22orf34	3,459431619	3,169925001	4,392317423	1	2,321928095	3,807354922
C22orf39	7,129283017	6,894817763	6,599912842	7	7,159871337	6,409390936
C22orf42	0	0	0	0	0	0

C22orf46	3,584962501	3,906890596	3,807354922	5,247927513	4,459431619	3,807354922
C2CD2	4,95419631	4,523561956	4,64385619	3,321928095	4,807354922	2
C2CD2L	6,554588852	6,741466986	7,033423002	5,754887502	4,95419631	5,832890014
C2CD3	5,209453366	4,906890596	4,754887502	5,459431619	5,392317423	6,491853096
C2CD4A	2,321928095	0	0	0	1,584962501	0
C2CD4B	0	0	0	0	0	0
C2CD4C	0	0	0	0	0	0
C2CD4D	0	0	0	0	0	0
C2orf15	2,321928095	0	2	3,321928095	3,321928095	2
C2orf16	0	0	0	1	1,584962501	3,169925001
C2orf27A	1	2,807354922	1,584962501	2,321928095	0	0
C2orf27B	0	0	0	0	0	0
C2orf40	0	2,321928095	2	3,321928095	0	5,357552005
C2orf42	4	4,087462841	4	4,700439718	4,459431619	4,321928095
C2orf48	0	0	0	0	0	0
C2orf49	7,011227255	6,584962501	6,584962501	7,475733431	7,475733431	7,375039431
C2orf50	0	0	0	0	0	0
C2orf66	0	0	0	0	0	0
C2orf68	5,64385619	5,727920455	5,491853096	6,62935662	6,321928095	6,169925001
C2orf69	7,276124405	7,209453366	7,139551352	6,977279923	7,06608919	7,247927513
C2orf70	0	0	0	0	0	0
C2orf72	0	0	0	0	0	0
C2orf73	0	0	0	0	0	0
C2orf74	3,321928095	3,700439718	2,584962501	1	4,247927513	2
C2orf76	3,906890596	3,584962501	3,584962501	6	5,781359714	6,321928095
C2orf78	0	0	0	0	0	0
C2orf80	0	0	0	0	0	0
C2orf81	0	0	0	0	0	0
C2orf83	0	0	1	0	0	0
C2orf88	4	3,906890596	2,807354922	3,321928095	4,64385619	3,807354922
C2orf91	0	0	0	3,321928095	0	3,807354922
C3	4	3,169925001	4,087462841	1	1,584962501	0
C3AR1	6,700439718	6,727920455	6,727920455	3,807354922	4,247927513	3,807354922
C3orf14	4	3,906890596	3,906890596	0	0	0
C3orf18	3,700439718	3,700439718	2,807354922	2,807354922	3,321928095	0
C3orf20	0	0	0	0	0	0
C3orf22	0	0	0	0	0	0
C3orf30	0	0	0	0	0	0
C3orf33	1	2,321928095	2,807354922	2,807354922	0	2
C3orf35	1,584962501	1,584962501	3,321928095	1	0	3,807354922
C3orf38	6,857980995	6,832890014	6,62935662	6,845490051	7,044394119	7,209453366
C3orf49	0	0	0	0	0	0
C3orf52	0	0	0	0	0	0
C3orf58	6,768184325	6,918863237	6,321928095	5,754887502	5,727920455	4,95419631
C3orf62	6,108524457	6,209453366	6,247927513	6,794415866	6,741466986	6,820178962
C3orf67	0	1	0	1	0	2
C3orf70	0	1	0	2,321928095	1,584962501	0
C3orf79	0	0	0	0	0	0
C3orf80	0	0	0	0	0	0
C3P1	0	0	0	0	0	0
C4A	0	0	0	0	0	0
C4B	0	0	0	0	0	0
C4BPA	0	0	0	1	1,584962501	0
C4BPB	1,584962501	0	1,584962501	0	0	0
C4orf17	0	0	0	0	0	0
C4orf19	0	0	0	0	0	0
C4orf3	8,95419631	9,209453366	8,957102042	8,836050355	9,290018847	8,603626345
C4orf33	6,129283017	6,087462841	5,930737338	4,087462841	4,459431619	3,807354922

C4orf36	0	0	0	0	0	0
C4orf45	0	0	0	0	0	0
C4orf46	4,906890596	5,087462841	5,247927513	3,807354922	5,64385619	4,64385619
C4orf47	2,584962501	2,584962501	3	4,523561956	2,321928095	4,321928095
C4orf48	4,169925001	3,807354922	4,087462841	1	0	0
C4orf51	0	0	0	0	0	0
C5	2,584962501	2,807354922	3,169925001	3,321928095	3	5,700439718
C5AR1	7,948367232	7,960001932	7,930737338	4,087462841	5,977279923	4,64385619
C5orf15	7,74819285	7,515699838	7,459431619	7,076815597	7,383704292	6,491853096
C5orf22	6,584962501	6,50779464	6,303780748	6,554588852	6,044394119	6,820178962
C5orf24	6,942514505	6,832890014	6,882643049	7,22881869	6,700439718	6,409390936
C5orf30	4,321928095	3,906890596	3,700439718	2,321928095	1,584962501	3,169925001
C5orf34	1,584962501	3,169925001	0	2,321928095	2,321928095	3,169925001
C5orf38	0	0	0	2,321928095	1,584962501	0
C5orf46	0	0	0	0	0	0
C5orf47	0	0	0	2,321928095	1,584962501	0
C5orf49	0	0	0	0	0	0
C5orf51	6,714245518	6,754887502	6,554588852	7,055282436	6,741466986	7,011227255
C5orf52	0	0	0	0	0	0
C5orf56	8,791162889	9	9,184875343	9,2644426	9,556506055	9,057991723
C5orf58	0	0	0	0	0	0
C5orf60	0	0	0	0	1,584962501	2
C5orf63	3,906890596	4,523561956	4,247927513	5,930737338	4,95419631	5,95419631
C5orf64	0	0	0	0	0	0
C6	0	0	0	0	0	0
C6orf10	1	0	0	0	3,321928095	0
C6orf106	8,038918989	8,033423002	8,344295908	7,971543554	8,092757141	7,994353437
C6orf118	0	0	0	0	0	0
C6orf120	5,977279923	5,930737338	5,672425342	4,700439718	4	4,321928095
C6orf132	0	0	0	0	2,321928095	3,169925001
C6orf136	3,700439718	4,087462841	4,459431619	3,321928095	2,321928095	0
C6orf141	0	0	0	0	0	0
C6orf15	0	0	0	0	0	0
C6orf163	1	1	1	1	0	2
C6orf201	0	0	0	0	0	0
C6orf203	6,266786541	5,95419631	6,108524457	6,459431619	6,50779464	5,357552005
C6orf222	0	0	0	2,321928095	3	5,169925001
C6orf223	0	1	0	0	0	0
C6orf226	4,169925001	4,857980995	4,95419631	5,247927513	5,392317423	5,357552005
C6orf47	5,672425342	6,044394119	5,882643049	5,129283017	5,727920455	5,95419631
C6orf48	7,6794801	7,960001932	8	9,076815597	9,131856961	9,315149562
C6orf52	0	0	0	2,807354922	0	3,169925001
C6orf58	1,584962501	0	0	0	1,584962501	3,807354922
C6orf62	10,17866485	9,985841937	9,851749041	9,960001932	9,862637358	10,17242751
C6orf89	7,900866808	7,930737338	7,794415866	8,159871337	8,174925683	8,129283017
C6orf99	0	0	0	0	0	0
C7	0	0	0	1	0	0
C7orf25	1,584962501	0	0	0	0	2
C7orf26	6,087462841	6,108524457	5,930737338	6,321928095	6,375039431	6,169925001
C7orf31	4,95419631	5,044394119	5	4,857980995	4,247927513	3,807354922
C7orf33	0	0	0	0	0	0
C7orf43	4,169925001	4,459431619	3,321928095	4,087462841	3	0
C7orf50	6,539158811	6,584962501	6,614709844	6,820178962	7,209453366	7,247927513
C7orf57	0	0	0	0	0	0
C7orf61	1,584962501	0	1	1	3	3,169925001
C7orf65	0	0	0	0	0	0
C7orf66	0	0	0	0	0	0
C7orf69	0	0	0	0	0	0

C7orf71	0	0	0	0	0	0
C8A	0	1	0	0	1,584962501	0
C8B	0	0	0	0	0	0
C8G	0	0	0	3,807354922	3	3,169925001
C8orf31	0	2,321928095	0	0	0	0
C8orf33	6,044394119	5,857980995	5,95419631	6,266786541	6,942514505	7,169925001
C8orf34	0	0	1	0	1,584962501	2
C8orf37	3	4	1,584962501	2,807354922	4,247927513	4,321928095
C8orf44	4,247927513	5,169925001	5	6,189824559	5,392317423	6,569855608
C8orf48	0	0	0	0	0	0
C8orf58	3	2,584962501	3	1	3,321928095	0
C8orf59	7,636624621	7,584962501	7,912889336	8,14974712	7,965784285	8,144658243
C8orf74	0	0	0	0	0	0
C8orf76	6,189824559	6,303780748	5,906890596	6,266786541	5,727920455	5,95419631
C8orf82	4,95419631	4,700439718	4,857980995	3,321928095	3	2
C8orf86	0	0	0	0	0	0
C8orf87	0	0	0	0	0	0
C9	0	1	0	1	3	3,807354922
C9orf106	0	0	0	0	0	0
C9orf116	0	0	1	0	0	0
C9orf129	0	0	0	0	0	0
C9orf131	0	0	0	0	0	0
C9orf135	0	0	0	0	0	0
C9orf139	3,321928095	3	3,584962501	2,807354922	3,321928095	0
C9orf152	0	0	0	0	0	0
C9orf153	3	2,584962501	0	0	1,584962501	3,807354922
C9orf16	3,700439718	4,169925001	4	4,700439718	3,321928095	3,169925001
C9orf163	0	0	0	0	0	0
C9orf170	0	0	0	0	0	0
C9orf24	0	0	0	0	0	0
C9orf3	1	3	3,169925001	1	1,584962501	0
C9orf40	4,392317423	5,169925001	4,700439718	5,129283017	4,64385619	3,807354922
C9orf43	0	0	2	0	1,584962501	0
C9orf50	0	0	0	0	0	2
C9orf57	0	0	0	0	0	0
C9orf64	6,768184325	6,584962501	6,426264755	5,357552005	5,857980995	5,357552005
C9orf66	0	2,321928095	2	0	0	2
C9orf72	7,321928095	7,321928095	7,257387843	6,06608919	6,129283017	5,832890014
C9orf78	8,434628228	8,8008999	8,353146825	8,6794801	9,025139562	8,77807713
C9orf84	1	0	0	0	0	3,169925001
C9orf85	5,584962501	5,044394119	5,426264755	6	6,129283017	6,247927513
CA1	1	1	0	1	0	2
CA10	1	0	0	0	1,584962501	3,169925001
CA11	4	4,087462841	4,906890596	6,375039431	6,584962501	6,491853096
CA12	0	0	1,584962501	1	1,584962501	3,169925001
CA13	2,807354922	3,321928095	3,700439718	3,321928095	3	4,321928095
CA14	0	0	0	0	0	0
CA2	6,459431619	6,209453366	6,426264755	5	5,554588852	4,95419631
CA3	0	0	0	1	0	0
CA4	0	0	0	0	0	0
CA5A	1	0	1	0	3	2
CA5B	6,807354922	6,442943496	6,475733431	6,62935662	6,942514505	5,832890014
CA5BP1	0	0	0	0	0	0
CA6	1	1	2,584962501	2,807354922	0	3,807354922
CA7	0	0	0	0	0	0
CA8	4,392317423	3,807354922	4,087462841	2,321928095	0	3,169925001
CA9	0	0	0	0	0	0
CAB39	8,596189756	8,614709844	8,413627929	8,86727874	8,784634846	9,095397023

CAB39L	4,64385619	4,392317423	4,169925001	4,523561956	4,807354922	3,807354922
CABIN1	6,882643049	6,942514505	6,832890014	7,169925001	6,918863237	7,129283017
CABLES1	2,807354922	1	1,584962501	2,321928095	2,321928095	2
CABLES2	4,523561956	4,64385619	3,906890596	2,321928095	1,584962501	2
CABP1	0	0	0	0	0	2
CABP2	0	0	0	0	0	0
CABP4	2,807354922	1,584962501	2,584962501	6,768184325	5,727920455	6,569855608
CABP5	0	0	0	0	2,321928095	0
CABP7	0	0	1	0	0	0
CABS1	0	0	0	0	0	0
CABYR	1	0	1	4,321928095	0	2
CACHD1	0	0	0	0	0	0
CACNA1A	4,321928095	4,087462841	4,523561956	5,754887502	5,781359714	6,700439718
CACNA1B	0	0	0	4,087462841	0	3,807354922
CACNA1C	0	0	3	3,321928095	4,459431619	3,807354922
CACNA1D	0	1	2	1	1,584962501	0
CACNA1E	0	1	0	3,321928095	3	5,357552005
CACNA1F	0	0	0	0	1,584962501	0
CACNA1G	0	1	0	2,807354922	0	3,807354922
CACNA1H	0	1	1,584962501	0	0	0
CACNA1I	4,247927513	3,906890596	4,523561956	5	4	3,807354922
CACNA1S	0	0	0	0	0	0
CACNA2D1	2,584962501	3,906890596	3,906890596	5,614709844	5,554588852	6,754887502
CACNA2D2	2,321928095	2,807354922	4	2,807354922	4,247927513	0
CACNA2D3	0	1	0	0	0	0
CACNA2D4	5	5,247927513	5,044394119	6,22881869	5,857980995	6,409390936
CACNB1	3,459431619	3,584962501	4,087462841	0	3,321928095	0
CACNB2	1	0	0	2,321928095	0	2
CACNB3	2,321928095	0	1	1	0	0
CACNB4	4,523561956	4,087462841	3,584962501	6,321928095	6,375039431	6,930737338
CACNG1	0	0	0	0	0	0
CACNG2	0	1	0	2,321928095	3	0
CACNG3	0	0	0	0	0	0
CACNG4	0	0	0	0	0	0
CACNG5	0	0	0	0	0	0
CACNG6	1,584962501	3	3	2,807354922	0	0
CACNG7	0	0	0	0	0	0
CACNG8	1	2,321928095	2,807354922	4,087462841	3,321928095	4,64385619
CACYBP	8,417852515	8,335390355	8,379378367	8,164906927	8,139551352	8,06608919
CAD	4,754887502	5	4	4,857980995	4,95419631	5,95419631
CADM1	7,169925001	6,781359714	6,820178962	7,781359714	8,055282436	7,918863237
CADM2	3,459431619	3,906890596	3,906890596	5,129283017	3	5,832890014
CADM3	0	0	0	0	0	0
CADM4	1,584962501	0	1,584962501	0	2,321928095	0
CADPS	1	1	2,584962501	4,857980995	4,807354922	5,169925001
CADPS2	1	0	0	0	1,584962501	0
CAGE1	0	0	0	0	3	4,64385619
CAHM	4,392317423	4,321928095	2	5,357552005	4,807354922	6,06608919
CALB1	0	0	0	0	0	0
CALB2	0	0	0	0	0	0
CALCA	0	0	0	0	0	0
CALCB	1	0	0	4,321928095	0	5,357552005
CALCOCO1	6,044394119	6	6,247927513	6,930737338	6,768184325	6,754887502
CALCOCO2	8,997179481	9,060695932	8,682994584	8,159871337	8,257387843	7,787902559
CALCR	2,321928095	2,584962501	3	5,882643049	5,727920455	6,06608919
CALCRL	2,584962501	1	1	0	2,321928095	2
CALD1	3,807354922	3,906890596	3,169925001	5,882643049	5,977279923	6,569855608
CALHM1	0	0	0	0	0	0

CALHM2	4,95419631	4,169925001	4,247927513	1	4,247927513	0
CALHM3	0	0	0	0	0	0
CALM1	11,12412131	11,02097994	10,98441846	10,20823436	10,4419067	9,930737338
CALM2	10,87036472	10,81618368	10,53430288	9,405141463	9,581200582	9,355351096
CALM3	9,400879436	9,74819285	9,46760555	9,385862401	9,50779464	9,306061689
CALML3	0	0	0	0	0	0
CALML4	0	1	0	0	0	0
CALML5	0	0	0	0	0	0
CALML6	0	0	0	0	0	0
CALN1	0	1	0	0	1,584962501	0
CALR	9,968666793	9,985841937	10,06204614	7,64385619	7,693486957	7,098032083
CALR3	0	0	0	0	0	0
CALU	7,761551232	7,832890014	7,330916878	5,832890014	6,459431619	6,247927513
CALY	0	0	0	0	1,584962501	0
CAMK1	5,906890596	5,392317423	6,189824559	0	0	0
CAMK1D	8,375039431	8,238404739	8,14974712	8,044394119	8,044394119	7,672425342
CAMK1G	0	0	0	0	0	0
CAMK2A	0	0	0	1	0	0
CAMK2B	0	0	0	0	1,584962501	2
CAMK2D	7,46760555	7,531381461	7,592457037	8,233619677	8,092757141	8,257387843
CAMK2G	6,022367813	5,807354922	6,189824559	5,930737338	5,977279923	6,247927513
CAMK2N1	5,977279923	6	6	5,614709844	6,321928095	5,554588852
CAMK2N2	0	0	0	0	0	0
CAMK4	8,731319031	8,531381461	8,62935662	9,330916878	9,154818109	8,991521846
CAMKK1	2,807354922	3,584962501	2,584962501	3,321928095	2,321928095	3,807354922
CAMKK2	5,807354922	5,64385619	6,087462841	2,807354922	4,807354922	3,169925001
CAMKMT	3,906890596	3,584962501	4	5,357552005	5,087462841	5,554588852
CAMKV	0	0	0	0	0	0
CAMLG	8,873444113	8,942514505	8,675957033	8,87958325	9,13442632	8,622051819
CAMP	1	1,584962501	1,584962501	0	0	0
CAMSAP1	6,426264755	6,266786541	6,569855608	5,882643049	6,285402219	6,247927513
CAMSAP2	7	7	7,108524457	6,189824559	5,285402219	5,700439718
CAMSAP3	0	0	0	0	0	0
CAMTA1	7,108524457	7	6,906890596	7,442943496	7,06608919	7,515699838
CAMTA2	6,022367813	6,266786541	6,303780748	4,321928095	5,285402219	4,64385619
CAND1	8,214319121	8,312882955	8,400879436	8,741466986	8,761551232	8,77807713
CAND2	0	1	2	1	0	0
CANT1	6,06608919	6,50779464	6,129283017	6	6,614709844	6,169925001
CANX	10,4767462	10,48381578	10,42836017	9,897845456	9,95419631	10,04302728
CAP1	9,914385132	9,813781191	9,6794801	9,290018847	9,370687407	9,209453366
CAP2	1	0	0	1	1,584962501	0
CAPG	7,851749041	8,108524457	8,098032083	3,807354922	3,700439718	0
CAPN1	6,906890596	7,417852515	6,906890596	6,554588852	6,882643049	5,832890014
CAPN10	4,392317423	4,169925001	5,357552005	3,321928095	5,64385619	2
CAPN11	0	0	0	0	0	0
CAPN12	4,523561956	4,392317423	4,584962501	5	4,459431619	2
CAPN13	0	0	0	0	0	0
CAPN14	0	0	0	1	0	0
CAPN2	7,303780748	7,459431619	7,46760555	6,845490051	6,700439718	6,409390936
CAPN3	0	0	0	0	0	0
CAPN5	1	0	1,584962501	0	0	0
CAPN6	0	0	0	0	0	0
CAPN7	8,330916878	8,169925001	8,199672345	8,554588852	8,14974712	8,675957033
CAPN8	0	0	0	0	0	2
CAPN9	0	0	0	0	0	0
CAPNS1	7,169925001	7,54689446	7,400879436	6,700439718	7,044394119	6,569855608
CAPNS2	0	0	0	0	0	0
CAPRIN1	7,787902559	8,033423002	7,930737338	7,930737338	7,924812504	8,087462841

CAPRIN2	6,321928095	6,741466986	6,754887502	6,741466986	6,584962501	5,95419631
CAPS	3,584962501	2,584962501	3,321928095	1	2,321928095	0
CAPS2	3,906890596	4,523561956	2,807354922	5,247927513	5,087462841	5,832890014
CAPSL	0	0	0	0	0	0
CAPZA1	10,00281502	9,912889336	9,911391988	9,603626345	9,59058705	9,642051693
CAPZA2	8,807354922	8,930737338	8,562242424	8,103287808	8,139551352	8,204571144
CAPZA3	0	0	0	0	0	0
CAPZB	9,583082768	9,577428828	9,609178738	9,465566405	9,424166289	9,426264755
CARD10	0	0	0	0	0	0
CARD11	6,14974712	6,22881869	6,754887502	6,700439718	6,375039431	6,06608919
CARD14	0	0	0	0	1,584962501	2
CARD16	6,930737338	7,21916852	7,247927513	6	6,321928095	4,95419631
CARD17	1	0	0	0	0	0
CARD18	0	0	0	0	0	0
CARD6	5,285402219	5,357552005	5,392317423	0	3,321928095	0
CARD8	8,826548487	8,784634846	8,8008999	8,936637939	8,700439718	8,77807713
CARD9	3,807354922	3,700439718	3,584962501	0	3	0
CARHSP1	5,392317423	5,087462841	5,426264755	4,700439718	5,285402219	5,554588852
CARM1	6	6,442943496	6,658211483	6,266786541	6,247927513	6,491853096
CARNS1	1	0	0	0	0	0
CARS	7,599912842	7,851749041	8	8,224001674	8,321928095	8,238404739
CARS2	5,977279923	5,727920455	5,523561956	6,129283017	5,64385619	5,95419631
CARTPT	0	0	0	0	0	0
CASC1	1	0	0	5,357552005	3,321928095	6,06608919
CASC2	0	1	1	0	1,584962501	0
CASC3	8,243173983	8,233619677	8,379378367	8,164906927	8,299208018	7,942514505
CASC4	7,321928095	7,475733431	7,312882955	7,614709844	7,434628228	7,348728154
CASD1	6,977279923	6,845490051	6,942514505	7,475733431	7,22881869	7,539158811
CASK	6,95419631	6,539158811	7,076815597	7,781359714	7,658211483	7,761551232
CASKIN1	0	0	0	0	0	0
CASKIN2	0	0	0	0	0	0
CASP1	8,903881846	9,116343961	8,813781191	7,189824559	7,50779464	6,882643049
CASP10	5,807354922	5,554588852	5,857980995	5,832890014	6,087462841	6,700439718
CASP12	0	0	0	0	0	0
CASP14	0	0	0	0	0	0
CASP2	6,845490051	6,965784285	6,882643049	7,247927513	7,312882955	7,247927513
CASP3	6,189824559	6,339850003	6,392317423	6,266786541	6,409390936	6,06608919
CASP4	8,257387843	8,209453366	8,426264755	8,214319121	8,055282436	7,851749041
CASP5	1	0	3,169925001	0	0	3,807354922
CASP6	5,614709844	6,129283017	5,459431619	6,06608919	6,129283017	6,321928095
CASP7	7,523561956	7,515699838	7,118941073	6,930737338	6,882643049	6,569855608
CASP8	9,266786541	9,197216693	9,11113567	9,154818109	9,245552706	9,348728154
CASP8AP2	8,413627929	8,400879436	8,447083226	8,751544059	8,761551232	8,87958325
CASP9	5,209453366	5,554588852	5,044394119	2,321928095	3,321928095	0
CASQ1	0	0	0	0	0	0
CASQ2	0	0	0	0	0	0
CASR	0	1	2	2,321928095	2,321928095	0
CASS4	5	4,087462841	4,754887502	5,832890014	5,64385619	5,700439718
CAST	10,24555271	10,09275714	10,11113567	9,30833903	9,424166289	9,154818109
CASZ1	4,857980995	5,129283017	4,906890596	5,523561956	5,285402219	6,06608919
CAT	8,28077077	8,092757141	7,845490051	6,845490051	7,108524457	6,247927513
CATSPER1	2,321928095	1	2,584962501	0	0	0
CATSPER2	1,584962501	1	2,807354922	2,321928095	4	3,169925001
CATSPER2P1	1,584962501	0	1,584962501	2,807354922	1,584962501	4,95419631
CATSPER3	0	0	0	1	1,584962501	0
CATSPER4	0	0	0	0	0	0
CATSPERB	1,584962501	3,169925001	2,807354922	5	4,807354922	5,832890014
CATSPERD	0	0	0	0	1,584962501	4,95419631

CATSPERG	3,584962501	2,321928095	3,321928095	3,807354922	1,584962501	3,169925001
CAV1	2,321928095	2,584962501	3,584962501	4,321928095	4,247927513	4,321928095
CAV2	0	0	0	0	0	0
CAV3	0	0	0	0	0	0
CBFA2T2	6,794415866	6,918863237	6,768184325	6,930737338	7,087462841	6,965784285
CBFA2T3	5,321928095	5,129283017	5,129283017	5	5,554588852	4,95419631
CBFB	8,14974712	8,209453366	8,082149041	7,876516947	7,900866808	7,832890014
CBL	8,499845887	8,64385619	8,554588852	8,252665432	8,339850003	8,592457037
CBLB	7,209453366	7,339850003	7,409390936	8,224001674	7,912889336	8,290018847
CBLC	0	0	0	0	0	0
CBLL1	7,409390936	7,108524457	7,055282436	7,971543554	7,693486957	7,813781191
CBLN1	0	0	0	0	0	0
CBLN2	0	1	0	0	0	0
CBLN3	2,807354922	4,321928095	4,459431619	5,700439718	6,044394119	6,491853096
CBLN4	0	0	0	0	0	0
CBR1	6,768184325	6,672425342	6,554588852	5	5,285402219	4,95419631
CBR3	4	4	3,700439718	3,321928095	4	0
CBR3-AS1	1,584962501	2,321928095	0	1	3,321928095	2
CBR4	7,108524457	6,882643049	6,965784285	7,426264755	7,417852515	7,672425342
CBS	0	0	0	0	0	0
CBWD1	4,700439718	4,857980995	4,95419631	3,807354922	3,700439718	4,321928095
CBWD2	6,129283017	5,426264755	5,321928095	5,832890014	5,169925001	6,06608919
CBWD3	0	0	0	0	0	0
CBWD5	2,321928095	3,584962501	3,807354922	3,321928095	2,321928095	3,169925001
CBWD6	0	1	0	0	0	0
CBX1	7,636624621	7,672425342	7,383704292	7,768184325	7,768184325	7,491853096
CBX2	0	0	0	0	0	0
CBX3	9,818582177	9,702172685	9,675957033	9,523561956	9,503825738	9,413627929
CBX3P2	3,321928095	3,584962501	3	4,523561956	4,459431619	4,95419631
CBX4	8,257387843	8,539158811	8,475733431	8,243173983	8,434628228	8,108524457
CBX5	8,294620749	8,388017285	8,276124405	9,049848549	9,016808288	8,95419631
CBX6	9,321928095	9,403012024	9,353146825	8,948367232	9,283088353	8,724513853
CBX7	8,426264755	8,622051819	8,499845887	8,994353437	9,025139562	8,816983623
CBX8	2,807354922	2,321928095	1,584962501	1	0	0
CBY1	3,807354922	3	3,906890596	4,700439718	4,64385619	0
CBY3	0	0	0	0	0	0
CC2D1A	4,169925001	4,087462841	3,807354922	2,321928095	3	0
CC2D1B	5,523561956	5,930737338	6,247927513	5,459431619	5,554588852	4,321928095
CC2D2A	0	0	1,584962501	0	0	2
CC2D2B	1	2,321928095	2,584962501	5,129283017	4,459431619	6,569855608
CCAR1	10,14082977	10	10,13314221	10,55554777	10,39767463	10,57837269
CCBE1	0	0	0	3,807354922	1,584962501	3,169925001
CCDC102A	3	2,807354922	3,700439718	2,321928095	4,64385619	2
CCDC102B	3,807354922	3,906890596	4,087462841	5,357552005	4,459431619	5,357552005
CCDC103	0	0	0	0	0	0
CCDC105	0	0	0	0	0	0
CCDC106	0	1	3	2,807354922	0	2
CCDC107	5,807354922	5,584962501	6,22881869	5	5,727920455	5,357552005
CCDC110	1	1,584962501	1	0	0	2
CCDC112	7,721099189	7,459431619	7,651051691	4,857980995	5,554588852	5,700439718
CCDC113	0	0	0	0	0	0
CCDC114	0	0	0	0	0	0
CCDC115	8,344295908	8,28077077	8,071462363	8,164906927	8,353146825	7,977279923
CCDC116	0	0	0	0	0	0
CCDC117	7,312882955	7,339850003	7,033423002	7,209453366	7,285402219	7,209453366
CCDC12	6,906890596	6,942514505	7,033423002	7,022367813	7,266786541	7,247927513
CCDC120	3,584962501	3,321928095	3,906890596	0	0	2
CCDC121	2,321928095	0	1,584962501	0	0	2

CCDC122	4,459431619	4,906890596	4	6,266786541	5,930737338	4,95419631
CCDC124	4	3,321928095	4,087462841	2,321928095	3,700439718	2
CCDC125	4,459431619	4,321928095	5,044394119	5,832890014	5,285402219	5,554588852
CCDC126	5,882643049	5,781359714	5,754887502	5	4,64385619	4,64385619
CCDC127	5,832890014	5,857980995	6,189824559	6,189824559	7	6,169925001
CCDC13	0	0	0	1	0	0
CCDC130	6,845490051	7,011227255	7,21916852	7,599912842	7,400879436	6,882643049
CCDC134	2,321928095	0	1	0	1,584962501	0
CCDC136	4	4	4,459431619	3,321928095	3	2
CCDC137	5,614709844	5,807354922	5,930737338	6,321928095	6,044394119	5,95419631
CCDC138	4,700439718	4,64385619	4,584962501	4,087462841	4,459431619	4,95419631
CCDC14	6,988684687	6,918863237	6,942514505	7,247927513	6,700439718	6,930737338
CCDC140	0	0	0	0	1,584962501	0
CCDC141	4	4,169925001	5,247927513	6	4,247927513	5,554588852
CCDC142	2,321928095	1,584962501	3	5,357552005	5,087462841	4,64385619
CCDC144A	1,584962501	0	0	0	0	4,321928095
CCDC144B	4,247927513	4	4,857980995	4,523561956	3,321928095	2
CCDC144NL	0	0	0	0	0	0
CCDC146	6,426264755	6,321928095	6,584962501	7,189824559	6,882643049	7,409390936
CCDC148	2,321928095	0	0	2,321928095	0	0
CCDC149	4,169925001	4,754887502	4	0	0	0
CCDC15	5	4,584962501	3,906890596	6,409390936	6,044394119	7,129283017
CCDC150	0	2,321928095	2	3,807354922	1,584962501	3,807354922
CCDC151	0	0	0	0	0	0
CCDC152	6,266786541	5,321928095	5,754887502	7,169925001	6,832890014	7,276124405
CCDC153	0	0	0	0	0	0
CCDC154	0	1	1,584962501	2,321928095	1,584962501	0
CCDC155	0	0	0	0	0	0
CCDC157	0	0	0	0	0	0
CCDC158	1	0	0	0	0	0
CCDC159	3	3,700439718	3,584962501	0	0	3,807354922
CCDC160	0	0	0	0	0	0
CCDC162P	1	1	0	0	0	0
CCDC166	0	0	0	0	0	0
CCDC167	4,857980995	4,754887502	4,247927513	2,807354922	4,459431619	0
CCDC168	1,584962501	3	3,321928095	4,321928095	1,584962501	4,321928095
CCDC169	1	1	0	0	0	0
CCDC169-SOHLH2	0	0	0	0	0	0
CCDC17	0	0	0	0	1,584962501	2
CCDC18	6,965784285	6,672425342	6,87036472	7,426264755	7,434628228	7,851749041
CCDC22	5,044394119	5,247927513	5,044394119	3,321928095	4,64385619	4,321928095
CCDC24	0	0	0	0	0	0
CCDC25	8,044394119	7,900866808	7,876516947	8,330916878	8,321928095	8,238404739
CCDC27	0	0	0	0	0	0
CCDC28A	7,768184325	7,781359714	7,721099189	7,339850003	7,721099189	6,754887502
CCDC28B	4,321928095	4,392317423	4,584962501	5,357552005	3,321928095	4,64385619
CCDC3	0	0	0	0	0	0
CCDC30	4,392317423	3,169925001	4,523561956	6,409390936	5,392317423	7,247927513
CCDC33	0	0	0	0	0	0
CCDC34	5,285402219	5,426264755	5,247927513	5,357552005	4,459431619	3,169925001
CCDC36	0	0	0	0	0	0
CCDC38	0	0	0	0	0	0
CCDC39	0	0	0	0	0	0
CCDC40	0	0	1	0	0	0
CCDC42	0	0	0	0	0	0
CCDC43	7,055282436	6,832890014	6,857980995	6,554588852	6,700439718	6,569855608
CCDC47	8,113742166	8,033423002	7,948367232	6,375039431	7,139551352	6,247927513
CCDC50	7,73470962	7,965784285	7,832890014	7,942514505	8,055282436	8,049848549

CCDC51	4,321928095	4,584962501	3,321928095	5,129283017	5,087462841	5,700439718
CCDC54	0	0	0	0	0	0
CCDC57	2,807354922	4,321928095	4,584962501	4,857980995	4,95419631	3,807354922
CCDC58	5,169925001	4,321928095	4,857980995	5,754887502	4,95419631	6,247927513
CCDC59	8,447083226	8,409390936	8,339850003	8,422064766	8,682994584	8,686500527
CCDC6	7,434628228	7,312882955	6,988684687	7,426264755	7,044394119	7,276124405
CCDC60	0	0	0	0	0	0
CCDC61	2,584962501	3,321928095	2,807354922	0	0	0
CCDC62	2,321928095	1,584962501	1	5,614709844	4,459431619	6,820178962
CCDC63	0	0	0	0	0	2
CCDC65	3,321928095	3	3,321928095	2,807354922	0	2
CCDC66	7,960001932	7,900866808	8,189824559	8,614709844	8,558420713	8,647458426
CCDC68	1	0	2,584962501	1	0	0
CCDC69	6,658211483	6,539158811	6,569855608	6,95419631	6,882643049	6,754887502
CCDC7	7,312882955	7,06608919	7,303780748	8,6794801	8,45532722	9,019590728
CCDC70	0	0	0	0	0	0
CCDC71	4,906890596	5,169925001	5,584962501	3,321928095	3,700439718	2
CCDC71L	6,857980995	6,614709844	6,754887502	6,741466986	5,64385619	5,700439718
CCDC73	2,807354922	2,584962501	2	1	1,584962501	3,807354922
CCDC74A	0	0	0	0	0	3,169925001
CCDC74B	0	0	0	0	0	0
CCDC77	5,247927513	5,285402219	4,64385619	3,807354922	4,247927513	5,169925001
CCDC78	0	0	0	0	0	0
CCDC8	0	0	0	0	0	0
CCDC80	0	0	1	1	0	2
CCDC81	1	0	3,169925001	5,129283017	4	4,64385619
CCDC82	7,894817763	7,475733431	7,754887502	7,942514505	7,434628228	7,055282436
CCDC83	0	0	0	0	0	0
CCDC84	7,348728154	7,483815777	7,741466986	7,392317423	7,266786541	7,994353437
CCDC85A	0	0	0	0	0	0
CCDC85B	2,807354922	4,169925001	4,459431619	2,321928095	3	0
CCDC85C	3,700439718	2,584962501	3,169925001	2,321928095	4,64385619	3,807354922
CCDC86	3,906890596	3,807354922	3,700439718	3,807354922	3,321928095	2
CCDC87	0	0	0	0	0	0
CCDC88A	10,10328781	9,975847968	9,665335917	7,982993575	7,74819285	8,330916878
CCDC88B	4,906890596	5,807354922	5,321928095	5,832890014	6,189824559	6,247927513
CCDC88C	9,025139562	8,857980995	9,055282436	9,594324604	9,620219826	9,571752644
CCDC89	0	0	0	0	1,584962501	0
CCDC9	3,906890596	2,807354922	2,584962501	0	2,321928095	0
CCDC90B	7,491853096	7,392317423	6,906890596	7,554588852	7,614709844	7,375039431
CCDC91	8,672425342	8,491853096	8,54689446	9,221587121	9,192292814	9,339850003
CCDC92	6,321928095	6	6,087462841	5,700439718	6,247927513	5,700439718
CCDC93	7,584962501	7,303780748	7,434628228	7,894817763	7,64385619	7,761551232
CCDC96	1	2,807354922	0	3,321928095	3	4,64385619
CCDC97	5,781359714	5,977279923	6,321928095	3,807354922	5,392317423	5,169925001
CCHCR1	2,584962501	2,807354922	2,807354922	0	1,584962501	2
CCIN	0	0	0	0	0	0
CCK	0	0	0	0	0	0
CCKAR	0	0	0	0	0	0
CCKBR	0	0	0	0	0	0
CCL1	0	0	0	0	0	0
CCL11	0	0	0	0	0	0
CCL13	2,321928095	3	2,807354922	0	0	0
CCL14	0	0	0	0	0	0
CCL15	0	0	0	0	0	0
CCL16	0	1	1	4,087462841	3	4,321928095
CCL17	1	0	0	0	0	0
CCL18	0	0	0	0	1,584962501	0

CCL19	0	0	2	2,321928095	1,584962501	0
CCL2	8,566054038	9,019590728	8,781359714	5,247927513	7,022367813	6,700439718
CCL20	4,584962501	4,857980995	4,584962501	6	6,459431619	6,06608919
CCL21	0	0	0	0	0	0
CCL22	4,906890596	5,169925001	5,672425342	3,321928095	5,554588852	4,64385619
CCL23	0	0	0	0	0	0
CCL24	0	0	0	0	0	0
CCL25	0	0	0	0	0	0
CCL26	0	0	0	0	0	0
CCL27	0	0	0	0	0	0
CCL28	4,584962501	4,392317423	4,392317423	4,523561956	4	3,807354922
CCL3	7,942514505	8,169925001	7,864186145	7,994353437	8,77148947	7,64385619
CCL3L1	5,614709844	4,700439718	5,727920455	5,614709844	6,658211483	4,95419631
CCL4	8,113742166	8,199672345	8,071462363	8,174925683	8,592457037	7,942514505
CCL4L2	6,807354922	6,599912842	6,247927513	7,592457037	7,554588852	7,011227255
CCL5	9,920352855	10,07547915	10,00140819	10,50084188	10,62844554	10,29232163
CCL7	3,459431619	3,807354922	4,169925001	2,807354922	5,554588852	2
CCL8	5,247927513	5,781359714	6,189824559	0	0	0
CCM2	6,700439718	6,832890014	7,033423002	7,658211483	7,599912842	7,348728154
CCNA1	3	1,584962501	3,169925001	0	0	0
CCNA2	3,700439718	3	2,584962501	4,523561956	4,807354922	4,321928095
CCNB1	3	2,321928095	1,584962501	1	3	2
CCNB1IP1	5	4,523561956	3,169925001	5	4,95419631	4,321928095
CCNB2	0	0	0	2,321928095	1,584962501	3,169925001
CCNB3	1	0	2,807354922	1	2,321928095	3,807354922
CCNC	7,523561956	7,569855608	7,539158811	8,204571144	8,194756854	8,189824559
CCND1	1	1,584962501	2	0	1,584962501	3,169925001
CCND2	9,417852515	9,342074668	9,324180547	8,918863237	9,06608919	8,807354922
CCND3	6,894817763	6,857980995	7,06608919	7,813781191	7,807354922	7,375039431
CCNDBP1	7,622051819	7,607330314	7,46760555	7,491853096	7,599912842	7,209453366
CCNE1	2,584962501	3	3,321928095	2,807354922	1,584962501	4,64385619
CCNE2	2,321928095	1,584962501	2,584962501	1	4	4,321928095
CCNF	3,321928095	4,087462841	2,807354922	3,321928095	0	0
CCNG1	7,383704292	7,285402219	7,06608919	8,071462363	7,965784285	8,016808288
CCNG2	7,73470962	7,247927513	7,087462841	7,098032083	7,584962501	7,409390936
CCNH	5,781359714	5,64385619	5,807354922	6,22881869	5,857980995	7,055282436
CCNI	10,46250227	10,53430288	10,38694025	9,681238412	9,968666793	8,857980995
CCNI2	0	0	0	0	0	0
CCNJ	3,584962501	4,392317423	4,087462841	4,087462841	4,459431619	0
CCNJL	1,584962501	1	1,584962501	2,321928095	3,321928095	3,169925001
CCNK	7,700439718	7,451211112	7,665335917	8,011227255	7,942514505	8,290018847
CCNL1	10,75988818	10,59991284	10,74062404	10,33315535	10,04028972	10,33091688
CCNL2	8,751544059	8,689997971	8,915879379	8,495855027	8,614709844	8,654636029
CCNO	0	0	0	0	0	0
CCNT1	7,807354922	7,876516947	7,876516947	9,139551352	8,882643049	9,136991112
CCNT2	7,820178962	7,54689446	7,87036472	8,654636029	8,330916878	8,603626345
CCNY	8,330916878	8,14974712	8,159871337	8,159871337	8,139551352	8,108524457
CCNYL1	7,21916852	7,199672345	7,108524457	5,614709844	5,554588852	4,95419631
CCP110	7,022367813	6,754887502	6,714245518	7,672425342	7,400879436	7,491853096
CCPG1	7,276124405	6,857980995	6,882643049	5,129283017	5,285402219	3,169925001
CCR1	10,01541505	10,11634396	10,06204614	6,06608919	7,17990909	6,820178962
CCR10	0	0	0	1	0	4,321928095
CCR2	7,285402219	7,199672345	6,857980995	1	1,584962501	3,169925001
CCR3	4,906890596	4,700439718	5,044394119	3,321928095	3	3,169925001
CCR4	4,459431619	3,584962501	3,700439718	2,807354922	5,087462841	0
CCR5	7,845490051	7,781359714	7,651051691	6,189824559	6,321928095	5,700439718
CCR6	0	0	0	0	0	0
CCR7	7,129283017	7,409390936	7,569855608	8,87958325	8,845490051	9,348728154

CCR8	0	0	0	0	0	0
CCR9	0	1	1	0	0	0
CCRL2	5,285402219	4,857980995	5,044394119	2,321928095	4	0
CCS	3,700439718	4,523561956	4,700439718	4,523561956	5,459431619	3,807354922
CCT2	8,829722735	8,741466986	8,73809226	9,20701432	9,214319121	9,095397023
CCT3	7,523561956	7,807354922	7,813781191	7,768184325	8,055282436	8,087462841
CCT4	7,988684687	7,918863237	7,721099189	8,285402219	8,252665432	8,54303182
CCT5	8,562242424	8,64385619	8,768184325	8,252665432	8,194756854	7,994353437
CCT6A	8,965784285	8,888743249	8,836050355	9,426264755	9,283088353	9,451211112
CCT6B	3,459431619	1	2	5,523561956	5,087462841	6,06608919
CCT6P1	2,807354922	2,807354922	1	2,321928095	0	0
CCT6P3	1	0	1	0	1,584962501	0
CCT7	7,257387843	7,539158811	7,577428828	7,554588852	7,554588852	7,312882955
CCT8	8,625708843	8,491853096	8,169925001	8,885696373	8,794415866	8,857980995
CCT8L2	0	0	0	0	0	0
CCZ1	7,499845887	7,459431619	7,577428828	7,321928095	7,417852515	7,348728154
CCZ1B	6,339850003	6,321928095	6,491853096	5,930737338	6,584962501	6,321928095
CD101	3,321928095	3,700439718	3,584962501	1	0	0
CD109	4,857980995	4,321928095	4,64385619	4,321928095	5,64385619	6,247927513
CD14	8,022367813	8,189824559	8,214319121	0	2,321928095	2
CD151	4,906890596	5,087462841	5,129283017	0	0	0
CD160	4,459431619	4,392317423	4,087462841	4,857980995	4,807354922	5,169925001
CD163	5,584962501	6,303780748	5,857980995	0	2,321928095	3,169925001
CD163L1	0	0	0	0	0	0
CD164	8,997179481	8,8008999	8,607330314	8,087462841	8,252665432	8,299208018
CD164L2	0	0	0	0	0	0
CD177	0	0	0	0	0	0
CD180	5,700439718	5,64385619	5,930737338	1	3,700439718	0
CD19	5,209453366	5,087462841	5,930737338	6,820178962	6,700439718	6,62935662
CD1A	1	0	1	0	0	0
CD1B	0	2,321928095	1	0	0	0
CD1C	3,584962501	3,906890596	3,321928095	0	0	0
CD1D	4,754887502	4,392317423	4,392317423	0	0	2
CD1E	2,321928095	3	3,321928095	0	0	0
CD2	9,612868497	9,569855608	9,668884984	10,27496047	10,32418055	10,31061278
CD200	4,321928095	4,087462841	4,169925001	5,459431619	5,285402219	6,06608919
CD200R1	5,584962501	5,169925001	4,906890596	5,614709844	5,392317423	6,06608919
CD200R1L	0	0	0	0	0	0
CD207	0	0	0	0	0	0
CD209	4,169925001	4,087462841	4,247927513	0	0	0
CD22	5,044394119	5,044394119	5	5,129283017	6,087462841	5,554588852
CD226	7,787902559	7,741466986	7,768184325	7,303780748	7,888743249	7,276124405
CD24	2,584962501	3,807354922	2,584962501	2,807354922	3,700439718	3,169925001
CD244	5,392317423	5,357552005	5,321928095	4,700439718	5,64385619	4,64385619
CD247	9,278449458	9,403012024	9,477758266	10,00982862	10,16113188	10,01122726
CD248	0	1,584962501	2	0	0	0
CD27	6,754887502	6,845490051	7,189824559	7,982993575	8,071462363	7,375039431
CD274	7,451211112	7,442943496	7,409390936	5,930737338	6,129283017	6,06608919
CD276	4,392317423	5,459431619	5,672425342	0	2,321928095	0
CD28	7,011227255	7,098032083	7,17990909	7,672425342	7,888743249	7,592457037
CD2AP	7,266786541	7,266786541	7,17990909	7,357552005	7,108524457	7,672425342
CD2BP2	6,475733431	6,357552005	6,247927513	6,794415866	6,918863237	6,569855608
CD300A	5,882643049	6,189824559	6,189824559	5,129283017	5,781359714	5,832890014
CD300C	4,523561956	4,169925001	4,087462841	0	0	0
CD300E	4,95419631	5,357552005	4,392317423	0	0	0
CD300LB	4,459431619	4,459431619	3,169925001	0	0	0
CD300LD	0	0	0	0	0	0
CD300LF	7,247927513	7,098032083	7,022367813	0	1,584962501	0

CD300LG	0	0	0	0	0	0
CD302	6,539158811	6,06608919	6,189824559	2,807354922	0	3,169925001
CD320	3	4	3,807354922	5,700439718	4,64385619	5,700439718
CD33	6,14974712	6,06608919	5,491853096	1	1,584962501	0
CD34	1	0	0	1	0	0
CD36	9,33315535	9,28771238	9,09011242	3,807354922	3,321928095	5,700439718
CD37	7,807354922	8	7,942514505	8,562242424	8,761551232	8,845490051
CD38	6,375039431	6,087462841	6,129283017	4,700439718	5,087462841	4,95419631
CD3D	7,257387843	7,754887502	7,50779464	8,204571144	8,413627929	7,942514505
CD3E	7,257387843	7,459431619	7,434628228	7,971543554	8,159871337	7,894817763
CD3EAP	4,321928095	4,169925001	4,459431619	4,321928095	2,321928095	0
CD3G	9,544964433	9,688250309	9,438791853	9,980139578	10,01820018	9,741466986
CD4	6,108524457	5,857980995	5,727920455	5,523561956	4,95419631	4,95419631
CD40	7,159871337	7,21916852	7,285402219	6,845490051	6,459431619	6,569855608
CD40LG	5,554588852	5	5	6,266786541	6,459431619	5,832890014
CD44	11,08613623	11,18177344	11,21249639	10,84627391	10,92407019	10,70043972
CD46	9,121533517	8,982993575	9,167418146	8,810571635	8,370687407	8,515699838
CD47	9,315149562	9,233619677	9,388017285	9,247927513	9,167418146	9,019590728
CD48	9,810571635	9,638435914	9,710806434	9,594324604	9,829722735	9,726218159
CD5	7,714245518	7,845490051	7,74819285	8,960001932	8,87958325	8,857980995
CD52	9,379378367	9,702172685	9,958552715	10,00982862	10,24079133	9,703903573
CD53	9,722807531	9,781359714	9,661778098	9,294620749	9,485829309	9,095397023
CD55	8,204571144	8,247927513	8,044394119	8,071462363	8,30833903	7,851749041
CD58	7,139551352	7,321928095	7,409390936	4,857980995	5,977279923	4,321928095
CD59	6,303780748	6,357552005	6,554588852	6,658211483	6,768184325	6,06608919
CD5L	0	0	0	0	0	0
CD6	7,033423002	7,199672345	7,312882955	8,459431619	8,573647187	8,366322214
CD63	11,53527538	11,52012755	11,40301202	8,348728154	8,985841937	8,189824559
CD68	7,46760555	7,960001932	8,422064766	2,321928095	1,584962501	0
CD69	8,28077077	8,033423002	8,108524457	7,409390936	7,864186145	7,672425342
CD7	4,700439718	5,321928095	5,523561956	6,700439718	6,965784285	6,321928095
CD70	0	1	2,584962501	0	0	0
CD72	2,807354922	4	3,807354922	4,087462841	3,321928095	2
CD74	11,52012755	11,69913863	11,74315139	9,943979914	10,16867212	9,970105891
CD79A	5,321928095	5,807354922	5,781359714	6,794415866	6,539158811	6,169925001
CD79B	5,426264755	5	5	5,614709844	5,554588852	5,554588852
CD80	2,321928095	2,807354922	2,807354922	0	0	0
CD81	8,271463028	8,321928095	8,383704292	7,994353437	7,864186145	7,622051819
CD82	5,247927513	5,781359714	6,169925001	7,426264755	7,554588852	6,882643049
CD83	8,290018847	8,290018847	8,118941073	8,011227255	8,299208018	7,851749041
CD84	8,754887502	8,791162889	8,906890596	7,357552005	7,807354922	6,930737338
CD86	8,257387843	8,519636253	8,238404739	5,459431619	5,930737338	5,832890014
CD8A	8,361943774	8,276124405	8,321928095	9,002815016	9,044394119	8,903881846
CD8B	5,64385619	5,672425342	4,523561956	6,189824559	6,807354922	5,357552005
CD9	9,182394353	9,381542951	8,724513853	5,700439718	6,285402219	6,169925001
CD93	4,95419631	5,087462841	4,392317423	1	3,321928095	0
CD96	8,049848549	8,118941073	8,326429487	8,303780748	8,353146825	8,108524457
CD99	7,665335917	7,686500527	7,330916878	7,64385619	7,794415866	7,622051819
CD99L2	5,044394119	5,584962501	5,044394119	5	4,95419631	5,169925001
CD99P1	0	2,807354922	2	0	1,584962501	0
CDA	3,321928095	3,700439718	3,584962501	0	0	0
CDADC1	6,06608919	5,426264755	5,930737338	5,247927513	5,64385619	3,807354922
CDAN1	3,906890596	2,321928095	3,700439718	1	1,584962501	3,169925001
CDC123	6,95419631	6,965784285	6,906890596	7,14974712	6,882643049	7,375039431
CDC14A	7,022367813	6,832890014	6,672425342	7,851749041	7,672425342	7,741466986
CDC14B	4,169925001	4,169925001	3,906890596	2,807354922	1,584962501	4,321928095
CDC16	6,64385619	6,714245518	6,95419631	6,95419631	7,06608919	6,882643049
CDC20	0	0	1	0	0	0

CDC20B	1	2,584962501	1,584962501	4,087462841	4,459431619	5,554588852
CDC23	6,700439718	6,442943496	6,108524457	5,930737338	6,965784285	6,169925001
CDC25A	1	2,321928095	1	2,321928095	0	4,64385619
CDC25B	7,700439718	7,665335917	7,73470962	7,22881869	7,159871337	6,169925001
CDC25C	0	0	0	0	0	3,169925001
CDC26	1,584962501	1,584962501	0	1	0	0
CDC27	7,483815777	7,442943496	7,276124405	7,741466986	7,672425342	7,813781191
CDC34	4,95419631	5,426264755	5,044394119	5,247927513	5,781359714	5,357552005
CDC37	8,139551352	8,290018847	8,353146825	8,060695932	8,434628228	8,238404739
CDC37L1	6,189824559	6,339850003	6,129283017	6,882643049	6,741466986	7,209453366
CDC40	8,413627929	8,204571144	8,082149041	8,233619677	8,30833903	8,204571144
CDC42	3,906890596	3,906890596	2,807354922	0	1,584962501	3,169925001
CDC42BPA	3,906890596	3	2	4,087462841	3,700439718	4,95419631
CDC42BPB	5,95419631	5,857980995	5,700439718	2,807354922	4,247927513	0
CDC42BPG	2,584962501	1,584962501	2,807354922	3,321928095	3,321928095	5,95419631
CDC42EP1	2,807354922	1,584962501	3,169925001	0	0	0
CDC42EP2	0	0	0	0	0	0
CDC42EP3	7,948367232	7,794415866	7,614709844	8,124121312	7,994353437	7,894817763
CDC42EP4	1	2,321928095	0	0	0	0
CDC42EP5	0	0	0	0	0	0
CDC42SE1	9,54689446	9,632995197	9,71596199	9,645658432	9,605479518	9,154818109
CDC42SE2	10,37068741	10,4314976	10,36959735	10,89254282	10,98441846	10,98441846
CDC45	0	0	0	0	0	0
CDC5L	8,459431619	8,082149041	8,353146825	8,033423002	8,184875343	8,238404739
CDC6	2,584962501	1	1	2,321928095	1,584962501	0
CDC7	4,700439718	3,584962501	3,700439718	4,523561956	3,700439718	4,321928095
CDC73	8,189824559	8,016808288	8,22881869	8,159871337	8,233619677	7,977279923
CDCA2	1,584962501	3	3,169925001	2,807354922	3,321928095	0
CDCA3	0	2,321928095	2	0	3,321928095	0
CDCA4	5,523561956	5,426264755	4,857980995	6,768184325	6,129283017	7,098032083
CDCA5	0	0	0	0	0	0
CDCA7	4,700439718	5	4,392317423	4,321928095	3,700439718	0
CDCA7L	5,285402219	5,426264755	4,523561956	5,700439718	5,857980995	4,321928095
CDCA8	3	4,169925001	3,321928095	2,321928095	3	0
CDCP1	3,584962501	2,584962501	2,807354922	0	0	0
CDCP2	0	0	0	0	0	0
CDH1	3,807354922	3,169925001	3,807354922	4,523561956	4,459431619	5,700439718
CDH10	0	1	0	0	0	0
CDH11	1	1	2,584962501	0	1,584962501	0
CDH12	1	0	0	0	2,321928095	0
CDH13	0	2,584962501	1	4,321928095	4,247927513	4,95419631
CDH15	0	0	0	0	1,584962501	0
CDH16	0	0	0	0	0	0
CDH17	0	0	0	1	0	0
CDH18	1	0	0	0	0	0
CDH19	3	3	3,807354922	4,857980995	4	5,832890014
CDH2	3,321928095	3,906890596	3,700439718	5,832890014	5,087462841	6,62935662
CDH20	0	0	0	0	0	0
CDH22	0	0	0	0	0	0
CDH23	2,584962501	2,807354922	1	2,321928095	0	0
CDH24	0	0	0	0	0	0
CDH26	1	1	1,584962501	0	0	0
CDH3	1	1	0	3,321928095	4,247927513	5,554588852
CDH4	0	0	1	3,807354922	2,321928095	4,64385619
CDH5	0	0	0	0	1,584962501	0
CDH6	1	1,584962501	0	3,321928095	0	4,321928095
CDH7	1	3,584962501	4,087462841	5,832890014	5,392317423	6,700439718
CDH8	1	0	1,584962501	1	0	4,321928095

CDH9	0	0	0	0	1,584962501	2
CDHR1	0	0	0	0	0	0
CDHR2	0	0	0	1	0	0
CDHR3	3,321928095	2,584962501	3	5	4	4,95419631
CDHR4	0	0	0	2,321928095	0	0
CDHR5	0	0	0	0	0	0
CDIPT	6,857980995	7,199672345	7,076815597	6,658211483	6,807354922	6,491853096
CDK1	2,321928095	2,807354922	1,584962501	5,930737338	3	5,357552005
CDK10	5,129283017	5,169925001	5,614709844	5,247927513	5,459431619	5,700439718
CDK11A	4,64385619	4,906890596	5	5,247927513	4,459431619	5,357552005
CDK11B	6,882643049	6,375039431	6,409390936	7,357552005	7,348728154	7,129283017
CDK12	8,339850003	8,214319121	8,45532722	8,164906927	8,139551352	8,491853096
CDK13	7,971543554	7,851749041	7,930737338	8,348728154	8,233619677	8,592457037
CDK14	6,022367813	5,882643049	5,491853096	5	4,64385619	6,169925001
CDK15	0	0	0	0	0	0
CDK16	4,523561956	5,285402219	5,584962501	5,614709844	5,781359714	4,64385619
CDK17	7,434628228	7,276124405	7,14974712	8,199672345	8,139551352	8,413627929
CDK18	0	0	0	0	0	0
CDK19	8,353146825	8,271463028	8,044394119	8,044394119	8,082149041	7,965784285
CDK2	6,930737338	7,098032083	6,768184325	6,741466986	7,044394119	7,46760555
CDK20	3,584962501	3,584962501	3	4,087462841	1,584962501	0
CDK2AP1	0	0	0	0	0	0
CDK2AP2	6,977279923	7,375039431	7,303780748	6,50779464	6,882643049	4,321928095
CDK3	0	0	0	0	0	0
CDK4	5,614709844	5,672425342	6,247927513	5,523561956	5,930737338	5,832890014
CDK5	3,584962501	2,584962501	4	0	1,584962501	0
CDK5R1	6,285402219	6,357552005	6,247927513	8,204571144	7,876516947	8,558420713
CDK5R2	0	0	0	0	0	0
CDK5RAP1	5,807354922	5,95419631	5,614709844	6,459431619	5,977279923	5,95419631
CDK5RAP2	7,266786541	6,942514505	7,607330314	7,918863237	7,707359132	8,108524457
CDK5RAP3	6,321928095	6,357552005	6,857980995	6,741466986	6,807354922	6,06608919
CDK6	8,257387843	8,082149041	8,164906927	7,727920455	8,033423002	7,761551232
CDK7	4,906890596	4,754887502	5,247927513	4,857980995	4,247927513	4,321928095
CDK8	5,832890014	5,247927513	5,129283017	5,700439718	5,169925001	5,832890014
CDK9	5,614709844	5,64385619	5,129283017	4,700439718	4,64385619	4,95419631
CDKAL1	5,285402219	5,459431619	5,781359714	5,754887502	6,087462841	5,357552005
CDKL1	3,584962501	1,584962501	3,700439718	2,321928095	2,321928095	0
CDKL2	1	0	0	3,321928095	2,321928095	3,169925001
CDKL3	2,321928095	2,584962501	1,584962501	4,700439718	4,247927513	4,95419631
CDKL4	0	0	0	0	0	0
CDKL5	3,584962501	3,807354922	4	4,523561956	3	0
CDKN1A	8,103287808	8,348728154	8,243173983	6,584962501	6,700439718	7,011227255
CDKN1B	8,721099189	8,686500527	8,654636029	9,539158811	9,48984796	9,475733431
CDKN1C	4,857980995	4,169925001	5,357552005	6,700439718	5,392317423	6,882643049
CDKN2A	3	3,906890596	3	5,247927513	4,459431619	4,64385619
CDKN2AIP	7,584962501	7,459431619	7,50779464	8,383704292	8,348728154	8,159871337
CDKN2AIPNL	3,321928095	4,169925001	3,700439718	5,247927513	3,700439718	0
CDKN2B	3	3,169925001	2,807354922	0	0	0
CDKN2B-AS1	3,321928095	1	2,807354922	2,321928095	0	0
CDKN2C	2,807354922	2,807354922	3	0	1,584962501	0
CDKN2D	7,918863237	7,900866808	7,74819285	7,727920455	7,451211112	7,348728154
CDKN3	1,584962501	3	2,584962501	0	0	0
CDNF	0	1	0	2,807354922	3	0
CDO1	1	0	1,584962501	3,321928095	2,321928095	4,95419631
CDON	4,700439718	2,807354922	3	4,523561956	3,321928095	5,700439718
CDR1	0	0	0	0	0	0
CDR2	5,807354922	5,64385619	5,247927513	7,076815597	6,832890014	7,312882955
CDR2L	0	0	1	0	1,584962501	0

CDRT1	0	0	0	0	0	0
CDRT15	0	0	0	0	0	0
CDRT15L2	0	0	0	0	0	0
CDRT15P1	0	0	0	0	0	0
CDRT15P2	0	0	0	0	0	0
CDRT4	0	1	1,584962501	0	3	3,169925001
CDRT7	0	0	0	0	0	0
CDS1	3,807354922	4,523561956	4,523561956	3,321928095	4,807354922	3,169925001
CDS2	7,392317423	7,238404739	7,577428828	7,285402219	7,584962501	7,312882955
CDSN	0	0	0	0	0	0
CDT1	0	1	0	0	0	0
CDV3	9,436711542	9,501837185	9,658211483	9,493855449	9,68474862	9,605479518
CDX1	0	0	0	0	0	0
CDX2	0	0	0	2,807354922	0	3,807354922
CDX4	0	0	0	0	0	0
CDY1	0	0	0	0	0	0
CDY1B	0	0	0	0	0	0
CDY2A	0	0	0	0	0	0
CDY2B	0	0	0	0	0	0
CDYL	6,569855608	7,033423002	6,700439718	7,247927513	7,50779464	7,409390936
CDYL2	4,95419631	4,857980995	5	5,930737338	5,781359714	5,357552005
CEACAM1	3,906890596	4	3,906890596	1	3,700439718	4,64385619
CEACAM16	0	0	0	0	0	0
CEACAM18	0	0	0	0	0	0
CEACAM19	1	0	0	0	0	0
CEACAM20	0	0	0	0	0	0
CEACAM21	4,169925001	3	3,700439718	5,129283017	4,95419631	4,64385619
CEACAM22P	0	0	1	1	1,584962501	2
CEACAM3	1	0	1,584962501	0	0	0
CEACAM4	1,584962501	0	1	0	0	0
CEACAM5	0	0	0	0	0	0
CEACAM6	0	1	1	0	0	0
CEACAM7	0	0	0	0	0	0
CEACAM8	1	1	1	3,807354922	3,700439718	3,169925001
CEBPA	7,754887502	7,592457037	7,366322214	0	0	2
CEBPB	9,794415866	9,920352855	9,905387005	8,312882955	8,651051691	8,515699838
CEBPD	7,159871337	7,06608919	6,87036472	6,321928095	7,266786541	6,882643049
CEBPE	1	2,321928095	0	0	0	2
CEBPG	7,312882955	7,539158811	7,21916852	6,930737338	6,832890014	6,882643049
CEBPZ	9,339850003	9,157346935	9,055282436	9,562242424	9,330916878	9,596189756
CECR2	2,807354922	2,321928095	1,584962501	2,321928095	0	2
CECR3	0	0	1	0	0	0
CECR7	1	1	0	0	0	0
CEL	0	0	0	0	0	0
CELA1	0	1,584962501	0	2,321928095	0	0
CELA2A	0	0	0	0	0	2
CELA2B	0	0	0	0	0	0
CELA3A	0	0	0	0	0	0
CELA3B	0	0	0	0	0	0
CELF1	10,01122726	10,02652344	10,15481811	10,06877828	10,03617361	10,07547915
CELF2	10,69609817	10,70043972	10,75988818	10,63753055	10,59991284	10,42101286
CELF3	0	0	0	0	0	0
CELF4	1,584962501	0	0	4,523561956	4,459431619	4,95419631
CELF5	0	2,584962501	0	7,409390936	6,321928095	8,016808288
CELF6	0	0	0	0	0	0
CELP	0	0	0	0	0	0
CELSR1	2,321928095	2,807354922	2,584962501	0	3	3,807354922
CELSR2	4	3,700439718	3	4,700439718	3,700439718	5,832890014

CELSR3	2,584962501	2,321928095	2,807354922	1	0	3,169925001
CEMP1	0	0	0	0	0	0
CEND1	0	0	0	0	0	0
CENPA	0	1,584962501	0	2,321928095	1,584962501	3,169925001
CENPB	6	5,727920455	5,882643049	6	6,700439718	4,95419631
CENPBD1	4,754887502	4,584962501	4	4,857980995	3,700439718	3,169925001
CENPE	5,426264755	4,64385619	5,169925001	5,129283017	3,700439718	6,169925001
CENPF	4,392317423	4	4,857980995	4,321928095	4,459431619	5,169925001
CENPH	3,807354922	3,584962501	4,087462841	4,321928095	3,321928095	4,321928095
CENPI	1,584962501	1,584962501	1,584962501	0	0	0
CENPJ	6,189824559	5,807354922	6,339850003	5,357552005	4,95419631	5,832890014
CENPK	6,584962501	6,357552005	6,22881869	6,554588852	6,409390936	6,700439718
CENPL	4,523561956	4,64385619	4,459431619	6	5,857980995	6,491853096
CENPM	2,807354922	3	1,584962501	4,700439718	5,087462841	4,95419631
CENPN	2,321928095	3,906890596	3,906890596	2,807354922	0	0
CENPO	3	2,584962501	2,584962501	3,807354922	3	3,169925001
CENPP	3	3	4,169925001	0	2,321928095	2
CENPQ	5,129283017	5,247927513	5,392317423	5,129283017	4,95419631	4,64385619
CENPT	4,523561956	4,584962501	4,754887502	4,087462841	5,087462841	4,64385619
CENPV	2,321928095	2,584962501	2,584962501	0	2,321928095	2
CENPW	4,700439718	5,129283017	4,906890596	0	0	0
CEP104	7,426264755	7,599912842	7,665335917	8,113742166	7,994353437	7,87036472
CEP112	1,584962501	2,584962501	3	1	2,321928095	3,807354922
CEP120	7,339850003	7,577428828	7,434628228	7,894817763	7,942514505	7,894817763
CEP128	5,523561956	5,285402219	5,781359714	5,614709844	5,169925001	6,247927513
CEP135	8,022367813	8,038918989	8,14974712	8,810571635	8,348728154	8,675957033
CEP152	6,794415866	7,257387843	7,011227255	6,977279923	6,918863237	6,965784285
CEP164	6,741466986	6,918863237	6,741466986	6,820178962	6,832890014	6,321928095
CEP170	7,276124405	7,339850003	7,022367813	6,845490051	6,614709844	7,129283017
CEP170P1	0	0	0	0	0	0
CEP19	4,700439718	4,857980995	3,807354922	5,882643049	6,129283017	6,409390936
CEP192	6,942514505	6,781359714	6,988684687	7,918863237	7,74819285	7,977279923
CEP250	5,247927513	5,727920455	5,614709844	5,882643049	6,087462841	4,64385619
CEP290	8,647458426	8,531381461	8,707359132	9,194756854	8,693486957	9,019590728
CEP350	9,967226259	9,967226259	10,14338321	9,84862294	9,808964175	9,930737338
CEP41	5,672425342	5,672425342	5,426264755	6,266786541	6,129283017	6,965784285
CEP44	6,882643049	6,882643049	6,599912842	7,098032083	7,087462841	6,882643049
CEP55	2,321928095	2,321928095	2	0	1,584962501	0
CEP57	8,312882955	8,13442632	8,14974712	8,312882955	8,64385619	8,108524457
CEP57L1	5,044394119	5,044394119	4,64385619	3,321928095	3,700439718	3,169925001
CEP63	7,562242424	7,876516947	7,74819285	7,714245518	7,73470962	8,21916852
CEP68	6,882643049	6,832890014	6,942514505	7,592457037	7,475733431	7,721099189
CEP70	4,906890596	4,754887502	4,700439718	5,754887502	5,930737338	6,06608919
CEP72	2,807354922	2,584962501	3,807354922	2,321928095	4	2
CEP76	4,64385619	4,459431619	5,357552005	3,321928095	5,392317423	4,95419631
CEP78	7,614709844	7,554588852	7,46760555	6,741466986	7,087462841	7,562242424
CEP85	5,906890596	5,392317423	5,491853096	4,087462841	4,807354922	4,64385619
CEP85L	8,379378367	8,159871337	8,511752654	8,787902559	8,566054038	8,826548487
CEP89	5,426264755	4,64385619	5,169925001	5,700439718	5,781359714	5,95419631
CEP95	7,022367813	7	6,918863237	7,303780748	7,108524457	7,539158811
CEP97	6,266786541	6,044394119	6,569855608	6,266786541	6,129283017	6,169925001
CEPT1	7,491853096	7,592457037	7,539158811	7,491853096	7,794415866	7,700439718
CER1	0	0	0	0	0	0
CERCAM	0	1	0	0	2,321928095	0
CERK	6,700439718	6,918863237	6,87036472	8,252665432	8,082149041	8,503825738
CERKL	0	0	0	0	0	0
CERS1	0	0	0	0	0	0
CERS2	7,845490051	7,960001932	7,960001932	7,515699838	7,523561956	7,46760555

CERS3	1,584962501	0	0	1	1,584962501	2
CERS4	2,584962501	2,807354922	3,807354922	1	1,584962501	3,169925001
CERS5	5,614709844	6	6,22881869	5,700439718	5,857980995	5,357552005
CERS6	7,820178962	7,813781191	7,8008999	6,554588852	6,459431619	6,820178962
CES1	2,807354922	2,807354922	2	0	0	0
CES1P1	0	1,584962501	0	3,321928095	4	4,64385619
CES1P2	0	0	0	0	0	0
CES2	6,108524457	5,832890014	5,977279923	6,189824559	6,857980995	5,832890014
CES3	0	0	0	0	0	0
CES4A	1	1	1,584962501	0	0	3,807354922
CES5A	0	0	0	1	0	0
CES5AP1	0	0	0	0	0	0
CETN1	0	0	0	0	0	0
CETN2	5,700439718	5,169925001	5,554588852	5,357552005	5,781359714	5,357552005
CETN3	7,392317423	7,807354922	7,50779464	8,366322214	8,426264755	8,413627929
CETN4P	0	1	0	0	0	0
CETP	0	0	0	3,321928095	3	0
CFB	2,807354922	3,700439718	4	0	0	0
CFC1	0	0	0	0	0	0
CFC1B	0	0	0	0	0	0
CFD	5,832890014	5,832890014	6,108524457	2,807354922	3,700439718	4,321928095
CFDP1	7,707359132	7,813781191	7,483815777	7,375039431	7,139551352	7,055282436
CFH	4,169925001	4,169925001	3,906890596	3,321928095	4,64385619	0
CFHR1	0	0	0	0	0	0
CFHR2	0	0	0	0	0	0
CFHR3	0	0	0	1	1,584962501	3,169925001
CFHR4	0	0	0	3,321928095	0	2
CFHR5	0	0	0	0	0	0
CFI	0	0	0	1	0	0
CFL1	10,5943246	10,6891244	10,55842071	10,10590851	10,22037833	10,03479896
CFL1P1	3	1	2,584962501	3,321928095	3	4,64385619
CFL2	5,491853096	5,614709844	5,209453366	4,321928095	4,807354922	5,95419631
CFLAR	9,335390355	9,368506462	9,577428828	9,710806434	9,712527	9,741466986
CFLAR-AS1	0	1	1	2,807354922	3,321928095	5,357552005
CFP	5,930737338	6,22881869	5,807354922	4,857980995	4	4,321928095
CFTR	0	0	1	0	0	0
CGA	0	0	0	0	0	0
CGB1	0	0	0	0	0	0
CGB2	0	0	0	0	0	0
CGB5	0	0	0	0	0	0
CGB7	0	0	0	0	0	0
CGB8	0	0	0	0	0	0
CGGBP1	8,810571635	8,816983623	8,791162889	9,116343961	9,162391329	9,079484784
CGN	2,321928095	2,321928095	0	3,321928095	1,584962501	4,64385619
CGNL1	0	1	0	2,321928095	0	2
CGREF1	0	0	0	0	0	0
CGRRF1	5,392317423	5,426264755	4,95419631	5,129283017	5,459431619	5,554588852
CH25H	1,584962501	0	0	0	0	3,169925001
CHAC1	1,584962501	1,584962501	0	4,087462841	3	3,169925001
CHAC2	1	3	2	0	3	2
CHAD	1	0	0	1	0	0
CHADL	0	0	0	0	0	0
CHAF1A	5,807354922	6,266786541	5,95419631	6,375039431	6,087462841	6,569855608
CHAF1B	1,584962501	1,584962501	1	1	0	0
CHAMP1	6,189824559	6,14974712	5,977279923	6,189824559	5,459431619	6,169925001
CHAT	0	0	0	0	0	0
CHCHD1	6,768184325	6,832890014	6,584962501	6,189824559	6,832890014	6,491853096
CHCHD10	6,539158811	6,807354922	6,820178962	6,321928095	6,50779464	6,569855608

CHCHD2	9,11113567	9,28077077	9,209453366	9,011227255	9,306061689	8,885696373
CHCHD3	5,807354922	6,189824559	5,357552005	5,930737338	5,727920455	5,700439718
CHCHD4	5,727920455	5,672425342	5,614709844	5,129283017	5,64385619	5,554588852
CHCHD5	2,321928095	3,584962501	3,169925001	0	3	0
CHCHD6	2,321928095	1,584962501	2	0	3	2
CHCHD7	6,87036472	6,930737338	6,95419631	6,22881869	6,741466986	6,321928095
CHD1	9,259743264	9,167418146	9,394462695	9,776433032	9,688250309	9,797661526
CHD1L	6,539158811	6,554588852	6,554588852	6,845490051	6,965784285	6,62935662
CHD2	9,759888183	9,776433032	9,920352855	10,25620869	10,07146236	10,4604559
CHD3	8,54689446	8,787902559	9,022367813	9,055282436	9,098032083	9,027905997
CHD4	7,475733431	7,73470962	7,794415866	7,499845887	7,451211112	7,942514505
CHD5	0	0	0	4,321928095	2,321928095	2
CHD6	7,434628228	7,50779464	7,900866808	8,487840034	8,285402219	8,768184325
CHD7	6,794415866	7,21916852	7,375039431	7,894817763	7,614709844	8,033423002
CHD8	7,820178962	8	8,129283017	8,531381461	8,405141463	8,603626345
CHD9	8,857980995	8,912889336	8,826548487	8,661778098	8,636624621	8,503825738
CHDH	1	2,584962501	1,584962501	5,459431619	4,459431619	5,357552005
CHEK1	4	3	3,321928095	5,129283017	4,459431619	4,321928095
CHEK2	2,321928095	3	2	0	0	3,807354922
CHEK2P2	0	0	0	0	0	0
CHERP	7,700439718	7,459431619	7,554588852	7,864186145	7,900866808	8,189824559
CHFR	6,965784285	6,409390936	6,768184325	6,658211483	6,741466986	5,832890014
CHGA	0	0	0	0	0	0
CHGB	0	0	0	0	0	0
CHI3L1	4,857980995	5,64385619	5,321928095	0	3,321928095	0
CHI3L2	1,584962501	3,584962501	2,807354922	4,321928095	3,321928095	4,321928095
CHIA	0	0	0	0	0	0
CHIC1	5,491853096	5,285402219	5	6,409390936	5,285402219	4,321928095
CHIC2	5,977279923	5,882643049	5,857980995	6,459431619	6,375039431	5,700439718
CHID1	6,06608919	6,375039431	5,95419631	5	5,781359714	4,64385619
CHIT1	1	0	1	0	2,321928095	2
CHKA	6,22881869	5,857980995	5,807354922	4,700439718	4	3,807354922
CHKB	4,247927513	4,392317423	4,857980995	0	2,321928095	0
CHKB-CPT1B	0	0	0	0	0	0
CHL1	2,584962501	1,584962501	0	3,807354922	4,247927513	3,807354922
CHM	6,741466986	6,930737338	6,95419631	7,285402219	7,434628228	7,592457037
CHML	6,375039431	5,930737338	6,523561956	5,930737338	6,129283017	5,95419631
CHMP1A	5,832890014	6,108524457	5,491853096	5,700439718	5,392317423	5,357552005
CHMP1B	8,77148947	8,710806434	8,611024797	8,614709844	8,962896005	8,569855608
CHMP2A	7,312882955	7,044394119	7,076815597	6,658211483	7	6,321928095
CHMP2B	8,523561956	8,50779464	8,396604781	8,224001674	8,531381461	8,21916852
CHMP3	8,682994584	8,86727874	8,661778098	8,294620749	8,330916878	8,06608919
CHMP4A	4,857980995	5,285402219	5,491853096	5,832890014	6,087462841	5,700439718
CHMP4B	8,885696373	9,095397023	9,030667136	9,022367813	9,21916852	8,915879379
CHMP4C	1	0	0	2,321928095	1,584962501	0
CHMP5	8,299208018	8,290018847	8,044394119	8,276124405	8,21916852	8,312882955
CHMP6	3,700439718	4	4,459431619	2,807354922	2,321928095	3,169925001
CHMP7	7,417852515	7,54689446	7,6794801	7,189824559	7,491853096	7,098032083
CHN1	3	3,169925001	2,584962501	4,321928095	4,459431619	4,321928095
CHN2	1	1	1	0	0	0
CHODL	1,584962501	0	0	2,321928095	1,584962501	3,807354922
CHODL-AS1	0	0	0	0	0	0
CHORDC1	7,636624621	7,62935662	7,845490051	7,62935662	7,672425342	7,700439718
CHP2	0	0	0	0	0	0
CHPF	2,584962501	2,584962501	1,584962501	0	3	0
CHPF2	5,64385619	6	6,189824559	6,321928095	6,189824559	5,95419631
CHPT1	6,894817763	6,339850003	6,426264755	6,06608919	6,247927513	5,832890014
CHRAC1	6,832890014	6,614709844	6,781359714	6,266786541	6,087462841	6,62935662

CHRD	0	0	0	0	0	0
CHRD1	0	0	0	0	0	0
CHRD12	0	0	0	0	0	0
CHRFAM7A	0	0	0	0	0	0
CHRM1	0	0	0	0	0	0
CHRM2	0	0	0	0	0	0
CHRM3	1,584962501	2,807354922	1	3,807354922	2,321928095	4,64385619
CHRM4	0	0	0	0	0	0
CHRM5	0	0	0	0	0	2
CHRNA1	0	0	0	2,807354922	2,321928095	2
CHRNA10	2,321928095	2,321928095	2	2,807354922	3	3,169925001
CHRNA2	0	0	0	0	0	0
CHRNA3	0	0	0	0	0	0
CHRNA4	0	0	0	0	0	0
CHRNA5	2,321928095	1	0	0	0	0
CHRNA6	0	0	0	4,700439718	3	4,321928095
CHRNA7	0	0	1,584962501	1	3	0
CHRNA9	0	0	0	6,22881869	5,087462841	7,348728154
CHRNB1	4,584962501	4,523561956	3,700439718	4,523561956	3,321928095	0
CHRNB2	0	0	0	0	0	0
CHRNB3	0	0	0	0	0	0
CHRNB4	0	0	0	0	0	0
CHRND	0	0	0	0	0	0
CHRNE	1	0	0	0	0	0
CHRNG	0	0	0	0	0	0
CHST1	0	1	0	2,321928095	4	2
CHST10	1	1	2	0	1,584962501	0
CHST11	8,714245518	8,939579214	8,912889336	8,033423002	8,321928095	8,290018847
CHST12	6,459431619	6,930737338	6,554588852	7,339850003	7,17990909	7,348728154
CHST13	3,700439718	3,906890596	3,807354922	0	0	0
CHST14	5,285402219	5,584962501	5,392317423	5,129283017	5,087462841	3,807354922
CHST15	5	5,357552005	5,614709844	3,807354922	3,321928095	4,321928095
CHST2	6,988684687	7,276124405	7,011227255	5,930737338	6,044394119	4,64385619
CHST3	0	0	0	0	0	0
CHST4	0	0	0	0	0	0
CHST5	0	0	0	0	0	0
CHST6	0	0	0	2,807354922	0	3,169925001
CHST7	5,129283017	4,64385619	4	3,807354922	4	4,64385619
CHST8	0	0	0	0	0	0
CHST9	2,807354922	1	0	0	0	0
CHSY1	6,95419631	7,06608919	6,741466986	6,22881869	6,942514505	6,321928095
CHSY3	0	0	0	0	0	0
CHTF18	1,584962501	2,807354922	3,584962501	2,321928095	1,584962501	3,807354922
CHTF8	7,06608919	7,108524457	7,348728154	7,768184325	7,554588852	7,672425342
CHTOP	8,189824559	8,290018847	8,022367813	8,426264755	8,581200582	8,463524373
CHUK	7,199672345	6,882643049	6,857980995	6,62935662	6,189824559	6,247927513
CHURC1	8,383704292	8,527477006	8,535275377	8,781359714	8,924812504	8,885696373
CHURC1-FNTB	0	0	0	0	0	0
CIAO1	5,426264755	5,614709844	5,930737338	6	6,375039431	5,357552005
CIAPIN1	4,700439718	4,857980995	4,700439718	5,754887502	5,459431619	5,95419631
CIB1	7,787902559	7,942514505	8,118941073	8,087462841	8,21916852	7,832890014
CIB2	0	1	0	0	0	0
CIB3	0	0	0	0	0	0
CIB4	0	0	0	0	0	0
CIC	5,392317423	5,554588852	6,409390936	5,129283017	5,977279923	4,95419631
CIDEA	0	0	0	0	0	0
CIDEB	3,321928095	4,169925001	3,807354922	2,321928095	2,321928095	0
CIDEC	0	0	0	1	1,584962501	

CIDCEP	4,459431619	4,169925001	5,129283017	4,087462841	4,247927513	3,807354922
CIITA	7,930737338	7,888743249	8,144658243	4,857980995	4,95419631	5,169925001
CILP	0	1	1	2,321928095	0	0
CILP2	0	0	0	0	0	2
CINP	4,392317423	4,584962501	4,754887502	3,807354922	3,700439718	2
CIR1	9,422064766	9,335390355	9,430452552	9,465566405	9,449148645	9,696967526
CIRBP	8,832890014	8,915879379	9,076815597	8,519636253	8,714245518	8,257387843
CIRBP-AS1	0	0	0	0	0	0
CISD1	6,539158811	6,14974712	5,95419631	5,930737338	6,044394119	6,321928095
CISD2	7,06608919	7,159871337	7	5,523561956	6,189824559	5,832890014
CISD3	5,129283017	5,832890014	5,930737338	5,247927513	4,64385619	3,807354922
CISH	7,276124405	6,930737338	6,942514505	2,807354922	4,459431619	5,554588852
CIT	1,584962501	1	1,584962501	1	0	2
CITED1	0	0	0	0	0	0
CITED2	7,741466986	7,693486957	7,483815777	7,076815597	7,209453366	7,209453366
CITED4	2,807354922	1,584962501	2,584962501	0	0	0
CIZ1	6,22881869	6,087462841	6,475733431	6,06608919	5,64385619	5,700439718
CKAP2	5,727920455	6,087462841	5,95419631	5,129283017	5,781359714	3,807354922
CKAP2L	1	2,584962501	2,584962501	2,807354922	0	3,807354922
CKAP4	7,451211112	7,761551232	7,357552005	8,124121312	7,965784285	7,539158811
CKAP5	6,700439718	6,942514505	6,906890596	6,658211483	6,918863237	6,247927513
CKB	0	1,584962501	0	1	0	0
CKLF	7,622051819	7,6794801	7,366322214	7,303780748	7,06608919	7,055282436
CKLF-CMTM1	0	0	0	0	0	0
CKM	0	0	0	0	0	0
CKMT1A	0	0	0	0	0	0
CKMT1B	0	0	0	0	0	0
CKMT2	0	0	0	0	0	3,169925001
CKS1B	5,672425342	6,087462841	5,321928095	6,794415866	6,247927513	6,247927513
CKS2	4,169925001	3,807354922	3,906890596	4,523561956	5,169925001	5,169925001
CLASP1	7,055282436	6,741466986	7,357552005	7,614709844	7,417852515	7,375039431
CLASP2	7,442943496	7,54689446	7,651051691	7,098032083	7,087462841	7,312882955
CLASRP	5,584962501	5,727920455	6,491853096	6	5,392317423	6,169925001
CLC	6,50779464	6,569855608	6,189824559	6,409390936	6,321928095	6,247927513
CLCA1	0	0	0	0	0	0
CLCA2	1,584962501	1,584962501	1,584962501	0	0	3,169925001
CLCA3P	1	0	0	0	0	0
CLCA4	0	0	0	0	0	0
CLCC1	6,584962501	6,475733431	6,285402219	5,247927513	5,781359714	3,807354922
CLCF1	3,459431619	4,321928095	3	1	2,321928095	0
CLCN1	0	0	0	0	0	0
CLCN2	3	2,807354922	2,584962501	5,459431619	3,321928095	5,700439718
CLCN3	7,936637939	7,807354922	7,523561956	8,584962501	8,361943774	8,714245518
CLCN4	5,044394119	5	4,64385619	5,247927513	3,700439718	6,06608919
CLCN5	5,727920455	4,857980995	5,554588852	2,321928095	1,584962501	3,169925001
CLCN6	5,285402219	5,781359714	5,584962501	5,129283017	5,285402219	5,700439718
CLCN7	6,475733431	6,375039431	7,087462841	6,700439718	6,189824559	6,62935662
CLCNKA	0	0	0	0	0	0
CLCNKB	0	0	0	0	0	0
CLDN1	0	1,584962501	0	0	0	0
CLDN10	0	0	0	0	0	0
CLDN11	0	0	0	1	0	0
CLDN12	2,321928095	3	2	4,321928095	3	5,832890014
CLDN14	0	0	0	0	0	0
CLDN15	4,906890596	5,392317423	5,882643049	7,409390936	7,383704292	6,965784285
CLDN16	0	0	0	0	0	0
CLDN17	0	0	0	0	0	0
CLDN18	0	0	0	0	3	2

CLDN19	0	0	0	1	0	0
CLDN2	0	0	0	0	0	0
CLDN20	0	0	0	0	0	0
CLDN22	0	0	0	0	0	0
CLDN23	2,321928095	1,584962501	1,584962501	0	0	0
CLDN24	0	0	0	0	0	0
CLDN25	0	0	0	0	0	0
CLDN3	0	0	0	0	0	0
CLDN4	0	0	0	0	0	0
CLDN5	0	0	0	0	0	0
CLDN6	0	0	0	0	0	0
CLDN7	1,584962501	2,807354922	1	0	0	0
CLDN8	0	1	0	0	0	0
CLDN9	0	0	0	0	0	0
CLDND1	7,686500527	7,658211483	7,46760555	8,396604781	8,523561956	8,238404739
CLDND2	1	1	2,584962501	1	1,584962501	0
CLEC10A	8,22881869	8,209453366	7,636624621	0	2,321928095	0
CLEC11A	2,321928095	3	2,584962501	0	0	0
CLEC12A	7,199672345	7,383704292	7,098032083	3,807354922	4,459431619	3,169925001
CLEC12B	1	1	0	0	0	0
CLEC14A	0	0	0	1	1,584962501	4,321928095
CLEC16A	5,64385619	5	5,209453366	6,266786541	5,285402219	6,321928095
CLEC17A	0	0	0	0	0	0
CLEC18A	0	0	0	0	0	0
CLEC18B	0	0	0	0	0	0
CLEC18C	0	0	0	0	0	0
CLEC19A	2,584962501	2,807354922	1	3,807354922	3,700439718	4,64385619
CLEC1A	1,584962501	0	1	0	0	0
CLEC1B	1	0	1	2,321928095	0	2
CLEC2A	0	0	0	0	0	0
CLEC2B	8,761551232	8,654636029	8,400879436	8,113742166	8,463524373	8,189824559
CLEC2D	9,917372079	10,02928723	10,17242751	10,57837269	10,54882191	10,44914865
CLEC2L	0	0	0	1	0	0
CLEC3A	0	0	0	0	0	0
CLEC3B	0	0	0	0	0	0
CLEC4A	4,584962501	3,700439718	4,523561956	0	0	0
CLEC4C	0	1	0	0	0	0
CLEC4D	5,491853096	4,95419631	5,209453366	0	1,584962501	0
CLEC4E	8,539158811	8,64385619	8,791162889	1	4,807354922	3,807354922
CLEC4F	1	0	0	0	0	0
CLEC4G	0	0	0	0	0	0
CLEC4GP1	0	0	0	0	0	0
CLEC4M	0	0	0	0	0	0
CLEC5A	8,761551232	9,074141463	8,951284715	3,807354922	5,169925001	2
CLEC6A	4,169925001	4,392317423	3,700439718	0	0	0
CLEC7A	9,118941073	9,005624549	8,897845456	3,807354922	3,321928095	3,807354922
CLEC9A	0	0	0	0	0	0
CLECL1	3,584962501	3,584962501	3,700439718	4,857980995	5,554588852	4,95419631
CLGN	0	0	0	0	1,584962501	0
CLIC1	7,599912842	8,022367813	8,321928095	7,22881869	7,50779464	6,965784285
CLIC2	5,169925001	5,523561956	4,95419631	4,087462841	4	4,321928095
CLIC3	2,584962501	3,584962501	3,700439718	1	3,321928095	0
CLIC4	7,665335917	7,658211483	7,434628228	6,375039431	6,50779464	6,06608919
CLIC5	4,247927513	4,584962501	3,906890596	4,523561956	5,781359714	0
CLIC6	1,584962501	0	0	0	0	0
CLINT1	9,620219826	9,525520809	9,539158811	9,766528909	9,691743519	9,688250309
CLIP1	9,588714636	9,415741768	9,539158811	8,82336724	8,86727874	8,915879379
CLIP2	3,906890596	2,584962501	4,169925001	2,321928095	3,321928095	0

CLIP3	1	0	0	0	0	0
CLIP4	7,491853096	7,321928095	7,577428828	7,960001932	7,948367232	7,918863237
CLK1	9,216745858	9,192292814	9,317412614	10,14082977	10,27496047	9,970105891
CLK2	6,87036472	6,882643049	7,098032083	6,977279923	7,434628228	6,965784285
CLK3	6,584962501	6,169925001	6,523561956	7,658211483	7,721099189	7,700439718
CLK4	7,375039431	7,483815777	7,442943496	7,851749041	8,011227255	7,592457037
CLLU1	3,906890596	2,807354922	3,169925001	5,357552005	6,087462841	6,754887502
CLLU1OS	0	1,584962501	2	0	4	0
CLMN	5,64385619	5,930737338	5,614709844	1	2,321928095	3,169925001
CLMP	0	0	0	0	2,321928095	3,169925001
CLN3	2,321928095	2,807354922	3	4,087462841	2,321928095	2
CLN5	7,06608919	7,375039431	7,14974712	7,741466986	7,62935662	8,413627929
CLN6	2,321928095	2,807354922	3,169925001	0	0	0
CLN8	6,087462841	6,321928095	6,491853096	4,857980995	4,807354922	4,95419631
CLNK	2,807354922	2,584962501	2	4,321928095	1,584962501	5,357552005
CLNS1A	8	7,851749041	7,577428828	7,876516947	8,370687407	7,965784285
CLOCK	7,577428828	7,339850003	7,523561956	7,768184325	7,888743249	7,832890014
CLP1	5,672425342	5,247927513	5	5,700439718	5,64385619	5,700439718
CLPB	6,129283017	6,357552005	6,392317423	5,523561956	5,857980995	5,700439718
CLPP	6,14974712	6,129283017	6,06608919	6,658211483	6,321928095	4,64385619
CLPS	0	0	0	0	0	0
CLPSL1	0	0	0	0	0	0
CLPSL2	0	0	0	0	0	0
CLPTM1	4,95419631	5,727920455	6	5,832890014	5,392317423	5,700439718
CLPTM1L	8,204571144	8,204571144	8,243173983	8,243173983	7,982993575	8,033423002
CLPX	8	7,665335917	7,50779464	8,139551352	7,864186145	7,918863237
CLRN1	0	0	0	0	0	0
CLRN1-AS1	0	0	0	0	0	0
CLRN2	0	0	0	0	0	0
CLRN3	0	0	0	0	0	0
CLSPN	4,392317423	3,807354922	3,906890596	4,087462841	4,64385619	4,64385619
CLSTN1	7,857980995	7,930737338	8,124121312	8,199672345	8,129283017	7,491853096
CLSTN2	1	0	1	0	0	0
CLSTN3	4	4,64385619	4,459431619	3,321928095	4	3,807354922
CLTA	7,693486957	7,894817763	7,714245518	7,303780748	7,523561956	7,592457037
CLTB	5,614709844	5,459431619	5,614709844	4,087462841	4,95419631	0
CLTC	9,625708843	9,620219826	9,535275377	9,306061689	9,098032083	9,385862401
CLTCL1	2,321928095	0	0	0	0	0
CLU	4,584962501	4	4,64385619	5	5,169925001	4,95419631
CLUAP1	5,64385619	5,95419631	5,807354922	6,977279923	6,614709844	7,375039431
CLUL1	0	0	0	0	0	0
CLVS1	0	0	0	2,321928095	0	2
CLVS2	0	0	0	2,807354922	0	3,169925001
CLYBL	4,754887502	4,64385619	4,95419631	4,523561956	5,459431619	3,807354922
CMA1	0	0	0	0	0	0
CMAHP	5,614709844	6,108524457	6,50779464	6,129283017	6,375039431	5,357552005
CMA5	7,50779464	7,383704292	7,434628228	7,098032083	7,087462841	6,409390936
CMBL	0	0	0	0	0	0
CMC1	7,960001932	7,820178962	7,714245518	8,299208018	8,426264755	8,033423002
CMC2	5,977279923	5,930737338	6,50779464	6,584962501	6,658211483	6,491853096
CMIP	9,008428622	9,438791853	9,525520809	9,337621902	9,364134655	8,915879379
CMKLR1	7,965784285	7,741466986	7,826548487	4,700439718	4,95419631	4,321928095
CMPK1	8,927777962	8,73470962	8,816983623	9,172427509	9,35974956	9,095397023
CMPK2	6,392317423	6,459431619	6,426264755	3,807354922	5,169925001	5,95419631
CMTM1	0	0	0	0	0	0
CMTM2	0	0	0	2,807354922	0	0
CMTM3	7,011227255	6,965784285	6,906890596	6,906890596	6,658211483	6,882643049
CMTM4	2,321928095	2,321928095	1,584962501	0	2,321928095	3,169925001

CMTM5	0	0	0	0	0	0
CMTM6	10,20579325	10,27029533	10,20823436	9,105908509	9,17990909	9,172427509
CMTM7	7,139551352	7,50779464	7,50779464	6,977279923	6,614709844	6,569855608
CMTM8	5,906890596	5,727920455	5,882643049	7,098032083	6,965784285	6,820178962
CMYA5	2,584962501	2,321928095	0	5,129283017	4	5,554588852
CNBD1	0	0	0	0	0	0
CNBP	9,413627929	9,419960178	9,330916878	9,955649908	9,824958741	9,958552715
CNDP1	1	0	0	2,321928095	2,321928095	0
CNDP2	7,820178962	7,930737338	7,768184325	6,906890596	7,321928095	6,930737338
CNEP1R1	6,108524457	6,108524457	6,339850003	6	5,857980995	4,64385619
CNFN	0	0	0	0	0	0
CNGA1	0	0	1	0	0	0
CNGA2	0	0	0	0	0	0
CNGA3	0	0	0	0	0	0
CNGA4	0	0	0	0	0	0
CNGB1	0	0	0	0	2,321928095	5,169925001
CNGB3	0	0	0	0	1,584962501	2
CNIH2	0	0	0	0	0	0
CNIH3	1	0	1	3,321928095	2,321928095	4,95419631
CNIH4	7,417852515	7,599912842	7,707359132	7,266786541	7,108524457	7,209453366
CNKSR1	0	0	0	0	0	0
CNKSR2	5,700439718	5,087462841	5,523561956	6,95419631	6,539158811	7,409390936
CNKSR3	2,321928095	3	2,807354922	5,357552005	4,807354922	6,06608919
CNN1	0	0	0	0	0	0
CNN2	7,87036472	7,930737338	8,22881869	7,754887502	8,022367813	7,491853096
CNN3	4	4,754887502	4,392317423	4,857980995	4	2
CNNM1	0	0	1	0	0	0
CNNM2	3,459431619	3,906890596	4	2,807354922	1,584962501	0
CNNM3	4,700439718	5,459431619	5,392317423	5,247927513	4,95419631	5,357552005
CNNM4	5,882643049	5,857980995	5,614709844	4,857980995	4,95419631	3,807354922
CNOT1	8,434628228	8,405141463	8,511752654	8,845490051	8,535275377	8,845490051
CNOT10	5,727920455	5,95419631	5,882643049	6,22881869	6,285402219	6,169925001
CNOT2	7,73470962	7,64385619	7,754887502	8,357552005	8,30833903	8,434628228
CNOT3	4,321928095	4,087462841	4,169925001	5	4,247927513	4,95419631
CNOT4	6,87036472	6,658211483	6,942514505	7,459431619	7,247927513	7,409390936
CNOT6	7,62935662	7,442943496	7,658211483	7,357552005	7,475733431	7,442943496
CNOT6L	10,04439412	10,08081753	10,19105921	10,43983088	10,57175264	10,42101286
CNOT7	8,438791853	8,409390936	8,366322214	8,714245518	8,912889336	8,816983623
CNOT8	7,741466986	7,665335917	7,577428828	8,049848549	8,011227255	7,994353437
CNP	6,475733431	6,357552005	6,491853096	5,882643049	6,247927513	5,700439718
CNPPD1	6,247927513	6,658211483	6,614709844	6,930737338	6,918863237	6,700439718
CNPY1	0	0	0	0	2,321928095	3,169925001
CNPY2	6,409390936	6,882643049	6,754887502	6,95419631	6,768184325	7,129283017
CNPY3	5,781359714	5,727920455	5,247927513	5,357552005	5,392317423	4,95419631
CNPY4	5,906890596	6,303780748	6	6	6,409390936	3,169925001
CNR1	1	1	0	2,807354922	3	3,169925001
CNR2	4,95419631	4,321928095	4,584962501	4,087462841	4,64385619	3,807354922
CNRIP1	2,321928095	1	1	0	0	0
CNST	6,426264755	5,727920455	6,044394119	7,266786541	6,918863237	7,169925001
CNTD1	0	0	0	0	0	0
CNTD2	0	0	0	3,807354922	2,321928095	4,321928095
CNTF	0	0	0	0	0	0
CNTR	0	0	0	0	0	2
CNTLN	6,62935662	6,108524457	6,569855608	4,700439718	2,321928095	4,95419631
CNTN1	0	0	2	0	0	0
CNTN2	0	0	1	0	0	2
CNTN3	0	1,584962501	0	0	0	0
CNTN4	0	0	0	0	0	0

CNTN5	0	2,807354922	1,584962501	0	0	3,169925001
CNTN6	0	1,584962501	0	0	0	3,169925001
CNTNAP1	0	1,584962501	0	0	0	0
CNTNAP2	3	3,321928095	3,321928095	4,321928095	3	5,169925001
CNTNAP3	0	0	0	0	0	0
CNTNAP3B	0	0	0	0	0	0
CNTNAP4	0	0	1	0	0	0
CNTNAP5	0	0	0	2,807354922	3,321928095	3,169925001
CNTRL	9,063395081	8,965784285	9,079484784	9,164906927	8,794415866	8,700439718
CNTR0B	1,584962501	3,321928095	3,321928095	0	2,321928095	3,169925001
COA5	6,965784285	7,169925001	7,055282436	7,285402219	7,400879436	7,129283017
COASY	5,129283017	5,247927513	5	4,321928095	5,459431619	5,700439718
COBL	2,321928095	0	2,807354922	3,807354922	5,285402219	5,95419631
COBLL1	5,882643049	5,426264755	5,95419631	5,882643049	5,930737338	5,700439718
COCH	1	2,321928095	1	0	1,584962501	0
COG1	5,491853096	5,727920455	5,247927513	6,06608919	6,285402219	5,169925001
COG2	6,087462841	6,62935662	6,169925001	6,820178962	6,539158811	7,247927513
COG3	7,022367813	7,129283017	7,06608919	7,577428828	7,400879436	7,622051819
COG4	6,129283017	5,95419631	6,614709844	7,672425342	7,321928095	7,409390936
COG5	6,22881869	6,523561956	6,569855608	6,409390936	6,658211483	6,700439718
COG6	7,011227255	7,108524457	6,50779464	6,22881869	5,930737338	4,95419631
COG7	3,807354922	4,523561956	4,754887502	4,700439718	4	5,357552005
COG8	4,95419631	5,584962501	5,169925001	6,375039431	6,459431619	5,95419631
COIL	7,21916852	6,965784285	7,118941073	7,357552005	7,523561956	7,312882955
COL10A1	0	0	0	0	0	0
COL11A1	3	0	1,584962501	0	0	3,807354922
COL11A2	1	0	0	4,700439718	3,700439718	5,95419631
COL12A1	0	0	1	1	0	4,321928095
COL13A1	0	0	0	0	0	0
COL14A1	1	1,584962501	0	0	0	3,169925001
COL15A1	1	0	0	0	0	2
COL16A1	0	0	0	1	1,584962501	3,807354922
COL17A1	0	0	0	1	0	0
COL18A1	4,169925001	4,169925001	4,523561956	6,22881869	5,977279923	6,491853096
COL18A1-AS1	0	0	0	0	0	0
COL19A1	4,459431619	4,523561956	4,523561956	6,95419631	6,882643049	7,64385619
COL1A1	0	0	0	0	3,321928095	3,169925001
COL1A2	1	2,321928095	1	4,321928095	3,700439718	4,95419631
COL20A1	0	0	0	3,807354922	1,584962501	4,321928095
COL21A1	1,584962501	1	1	3,807354922	2,321928095	3,807354922
COL22A1	0	0	0	0	0	0
COL23A1	0	1,584962501	1,584962501	0	0	0
COL24A1	2,807354922	2,584962501	2,807354922	2,807354922	3	3,169925001
COL25A1	0	0	0	2,807354922	0	3,169925001
COL27A1	1,584962501	1,584962501	1	4,321928095	4,95419631	3,807354922
COL28A1	0	0	0	0	0	0
COL2A1	0	0	0	2,807354922	0	5,357552005
COL3A1	0	0	0	0	0	0
COL4A1	1,584962501	2,584962501	1	4,700439718	4	4,64385619
COL4A2	2,321928095	0	0	2,807354922	0	0
COL4A3	3,700439718	3,169925001	3,807354922	5,459431619	5,285402219	5,832890014
COL4A3BP	8,839203788	8,758223215	8,839203788	8,294620749	8,113742166	8,348728154
COL4A4	2,321928095	2,321928095	3,584962501	0	0	0
COL4A5	0	1	0	1	0	0
COL4A6	0	0	0	0	0	2
COL5A1	0	2,321928095	0	1	1,584962501	3,169925001
COL5A2	1	2,321928095	0	3,807354922	4	4,95419631
COL5A3	0	0	3	1	0	3,169925001

COL6A1	0	1,584962501	1	2,321928095	0	0
COL6A2	1	1	2,807354922	0	0	0
COL6A3	1	1,584962501	1,584962501	2,321928095	1,584962501	3,169925001
COL6A4P1	0	0	0	0	0	0
COL6A4P2	2,321928095	1	2,807354922	4,523561956	3	5,554588852
COL6A5	0	0	0	0	0	0
COL6A6	0	0	0	0	0	0
COL7A1	1	0	0	5	3,700439718	4,64385619
COL8A1	0	0	0	1	0	0
COL8A2	4	3,807354922	3,169925001	0	0	0
COL9A1	0	0	0	3,321928095	0	2
COL9A2	0	0	0	0	0	3,169925001
COL9A3	5,044394119	5	5,392317423	5,832890014	5,857980995	6,169925001
COLEC10	0	0	0	2,321928095	2,321928095	2
COLEC11	0	0	0	0	1,584962501	3,169925001
COLEC12	4,392317423	4,321928095	3,906890596	0	0	0
COLQ	2,321928095	2,321928095	3	4,087462841	2,321928095	3,169925001
COMMD1	5,727920455	5,614709844	5,882643049	5	5,781359714	4,321928095
COMMD10	7,011227255	6,832890014	6,614709844	4,321928095	4,95419631	3,807354922
COMMD2	7,857980995	7,707359132	7,8008999	7,285402219	7,554588852	7,442943496
COMMD3	7,584962501	7,554588852	7,459431619	7,375039431	7,159871337	7,276124405
COMMD3-BMI1	0	0	0	0	0	0
COMMD4	5,209453366	5,087462841	4,700439718	4,523561956	5,087462841	4,321928095
COMMD5	6,22881869	6,14974712	6,108524457	5	5,459431619	0
COMMD6	8,611024797	8,588714636	8,447083226	9,45532722	9,434628228	9,487840034
COMMD7	7,247927513	6,988684687	6,754887502	6,409390936	6,700439718	6,491853096
COMMD8	7,499845887	7,50779464	7,357552005	6,189824559	6,044394119	5,554588852
COMMD9	5,95419631	5,321928095	5,357552005	4,321928095	3,700439718	5,169925001
COMP	0	0	0	0	0	0
COMT	7,54689446	7,741466986	7,64385619	6,22881869	6,459431619	5,832890014
COMTD1	2,584962501	3	3,700439718	0	0	0
COPA	8,299208018	8,312882955	8,344295908	8,409390936	8,379378367	8,447083226
COPB1	9,100662339	9,019590728	8,912889336	8,539158811	8,62935662	8,379378367
COPB2	8,73809226	8,554588852	8,294620749	8,614709844	8,21916852	8,758223215
COPE	6,700439718	6,754887502	6,820178962	6,409390936	6,539158811	6,247927513
COPG1	6,129283017	6,409390936	6,285402219	6,06608919	5,857980995	5,554588852
COPG2	4,169925001	2,807354922	4,169925001	2,807354922	2,321928095	0
COPS2	7,942514505	7,832890014	7,882643049	8,285402219	8,044394119	8,400879436
COPS3	6,584962501	6,857980995	6,247927513	6,658211483	6,409390936	6,169925001
COPS4	5,523561956	5,727920455	5,882643049	5	5,930737338	4,95419631
COPS5	6,807354922	6,918863237	6,965784285	7,129283017	7,139551352	7,348728154
COPS6	6,087462841	6,321928095	6,06608919	6,321928095	5,930737338	5,832890014
COPS7A	7,129283017	7,426264755	7,209453366	6,554588852	6,321928095	5,700439718
COPS7B	5,129283017	5,087462841	5,700439718	5,832890014	6,044394119	6,06608919
COPS8	7,033423002	7,312882955	7,159871337	7,459431619	7,554588852	6,62935662
COPZ1	7,614709844	7,665335917	7,636624621	7,693486957	7,832890014	7,918863237
COPZ2	0	0	1	2,321928095	1,584962501	3,169925001
COQ10A	4,247927513	4,584962501	3,321928095	2,807354922	3	2
COQ10B	7,426264755	7,199672345	7,033423002	7,098032083	7,06608919	6,820178962
COQ2	6	5,459431619	5,523561956	2,321928095	2,321928095	2
COQ3	4,459431619	4	4	6,321928095	5,554588852	6,882643049
COQ4	4,392317423	5,247927513	4,857980995	5,882643049	5,857980995	5,700439718
COQ5	6,189824559	6,539158811	6,087462841	6,768184325	6,614709844	6,882643049
COQ6	4	4,584962501	4,087462841	5,247927513	4,95419631	4,321928095
COQ7	5,209453366	4,700439718	5	4,857980995	5,459431619	4,321928095
COQ9	4,857980995	4,700439718	5	3,807354922	5,285402219	0
CORIN	1	1,584962501	0	2,321928095	1,584962501	0
CORO1A	4,700439718	5,087462841	5	6,06608919	5,727920455	3,169925001

CORO1B	6,189824559	6,442943496	6,918863237	5,614709844	4,95419631	3,807354922
CORO1C	8,271463028	8,64385619	8,539158811	5,930737338	6,247927513	5,357552005
CORO2A	5,285402219	5,554588852	5,754887502	6,129283017	5,857980995	5,700439718
CORO2B	0	0	0	0	0	0
CORO6	0	0	0	0	1,584962501	0
CORO7	5,523561956	5,977279923	6,087462841	5,614709844	4,95419631	5,554588852
CORO7-PAM16	0	0	0	0	0	0
CORT	0	0	0	0	0	0
COTL1	10,58965115	10,64835758	10,46352437	9,082149041	9,324180547	9,105908509
COX10	4,95419631	4,906890596	4,392317423	5,357552005	4,64385619	4,64385619
COX11	6	6	6,06608919	6,266786541	6,285402219	5,832890014
COX14	7,554588852	7,707359132	7,826548487	7,781359714	8,103287808	7,894817763
COX15	6,06608919	6	5,857980995	6,584962501	7,159871337	6,820178962
COX16	5,614709844	5,426264755	5,129283017	5,614709844	6,247927513	6,06608919
COX17	6,672425342	6,584962501	6,714245518	6,06608919	6,459431619	6,882643049
COX18	6,965784285	6,807354922	6,768184325	7,599912842	7,209453366	7,64385619
COX19	7,686500527	7,754887502	7,392317423	7,768184325	7,693486957	7,741466986
COX20	7,592457037	7,357552005	7,312882955	6	5,977279923	4,64385619
COX411	9,194756854	9,240791332	9,136991112	10,15355203	10,35645197	10,38154295
COX412	0	0	0	0	0	0
COX5A	8,400879436	8,233619677	8	7,614709844	7,74819285	7,247927513
COX5B	8,098032083	8,247927513	7,977279923	7,055282436	7,523561956	7,209453366
COX6A1	6,700439718	6,965784285	6,426264755	6,95419631	7,022367813	6,569855608
COX6A2	0	0	0	0	0	0
COX6B1	7,882643049	8,060695932	7,8008999	7,781359714	8,252665432	7,672425342
COX6B2	0	0	0	0	0	0
COX6C	9,667111542	9,681238412	9,453270634	9,688250309	9,887220615	9,434628228
COX7A1	0	0	0	0	0	0
COX7A2	8,658211483	8,603626345	8,499845887	8,584962501	8,77148947	8,531381461
COX7A2L	7,813781191	8,033423002	7,614709844	8,383704292	8,471675214	8,447083226
COX7B	8,479780264	8,375039431	8,124121312	7,960001932	8,022367813	7,918863237
COX7B2	0	1	0	0	0	0
COX7C	10,01541505	10,02236781	9,885696373	10,72195361	10,75321675	10,75988818
COX8A	7,894817763	8	7,982993575	7,375039431	7,599912842	7,539158811
COX8C	0	0	0	2,321928095	1,584962501	3,169925001
CP	1	3,169925001	2,807354922	4,321928095	4,64385619	4,95419631
CPA1	0	0	0	0	0	0
CPA2	0	0	0	0	0	0
CPA3	5,169925001	5,357552005	5,700439718	4,321928095	4,64385619	4,321928095
CPA4	0	0	0	0	0	0
CPA5	0	0	0	0	0	0
CPA6	1	0	0	0	0	0
CPAMD8	0	1,584962501	0	0	0	0
CPB1	1	0	0	2,321928095	3,700439718	4,321928095
CPB2	0	0	0	0	2,321928095	0
CPD	7,672425342	7,607330314	7,607330314	7,64385619	7,64385619	7,592457037
CPE	0	0	0	0	0	0
CPEB1	2,321928095	0	0	2,321928095	3	4,321928095
CPEB2	5,672425342	5,832890014	5,357552005	6,129283017	5,169925001	6,169925001
CPEB3	6	5,807354922	6	5,357552005	5,087462841	3,807354922
CPEB4	7,965784285	7,74819285	7,930737338	6,882643049	6,741466986	7,375039431
CPLX1	0	0	1,584962501	2,321928095	1,584962501	0
CPLX2	0	0	0	0	0	0
CPLX3	0	0	0	0	0	0
CPLX4	0	0	0	2,807354922	0	3,807354922
CPM	7,592457037	7,665335917	7,348728154	4,523561956	4,807354922	4,64385619
CPN1	0	0	0	0	0	0
CPN2	0	0	0	0	0	0

CPNE1	7,011227255	7,247927513	7,321928095	7,942514505	7,807354922	7,977279923
CPNE2	4,247927513	4,459431619	4,584962501	5,357552005	4,247927513	5,700439718
CPNE3	8,625708843	8,491853096	8,388017285	8,607330314	8,62935662	8,257387843
CPNE4	0	0	0	0	0	0
CPNE5	4,523561956	4,64385619	4,523561956	6,554588852	6,129283017	6,62935662
CPNE6	0	0	0	0	0	0
CPNE7	2,321928095	1,584962501	3	2,807354922	4	4,321928095
CPNE8	5,882643049	6,169925001	5,727920455	4,523561956	3,321928095	4,95419631
CPNE9	0	0	0	0	0	0
CPO	0	0	0	0	1,584962501	2
CPOX	5,700439718	5,882643049	5,672425342	6,129283017	6,700439718	6,06608919
CPPED1	7,17990909	7,108524457	6,918863237	0	4,247927513	0
CPQ	6,894817763	6,930737338	6,906890596	5,357552005	5,169925001	3,807354922
CPS1	1	0	0	0	0	0
CPSF1	4,95419631	4,95419631	4,700439718	5	5,169925001	5,357552005
CPSF2	8,189824559	8,108524457	7,77478706	8,184875343	8,092757141	8,51569838
CPSF3	6,22881869	6,285402219	6,321928095	6,50779464	6,409390936	6,569855608
CPSF4	5,169925001	5,554588852	5,781359714	5,247927513	5,285402219	3,169925001
CPSF4L	0	0	0	0	0	0
CPSF6	8,060695932	8,164906927	8,22881869	8,243173983	8,055282436	8,463524373
CPSF7	7,73470962	7,832890014	7,820178962	8,442943496	8,523561956	8,06608919
CPT1A	8,375039431	8,491853096	8,487840034	7,960001932	7,73470962	7,894817763
CPT1B	2,584962501	3,584962501	3,169925001	2,807354922	4,64385619	2
CPT1C	0	0	0	0	0	0
CPT2	6,087462841	5,727920455	6,475733431	5,247927513	5,285402219	5,169925001
CPVL	8,479780264	8,344295908	8,189824559	2,321928095	1,584962501	4,321928095
CPXCR1	0	0	0	0	0	0
CPXM1	0	0	0	0	0	0
CPXM2	0	1	0	0	0	4,321928095
CPZ	0	0	0	0	0	0
CR1	5,614709844	5,129283017	5,129283017	5,357552005	4	3,169925001
CR1L	1,584962501	1,584962501	2	0	0	0
CR2	4,906890596	4,857980995	4,459431619	5,523561956	5,285402219	5,357552005
CRABP1	0	0	0	0	0	0
CRABP2	1	1,584962501	1	2,807354922	2,321928095	4,321928095
CRADD	3,906890596	4	4,523561956	4,087462841	3,700439718	4,321928095
CRAT	2,584962501	4	4,700439718	0	1,584962501	0
CRB1	0	0	0	2,807354922	1,584962501	2
CRB2	0	0	0	0	0	0
CRB3	0	0	0	0	1,584962501	0
CRBN	8,54303182	8,430452552	8,622051819	8,451211112	8,665335917	8,189824559
CRCP	6,569855608	6,672425342	6,392317423	7,022367813	7,06608919	7,247927513
CRCT1	0	0	0	0	0	0
CREB1	9,049848549	8,962896005	8,985841937	9,442943496	9,262094845	9,33315535
CREB3	6,129283017	5,977279923	6,087462841	5,247927513	6,375039431	4,95419631
CREB3L1	0	0	0	1	0	2
CREB3L2	7,348728154	7,54689446	7,54689446	6,906890596	6,857980995	6,965784285
CREB3L3	0	0	0	0	0	0
CREB3L4	5,129283017	5,285402219	5,672425342	6,50779464	5,977279923	5,95419631
CREB5	6,906890596	6,942514505	6,942514505	2,807354922	4,459431619	5,700439718
CREBBP	8,939579214	9,079484784	9,25502857	9,245552706	9,25502857	9,236014192
CREBL2	9,098032083	9,124121312	9,057991723	7,918863237	8,174925683	7,761551232
CREBZF	8,447083226	8,668884984	8,45532722	9,221587121	9,142107057	8,927777962
CREG1	8,499845887	8,475733431	8,584962501	4,857980995	5,392317423	0
CREG2	0	2,807354922	2	2,321928095	4,247927513	4,95419631
CRELD1	3,459431619	3,700439718	3,807354922	5,247927513	4,247927513	3,169925001
CRELD2	6,614709844	6,942514505	6,965784285	5,930737338	5,781359714	5,554588852
CREM	7,77478706	7,693486957	7,330916878	9,147204925	9,14974712	9,419960178

CRH	0	0	0	1	0	0
CRHBP	0	1	0	0	0	0
CRHR1	0	0	0	0	0	0
CRHR2	0	0	0	0	0	0
CRIM1	7,912889336	7,982993575	8,011227255	6,189824559	6,539158811	5,832890014
CRIP1	3,906890596	3,321928095	3,807354922	4,087462841	3,700439718	2
CRIP2	0	2,321928095	2,584962501	0	0	0
CRIP3	0	1	0	0	0	0
CRIPT	5,523561956	5,426264755	4,754887502	5,247927513	4,459431619	5,700439718
CRISP1	1	2,584962501	0	3,321928095	3	3,807354922
CRISP2	0	0	0	0	0	0
CRISP3	2,807354922	1,584962501	2,584962501	0	3	2
CRISPLD1	0	0	0	0	0	0
CRISPLD2	4,392317423	4,523561956	4,247927513	2,321928095	2,321928095	3,169925001
CRK	6,882643049	6,392317423	6,942514505	6,189824559	6,285402219	6,409390936
CRKL	7,693486957	7,636624621	7,554588852	7,994353437	8,257387843	7,851749041
CRLF1	0	0	0	0	0	0
CRLF2	1	1	0	0	0	0
CRLF3	7,636624621	7,434628228	7,6794801	8,233619677	7,820178962	8,174925683
CRLS1	7,033423002	7,129283017	6,930737338	7,285402219	7,321928095	7,46760555
CRMP1	0	0	0	0	0	0
CRNDE	1,584962501	1	0	0	0	0
CRNKL1	6,807354922	6,584962501	6,754887502	7,022367813	6,807354922	7,491853096
CRNN	0	0	0	0	0	0
CROCC	5,357552005	5,169925001	5,491853096	5,247927513	5,392317423	2
CROCCP2	6,700439718	6,658211483	6,658211483	6,930737338	6,882643049	6,409390936
CROCCP3	3,584962501	3,584962501	3,169925001	1	0	0
CROT	5,906890596	4,95419631	5,247927513	4,523561956	5,169925001	4,64385619
CRP	0	0	0	0	1,584962501	0
CRTAC1	0	0	0	0	0	0
CRTAM	7,894817763	7,607330314	7,672425342	8,348728154	8,566054038	8,21916852
CRTAP	7,022367813	6,894817763	6,930737338	7,129283017	7,044394119	7,011227255
CRTC1	3,459431619	3,584962501	3,807354922	2,321928095	3,321928095	2
CRTC2	5,321928095	5,247927513	5,672425342	6,62935662	5,727920455	6,491853096
CRTC3	7,46760555	7,348728154	7,54689446	7,554588852	7,876516947	7,942514505
CRX	0	0	1,584962501	1	2,321928095	3,807354922
CRY1	6,845490051	6,658211483	6,475733431	7,098032083	6,741466986	7,098032083
CRY2	5,426264755	5,781359714	6,087462841	6,06608919	6,087462841	5,700439718
CRYAA	0	0	0	0	0	0
CRYAB	0	0	0	0	0	0
CRYBA1	0	0	0	0	0	0
CRYBA2	0	0	0	0	0	0
CRYBA4	0	0	0	0	0	0
CRYBB1	0	0	0	0	0	0
CRYBB2	0	0	0	0	0	0
CRYBB2P1	3,700439718	4,584962501	4,857980995	5,357552005	4,64385619	5,357552005
CRYBB3	0	0	0	0	0	0
CRYGA	1,584962501	0	0	0	0	3,807354922
CRYGB	0	0	0	0	0	0
CRYGC	0	0	0	0	0	0
CRYGD	0	0	0	0	0	0
CRYGN	0	0	0	0	0	0
CRYGS	0	2,807354922	1	1	0	0
CRYL1	6,022367813	6,22881869	5,754887502	6,06608919	5,64385619	5,554588852
CRYM	0	0	0	0	0	0
CRYM-AS1	1	0	0	0	0	0
CRYZ	7,011227255	6,539158811	6,965784285	6,700439718	6,741466986	6,321928095
CRYZL1	6,426264755	6,523561956	6,339850003	7,022367813	6,658211483	6,882643049

CS	6,768184325	6,894817763	7,098032083	6,906890596	6,614709844	6,700439718
CSAD	5,727920455	6,108524457	5,930737338	6,189824559	5,857980995	6,882643049
CSAG1	0	0	0	0	0	0
CSAG2	0	0	0	0	0	0
CSAG3	0	0	0	0	0	0
CSDC2	0	0	0	0	0	0
CSDE1	11,09539702	11,08613623	11,07079181	11,21249639	11,169925	11,20028561
CSE1L	6,339850003	6,584962501	6,303780748	7,209453366	7,285402219	6,754887502
CSF1	4,95419631	4,169925001	5,129283017	4,523561956	5,169925001	4,64385619
CSF1R	7,73470962	7,918863237	8,108524457	0	1,584962501	0
CSF2	0	0	0	1	0	2
CSF2RA	5,882643049	5,807354922	6,06608919	3,321928095	2,321928095	4,64385619
CSF2RB	8,366322214	8,098032083	7,948367232	6,409390936	7,044394119	6,754887502
CSF3	0	0	0	0	0	0
CSF3R	5,930737338	5,523561956	5,614709844	3,321928095	3,321928095	3,807354922
CSGALNACT1	6,781359714	6,727920455	6,714245518	8,357552005	8,113742166	8,463524373
CSGALNACT2	8,339850003	8,375039431	8,326429487	8,060695932	8,276124405	8,159871337
CSH1	0	0	0	0	0	0
CSH2	0	0	0	0	0	0
CSHL1	0	0	0	0	0	0
CSK	6,794415866	7,108524457	6,930737338	6,658211483	6,700439718	6,700439718
CSMD1	0	0	1	1	3	4,321928095
CSMD2	2,807354922	3	2,584962501	5,357552005	4,64385619	5,54588852
CSMD3	3,584962501	2,584962501	2,807354922	4,321928095	4,247927513	5,700439718
CSN1S1	1	0	0	0	0	2
CSN1S2AP	0	0	0	0	0	2
CSN2	0	0	0	0	0	0
CSN3	0	0	0	0	0	0
CSNK1A1	8,816983623	8,562242424	8,640244936	9,164906927	9,047123912	9,326429487
CSNK1A1L	2,584962501	3,169925001	0	4,321928095	2,321928095	3,807354922
CSNK1A1P1	1,584962501	2,321928095	2	2,321928095	3	2
CSNK1D	7,62935662	7,686500527	7,77478706	8,204571144	8,209453366	7,965784285
CSNK1E	5,906890596	6,339850003	6,599912842	6,820178962	5,977279923	6,321928095
CSNK1G1	6,754887502	6,62935662	6,247927513	7,022367813	6,857980995	7,011227255
CSNK1G2	7,357552005	7,64385619	7,721099189	8,636624621	8,45532722	8,531381461
CSNK1G2-AS1	0	0	0	0	0	0
CSNK1G3	8,049848549	7,851749041	7,826548487	8,647458426	8,361943774	8,816983623
CSNK2A1	8,233619677	8,383704292	8,434628228	8,710806434	8,573647187	8,686500527
CSNK2A2	8,511752654	8,531381461	8,554588852	8,6794801	8,784634846	8,622051819
CSNK2B	7,982993575	8,082149041	8,475733431	8,375039431	8,62935662	8,447083226
CSPG4	0	0	0	0	0	0
CSPG4P1Y	0	0	0	0	0	0
CSPG5	0	0	0	1	2,321928095	4,321928095
CSPP1	7,523561956	7,159871337	7,06608919	7,813781191	7,584962501	8,174925683
CSRNP1	7,714245518	7,475733431	7,06608919	6,459431619	7,022367813	6,491853096
CSRNP2	4,247927513	4,459431619	4,459431619	3,807354922	3,700439718	0
CSRNP3	1,584962501	0	2,584962501	3,321928095	3	3,807354922
CSRP1	3,906890596	5,087462841	4,392317423	3,807354922	4,459431619	3,169925001
CSRP2	0	1	0	1	1,584962501	0
CSRP3	0	0	0	1	0	2
CST1	0	0	0	0	0	0
CST11	0	0	0	0	0	0
CST2	0	0	0	0	0	0
CST3	7,022367813	7,276124405	6,882643049	0	4	3,169925001
CST4	0	0	0	0	0	0
CST5	0	0	0	0	0	0
CST6	2,584962501	3,700439718	2,584962501	0	0	0
CST7	7,257387843	7,483815777	7,614709844	7,189824559	7,707359132	4,321928095

CST8	0	0	0	0	0	0
CST9	0	0	0	0	0	0
CST9L	0	0	0	0	0	0
CSTA	7,761551232	7,483815777	7,426264755	2,807354922	3	0
CSTB	9,696967526	9,851749041	9,73470962	7,906890596	8,330916878	7,169925001
CSTF1	6,714245518	6,727920455	6,409390936	7	7,348728154	7,055282436
CSTF2	5,357552005	5,087462841	4,906890596	5,523561956	5,781359714	5,700439718
CSTF2T	7,442943496	6,857980995	7,14974712	7,727920455	7,62935662	7,832890014
CSTF3	6,988684687	6,672425342	7,011227255	7,906890596	7,876516947	8,475733431
CSTL1	0	0	0	0	0	0
CT45A1	0	0	0	0	0	0
CT45A2	0	0	0	0	0	0
CT45A3	0	0	0	0	0	0
CT45A5	0	0	0	0	0	0
CT45A6	0	0	0	0	0	0
CT47A1	0	0	0	0	0	0
CT47A10	0	0	0	0	0	0
CT47A11	0	0	0	0	0	0
CT47A12	0	0	0	0	0	0
CT47A2	0	0	0	0	0	0
CT47A3	0	0	0	0	0	0
CT47A4	0	0	0	0	0	0
CT47A5	0	0	0	0	0	0
CT47A6	0	0	0	0	0	0
CT47A7	0	0	0	0	0	0
CT47A8	0	0	0	0	0	0
CT47A9	0	0	0	0	0	0
CT47B1	0	0	0	0	0	0
CT62	0	0	0	0	0	0
CTAG1A	0	0	0	0	0	0
CTAG1B	0	0	0	0	0	0
CTAG2	0	0	0	0	1,584962501	0
CTAGE1	2,321928095	1	0	2,321928095	1,584962501	0
CTAGE10P	0	0	0	0	0	0
CTAGE11P	1	0	2	0	0	0
CTAGE4	0	0	0	0	0	0
CTAGE7P	2,584962501	1	2	1	1,584962501	0
CTAGE9	0	0	0	0	0	0
CTBP1	7,451211112	7,375039431	7,62935662	7,781359714	7,312882955	7,442943496
CTBP2	7,303780748	7,339850003	7,569855608	6,794415866	6,285402219	6,247927513
CTBS	6,614709844	6,06608919	6,50779464	6,375039431	6,539158811	6,409390936
CTC1	5,554588852	5,930737338	6,22881869	6,189824559	6,285402219	5,554588852
CTCF	8,810571635	8,836050355	9,011227255	8,994353437	9,13442632	9,131856961
CTCFL	0	1,584962501	1	2,321928095	3,321928095	4,321928095
CTDNEP1	8,243173983	8,499845887	8,383704292	8,471675214	8,693486957	8,592457037
CTDP1	5,906890596	6,357552005	6,044394119	6,700439718	6,375039431	6,62935662
CTDSP1	7,820178962	7,994353437	7,826548487	7,554588852	7,569855608	7,276124405
CTDSP2	8,499845887	8,361943774	8,438791853	8,599912842	8,592457037	8,665335917
CTDSPL	0	0	0	0	1,584962501	3,169925001
CTDSPL2	7,839203788	7,64385619	7,794415866	8,14974712	8,285402219	8,379378367
CTF1	0	0	0	0	0	0
CTGF	1,584962501	0	1,584962501	0	0	0
CTH	2,584962501	2,584962501	2	3,321928095	1,584962501	0
CTHRC1	0	0	0	0	0	0
CTIF	2,807354922	1,584962501	1,584962501	0	0	0
CTLA4	4,700439718	4,64385619	4,700439718	5	5,285402219	6,06608919
CTNNA1	7,781359714	7,483815777	7,636624621	5,459431619	5,392317423	3,807354922
CTNNA2	0	1,584962501	0	1	1,584962501	3,169925001

CTNNA3	0	0	0	2,807354922	3,321928095	2
CTNNAL1	4	3,321928095	4	4,523561956	4	5,357552005
CTNNB1	9,057991723	9,233619677	9,375039431	8,751544059	8,86727874	8,491853096
CTNNBIP1	6,129283017	6,62935662	6,409390936	4,523561956	5,285402219	4,64385619
CTNNBL1	7,076815597	7,483815777	7,46760555	7,459431619	7,672425342	7,672425342
CTNND1	7,17990909	6,942514505	7,022367813	6,700439718	5,781359714	6,700439718
CTNND2	3,700439718	3,700439718	4,584962501	4,087462841	3,700439718	4,95419631
CTNS	4,523561956	5,129283017	5	0	3,321928095	0
CTPS2	2,584962501	2,807354922	2,807354922	1	0	2
CTR9	8,909893084	8,768184325	8,73809226	8,836050355	8,86727874	8,965784285
CTRB1	0	0	0	0	0	0
CTRB2	0	0	0	0	0	0
CTRC	0	0	0	5,700439718	3,700439718	6,169925001
CTRL	0	0	1,584962501	0	0	0
CTSA	7,348728154	7,599912842	7,50779464	5,459431619	5,459431619	4,64385619
CTSB	10,92407019	10,90839262	10,88493365	7,247927513	7,73470962	7,491853096
CTSC	9,47370575	9,436711542	9,321928095	7,375039431	7,312882955	7,169925001
CTSD	10,24911345	10,50779464	10,40194612	7,64385619	8,129283017	7,761551232
CTSE	0	0	0	0	0	0
CTSF	5,523561956	5,357552005	5,357552005	5,357552005	4,95419631	4,95419631
CTSG	0	0	0	0	0	0
CTSH	8,985841937	9,240791332	9,247927513	6	6,807354922	5,832890014
CTSK	4,584962501	4,584962501	5,044394119	2,807354922	0	0
CTSO	7,857980995	7,741466986	7,46760555	7,129283017	7,159871337	6,930737338
CTSS	12,37721053	12,29232163	12,29232163	8,95419631	9,011227255	8,700439718
CTSW	2,584962501	3,321928095	4,247927513	4,523561956	4,95419631	3,807354922
CTSZ	8,475733431	8,816983623	9,116343961	4,321928095	4,64385619	4,64385619
CTTN	2,321928095	2,321928095	1,584962501	2,807354922	3	4,95419631
CTTNBP2	2,584962501	1	1,584962501	0	0	0
CTTNBP2NL	5,807354922	6,209453366	5,523561956	4,523561956	4	4,64385619
CTU1	1,584962501	3,906890596	3	1	2,321928095	2
CTU2	3,459431619	4	3,169925001	0	1,584962501	2
CTXN1	0	0	0	0	0	0
CTXN2	0	0	0	0	0	0
CTXN3	0	0	0	0	0	0
CUBN	3,700439718	2,807354922	2,584962501	4,087462841	1,584962501	5,554588852
CUEDC1	4,64385619	3,700439718	4,459431619	0	0	0
CUEDC2	4,459431619	5	4,64385619	4,700439718	5,285402219	2
CUL1	8,103287808	7,888743249	7,994353437	7,906890596	7,851749041	7,813781191
CUL2	7,330916878	6,845490051	6,857980995	7,426264755	7,209453366	7,312882955
CUL3	8,071462363	7,857980995	7,707359132	8,252665432	7,948367232	8,144658243
CUL4A	8,531381461	8,686500527	8,751544059	8,614709844	8,483815777	8,290018847
CUL4B	8,17990909	7,894817763	7,982993575	8,339850003	8,285402219	8,463524373
CUL5	8,854868383	8,700439718	8,845490051	8,689997971	8,794415866	8,647458426
CUL7	2,807354922	4	2,807354922	1	1,584962501	2
CUL9	4,906890596	5,169925001	6	5,930737338	5,554588852	6,321928095
CUTA	7,011227255	7,199672345	6,857980995	7,189824559	7,451211112	7,129283017
CUTC	5,930737338	6,06608919	5,584962501	5,754887502	6,459431619	6,247927513
CUX1	8,475733431	8,361943774	8,479780264	8,14974712	7,721099189	7,787902559
CUX2	0	2,584962501	0	4,321928095	4,807354922	0
CUZD1	0	2,321928095	1	2,807354922	3,700439718	0
CWC15	8,614709844	8,519636253	8,758223215	8,86727874	8,77148947	9,105908509
CWC22	8,499845887	8,511752654	8,413627929	9,116343961	9,025139562	9,394462695
CWC25	7,383704292	7,599912842	7,483815777	7,876516947	7,781359714	7,622051819
CWC27	8,276124405	7,960001932	8,082149041	8,519636253	8,321928095	8,603626345
CWF19L1	5,781359714	5,857980995	6,426264755	6,584962501	6,285402219	6,169925001
CWF19L2	8,761551232	8,781359714	9,174925683	9,199672345	8,903881846	9,154818109
CWH43	0	0	0	0	0	0

CX3CL1	0	0	0	0	0	0
CX3CR1	7,672425342	7,686500527	7,483815777	7,971543554	8,276124405	7,832890014
CXADR	2,321928095	3,321928095	3,169925001	4,523561956	4	5,832890014
CXADRP2	0	0	0	0	0	0
CXADRP3	0	0	0	0	0	0
CXCL1	4	5,247927513	5,614709844	6,266786541	7,044394119	4,64385619
CXCL10	9,440869168	9,620219826	9,142107057	5,459431619	6,50779464	6,569855608
CXCL11	7,087462841	6,977279923	6,339850003	3,807354922	3,700439718	5,554588852
CXCL12	0	0	0	0	0	0
CXCL13	0	0	2	4,087462841	3,321928095	2
CXCL14	0	0	0	0	0	0
CXCL16	6,882643049	7,17990909	7,247927513	5	5,459431619	5,169925001
CXCL17	0	0	0	0	0	0
CXCL2	6,95419631	6,475733431	6,658211483	5	6,614709844	3,807354922
CXCL3	6,303780748	6,044394119	6,303780748	6,409390936	6,942514505	6,754887502
CXCL5	3,321928095	4	5,906890596	6,820178962	8,665335917	6,930737338
CXCL6	0	0	0	0	0	0
CXCL9	10,36522885	10,43983088	10,19475685	6,554588852	7,614709844	7,539158811
CXCR1	0	0	0	0	0	2
CXCR2	3,700439718	4,169925001	4,247927513	3,321928095	4,459431619	4,95419631
CXCR2P1	5,977279923	5,554588852	5,247927513	3,321928095	2,321928095	4,321928095
CXCR3	6,044394119	5,977279923	5,807354922	5,614709844	5,857980995	6,06608919
CXCR4	10,34429591	10,45121111	10,31288296	10,97513146	11,11958962	10,97513146
CXCR5	5,584962501	5,781359714	5,491853096	7,055282436	7,366322214	7,46760555
CXCR6	4,321928095	3,584962501	4,459431619	6,375039431	6,658211483	5,95419631
CXorf21	6,882643049	6,303780748	6,247927513	6,741466986	5,459431619	6,491853096
CXorf36	0	0	0	0	0	0
CXorf38	7,523561956	7,434628228	7,087462841	7,189824559	7,523561956	7,562242424
CXorf40A	1,584962501	1,584962501	0	0	1,584962501	2
CXorf40B	2,584962501	1	1,584962501	1	0	0
CXorf49	0	0	0	0	0	0
CXorf49B	0	0	0	0	0	0
CXorf51A	0	0	0	0	0	0
CXorf51B	0	0	0	0	0	0
CXorf56	6,044394119	6,62935662	6,303780748	6,266786541	6,409390936	4,64385619
CXorf57	4,459431619	4,906890596	5,044394119	6	5,857980995	4,64385619
CXorf58	0	1,584962501	0	1	3	4,321928095
CXorf65	0	0	0	0	0	2
CXorf66	0	0	0	0	0	0
CXXC1	6,409390936	6,62935662	6,62935662	7,055282436	7,159871337	7,247927513
CXXC1P1	0	0	0	0	0	0
CXXC4	3,700439718	4,392317423	4	6,62935662	6,50779464	7,592457037
CXXC5	8,129283017	7,982993575	7,965784285	7,741466986	7,491853096	7,894817763
CYB561	6	5,807354922	6,321928095	6,459431619	6,658211483	5,169925001
CYB561D1	4,906890596	5,584962501	5,209453366	4,523561956	4,64385619	2
CYB561D2	5,321928095	4,95419631	5,129283017	2,584962501	2,321928095	0
CYB5A	6	5,977279923	5,672425342	5	5,554588852	4,321928095
CYB5B	7,076815597	7,087462841	6,87036472	7,475733431	7,50779464	7,442943496
CYB5D1	0	0	0	0	0	0
CYB5D2	4	4,321928095	4,247927513	4,857980995	5,459431619	5,95419631
CYB5R1	6,965784285	6,375039431	6,50779464	5,930737338	6,375039431	4,64385619
CYB5R2	1,584962501	1	0	0	0	0
CYB5R3	7,707359132	7,845490051	7,64385619	6,845490051	6,882643049	6,06608919
CYB5R4	8,076815597	7,982993575	8,22881869	7,169925001	7,159871337	7,129283017
CYB5RL	3,906890596	4,087462841	3,906890596	3,321928095	3,700439718	3,807354922
CYBA	6,087462841	6,303780748	6,409390936	4,321928095	4	3,169925001
CYBB	12,10590851	12,03514275	12,24138736	7,794415866	8,21916852	7,994353437
CYBRD1	3,906890596	4,754887502	4,584962501	0	0	0

CYC1	7,06608919	6,930737338	6,523561956	6,129283017	6,044394119	4,95419631
CYCS	8,21916852	8,049848549	8,159871337	7,714245518	7,851749041	7,87036472
CYCSP52	0	0	0	0	0	0
CYFIP1	7,375039431	7,303780748	7,348728154	3,807354922	4	0
CYFIP2	8,379378367	8,335390355	8,661778098	9,556506055	9,577428828	9,703903573
CYGB	0	0	0	0	0	2
CYHR1	5,285402219	5,882643049	5,700439718	5,754887502	5,554588852	6,06608919
CYLC1	0	0	0	0	0	0
CYLC2	1,584962501	0	2,807354922	2,321928095	3	3,807354922
CYLD	10,29576893	10,19844504	10,28886607	10,30378075	10,28424575	10,27029533
CYMP	0	0	0	0	0	0
CYP11A1	0	0	0	0	0	0
CYP11B1	0	0	0	0	0	0
CYP11B2	0	0	0	0	0	0
CYP17A1	0	0	0	0	0	0
CYP19A1	1,584962501	2,584962501	1,584962501	4,700439718	4,807354922	0
CYP1A1	0	0	0	4,700439718	3,700439718	5,95419631
CYP1A2	0	0	0	0	0	0
CYP1B1	12,92295599	12,92295599	12,92295599	7,714245518	9,407267764	7,87036472
CYP1B1-AS1	1	1,584962501	1	2,807354922	3	4,64385619
CYP20A1	6,832890014	6,554588852	6,658211483	6,459431619	5,857980995	4,64385619
CYP21A1P	0	0	0	0	0	0
CYP21A2	0	0	0	0	0	0
CYP24A1	0	0	0	0	0	0
CYP26A1	0	0	0	0	0	0
CYP26B1	0	0	0	1	0	0
CYP26C1	0	0	0	0	0	0
CYP27A1	7,21916852	7,357552005	7,636624621	0	3,321928095	0
CYP27B1	1,584962501	1,584962501	1	0	1,584962501	2
CYP27C1	0	1	1	0	3,321928095	3,169925001
CYP2A13	0	0	0	0	0	0
CYP2A6	0	0	0	0	0	0
CYP2A7	0	0	0	0	0	0
CYP2B6	0	0	0	0	0	3,169925001
CYP2C18	0	0	0	0	0	0
CYP2C19	0	0	0	0	0	0
CYP2C8	0	0	0	0	0	0
CYP2C9	0	0	0	0	0	0
CYP2D6	0	0	0	0	0	0
CYP2E1	1,584962501	0	0	1	0	3,807354922
CYP2F1	0	0	0	0	0	0
CYP2G1P	0	0	0	0	0	2
CYP2J2	0	0	0	0	0	0
CYP2R1	4,392317423	3,700439718	4,459431619	2,321928095	4,459431619	4,321928095
CYP2S1	3,906890596	3,807354922	3,700439718	0	0	0
CYP2U1	4,906890596	5,169925001	5,044394119	5,357552005	4	5,700439718
CYP2W1	0	0	0	0	0	0
CYP39A1	0	0	1	0	0	0
CYP3A4	0	0	0	0	1,584962501	0
CYP3A43	0	0	0	0	0	0
CYP3A5	1,584962501	2,321928095	2,584962501	3,807354922	2,321928095	5,169925001
CYP3A7	0	0	0	0	0	2
CYP46A1	0	2,584962501	1	2,807354922	4	5,832890014
CYP4A11	0	0	0	0	0	0
CYP4A22	0	0	0	0	0	0
CYP4B1	0	0	0	0	0	0
CYP4F11	0	0	0	0	0	0
CYP4F12	0	0	0	0	0	0

CYP4F2	0	0	0	0	0	0
CYP4F22	0	0	0	2,321928095	0	0
CYP4F24P	0	0	0	0	0	0
CYP4F3	1,584962501	1	0	2,807354922	2,321928095	0
CYP4F30P	0	0	0	0	0	0
CYP4F35P	0	0	0	0	0	0
CYP4F8	0	0	1	1	0	0
CYP4V2	6,022367813	6,108524457	5,857980995	5,614709844	5,285402219	4,95419631
CYP4X1	1	0	0	0	0	0
CYP4Z1	0	0	0	0	0	2
CYP4Z2P	0	0	0	0	0	0
CYP51A1	1	3	2,584962501	0	0	0
CYP7A1	0	0	0	0	0	0
CYP7B1	0	1,584962501	0	0	0	0
CYP8B1	0	0	0	0	0	0
CYR61	0	0	0	0	0	0
CYS1	0	0	0	0	0	0
CYSLTR1	8,189824559	8,129283017	8,049848549	8,159871337	8,022367813	7,851749041
CYSLTR2	5,129283017	4,169925001	4,087462841	3,321928095	3	4,321928095
CYSTM1	6,807354922	6,22881869	6,426264755	5,357552005	5,930737338	4,95419631
CYTH1	9,625708843	9,658211483	9,517669388	10,48884435	10,38909352	10,47370575
CYTH2	5,392317423	5,357552005	4,64385619	3,321928095	5,087462841	5,169925001
CYTH3	5,832890014	6,321928095	6	6,459431619	6,832890014	6,491853096
CYTH4	6,832890014	7,21916852	7,118941073	6,977279923	7,400879436	6,321928095
CYTIP	9,103287808	9	9,116343961	9,873444113	10,02652344	9,84862294
CYTL1	2,321928095	1	0	0	0	0
CYR1	1	0	0	0	0	0
D2HGDH	5,426264755	5,857980995	5,584962501	6,06608919	5,727920455	5,832890014
DAAM1	7,813781191	7,761551232	7,781359714	7,754887502	8,033423002	7,977279923
DAAM2	0	0	0	0	0	0
DAB1	1	0	0	0	0	3,169925001
DAB2	8,214319121	8,271463028	8,049848549	5,754887502	6,285402219	6,491853096
DAB2IP	0	0	0	0	0	0
DACH1	2,584962501	4,087462841	3	1	1,584962501	2
DACH2	1,584962501	0	0	0	1,584962501	0
DACT1	2,584962501	2,321928095	2,807354922	1	0	2
DACT2	0	0	0	0	0	0
DACT3	2,321928095	1,584962501	1	3,807354922	0	2
DAD1	6,882643049	7,055282436	6,62935662	7,022367813	6,658211483	6,820178962
DAG1	4,700439718	3,584962501	4,087462841	2,321928095	2,321928095	0
DAGLA	3	4,087462841	4,857980995	0	0	0
DAGLB	4,857980995	5,247927513	4,857980995	3,807354922	4,807354922	3,807354922
DALRD3	4,584962501	4,64385619	5,129283017	5,459431619	5,459431619	5,357552005
DANCR	5,614709844	5,807354922	5,247927513	6,95419631	6,584962501	7,055282436
DAND5	0	0	0	1	0	0
DAO	0	0	0	0	0	0
DAOA	1	0	0	0	0	0
DAOA-AS1	0	0	0	0	0	0
DAP	7,169925001	6,845490051	6,906890596	6,06608919	5,977279923	5,169925001
DAP3	7,982993575	7,918863237	7,839203788	8,562242424	8,14974712	8,257387843
DAPK1	8,164906927	8,388017285	8,129283017	3,807354922	3	3,169925001
DAPK2	3,700439718	2,807354922	3,906890596	5,459431619	5,64385619	4,321928095
DAPK3	3,321928095	4,169925001	4,392317423	2,807354922	1,584962501	0
DAPL1	0	0	0	0	0	0
DAPP1	9,019590728	8,977279923	8,912889336	8,113742166	8,370687407	8,238404739
DARS	9,252665432	9,124121312	9,030667136	9,194756854	9,539158811	9,041659152
DARS2	5,129283017	5,321928095	5,044394119	4,087462841	5,285402219	5,169925001
DAXX	6,794415866	6,918863237	6,87036472	7,491853096	7,348728154	7,672425342

DAZ1	0	0	0	0	0	0
DAZ2	0	0	0	0	0	0
DAZ3	0	0	0	0	0	0
DAZ4	0	0	0	0	0	0
DAZAP1	7,888743249	8,076815597	7,906890596	9,319672121	9,154818109	9,231221181
DAZAP2	10,61194694	10,63753055	10,52160044	10,28424575	10,34651373	10,06877828
DAZL	0	0	0	0	0	0
DBF4	6,658211483	6,357552005	6,614709844	6,459431619	6,459431619	6,06608919
DBF4B	0	0	1,584962501	0	0	0
DBH	0	0	0	0	0	0
DBI	9,396604781	9,525520809	9,259743264	8,276124405	8,413627929	7,977279923
DBIL5P	0	0	0	0	0	0
DBIL5P2	0	1	2	0	0	0
DBN1	3	3,169925001	2	3,321928095	2,321928095	3,807354922
DBNDD1	0	0	0	0	0	0
DBNDD2	0	0	0	0	0	0
DBNL	7,539158811	7,807354922	7,442943496	7,906890596	7,74819285	8,290018847
DBP	4,247927513	4,169925001	4,459431619	4,523561956	4	4,64385619
DBR1	7,562242424	7,515699838	7,276124405	6,882643049	7,366322214	6,62935662
DBT	6,044394119	6,14974712	5,491853096	6,845490051	6,741466986	5,700439718
DBX1	0	0	0	0	0	0
DBX2	0	0	0	0	0	0
DCAF10	7,434628228	7,129283017	7,285402219	8,011227255	7,451211112	8,06608919
DCAF11	7,584962501	7,74819285	7,357552005	7,62935662	7,807354922	7,055282436
DCAF12	7,707359132	7,693486957	7,721099189	7,727920455	7,417852515	7,977279923
DCAF12L1	0	0	0	0	0	0
DCAF12L2	0	0	0	0	0	0
DCAF13	6,741466986	6,714245518	6,62935662	6,22881869	6,189824559	6,754887502
DCAF15	4,247927513	1,584962501	3,807354922	2,807354922	3	0
DCAF16	7,562242424	7,50779464	7,375039431	7,982993575	8,129283017	8,189824559
DCAF17	5,700439718	5,882643049	5,906890596	6,658211483	6,741466986	6,169925001
DCAF4	4,169925001	4,087462841	3,321928095	4,700439718	4,95419631	3,807354922
DCAF4L1	3,700439718	2,584962501	3,700439718	7,14974712	5,857980995	7,491853096
DCAF4L2	0	0	0	2,321928095	1,584962501	2
DCAF5	7,988684687	8,092757141	7,930737338	8,50779464	8,339850003	8,204571144
DCAF6	6,754887502	6,523561956	6,554588852	7,375039431	7,22881869	7,276124405
DCAF7	9,2644426	9,319672121	9,157346935	9,622051819	9,700439718	9,52160044
DCAF8	6,614709844	7,087462841	6,95419631	7,658211483	7,807354922	7,409390936
DCAF8L1	0	0	0	0	0	0
DCAF8L2	0	0	0	0	0	0
DCAKD	4,321928095	3,906890596	4,64385619	2,807354922	5,087462841	0
DCBLD1	5,672425342	5,882643049	5,554588852	6,50779464	5,857980995	6,754887502
DCBLD2	3,321928095	4	3,169925001	2,807354922	1,584962501	0
DCC	2,321928095	0	2,584962501	2,321928095	3	5,554588852
DCD	0	0	0	1	0	0
DCDC1	2,584962501	1	3	3,807354922	4,247927513	0
DCDC2	2,321928095	0	0	0	0	2
DCDC2B	0	0	0	0	0	0
DCHS1	0	1	1	1	0	0
DCHS2	1	0	0	2,321928095	1,584962501	3,807354922
DCK	7,531381461	7,238404739	7,21916852	7,794415866	7,614709844	7,813781191
DCLK1	0	0	0	1	0	2
DCLK2	1	0	1	0	0	0
DCLK3	0	0	0	4,857980995	4	6,569855608
DCLRE1A	3,906890596	4,392317423	4,247927513	4,087462841	4,64385619	2
DCLRE1B	5,392317423	5,392317423	5,044394119	4,321928095	1,584962501	2
DCLRE1C	6,247927513	6,22881869	5,95419631	6,700439718	6,584962501	6,930737338
DCN	1,584962501	0	0	0	2,321928095	5,169925001

DCP1A	6,768184325	6,977279923	6,672425342	7,658211483	7,539158811	7,813781191
DCP1B	5,584962501	5,64385619	5,781359714	6,129283017	6,129283017	6,491853096
DCP2	8,071462363	7,707359132	8,044394119	8,044394119	7,599912842	8,204571144
DCPS	4,754887502	5,044394119	5,491853096	2,807354922	4,95419631	3,807354922
DCST1	0	1	0	0	0	0
DCST2	0	0	0	0	0	0
DCT	2,807354922	0	0	4,857980995	0	3,169925001
DCTD	6,247927513	6,22881869	6,475733431	6,50779464	6,087462841	6,169925001
DCTN1	7,055282436	6,727920455	6,882643049	5,882643049	5,930737338	5,554588852
DCTN2	6,832890014	7,159871337	7,189824559	7,247927513	7,159871337	7,442943496
DCTN3	5,426264755	5,554588852	4,857980995	5	5,459431619	0
DCTN4	6,392317423	6,584962501	6,169925001	6,266786541	6,285402219	6,169925001
DCTN5	5,882643049	5,95419631	5,95419631	7,375039431	7,209453366	7,515699838
DCTN6	6,768184325	5,977279923	6,129283017	6,62935662	6,658211483	7,209453366
DCTPP1	5,169925001	4,459431619	4,247927513	5,129283017	4,64385619	3,169925001
DCUN1D1	6,882643049	7,087462841	7,108524457	6,50779464	6,50779464	6,700439718
DCUN1D2	3,321928095	3,584962501	4,392317423	1	1,584962501	2
DCUN1D3	4	4,906890596	4,247927513	2,807354922	4,807354922	3,169925001
DCUN1D4	6,266786541	5,584962501	5,672425342	5,930737338	5,930737338	6,321928095
DCUN1D5	4,95419631	5	5,044394119	4,857980995	5,285402219	4,64385619
DCX	2,321928095	3,321928095	3,321928095	4,087462841	4,459431619	4,95419631
DCXR	5,285402219	5,584962501	5,247927513	2,807354922	3,321928095	0
DDA1	6,409390936	5,977279923	6,599912842	6,321928095	5,857980995	6,321928095
DDAH1	0	0	0	0	0	0
DDAH2	6,87036472	7,06608919	6,569855608	6,554588852	6,614709844	6,491853096
ddb1	8,74819285	8,845490051	8,939579214	8,797661526	8,82336724	8,758223215
ddb2	6	6,108524457	6,409390936	7,055282436	6,658211483	7,011227255
DDC	0	0	0	0	0	2
DDHD1	8,312882955	8,139551352	8,539158811	7,930737338	7,982993575	8,06608919
DDHD2	7,055282436	7,022367813	6,781359714	6,50779464	6,768184325	6,700439718
DDI1	0	0	0	0	0	0
DDI2	7,076815597	6,965784285	7,06608919	7,741466986	7,417852515	7,64385619
DDIT3	6,409390936	6,459431619	6,700439718	7,076815597	7,044394119	7,011227255
DDIT4	6,672425342	7,011227255	6,988684687	6,882643049	7,62935662	7,098032083
DDIT4L	1	0	0	0	0	0
DDN	0	0	0	0	2,321928095	3,807354922
DDO	2,321928095	2,807354922	3,169925001	0	0	0
DDOST	6,95419631	7,357552005	7,139551352	7,754887502	8,071462363	7,741466986
DDR1	4,523561956	4,584962501	5,169925001	4,700439718	4,247927513	0
DDR2	2,321928095	2,584962501	2	5,459431619	5,169925001	5,700439718
DDRGK1	5,807354922	5,807354922	6,22881869	6,189824559	5,857980995	5,95419631
DDT	4,247927513	4,64385619	4,700439718	2,807354922	3,700439718	0
DDTL	0	0	0	0	0	0
DDX1	8,276124405	8,159871337	8,011227255	8,515699838	8,299208018	8,54303182
DDX10	6,882643049	6,727920455	6,942514505	7,499845887	6,700439718	7,129283017
DDX11	0	2,321928095	2,584962501	1	1,584962501	0
DDX11L1	0	0	0	0	0	0
DDX11L10	0	0	0	0	0	0
DDX11L2	1	0	0	0	0	0
DDX11L9	0	0	0	0	0	0
DDX12P	0	0	0	0	0	0
DDX17	10,90839262	10,87036472	10,90162116	10,95927751	10,91288934	10,90839262
DDX18	9,560332834	9,487840034	9,398743692	9,812177306	9,891783703	9,805743872
DDX19A	6,569855608	6,658211483	6,741466986	7,022367813	7,22881869	6,491853096
DDX19B	5,426264755	5,727920455	5,857980995	2,321928095	5,64385619	5,357552005
DDX20	6,569855608	6,266786541	6,129283017	6,882643049	7,022367813	7,787902559
DDX21	10,31854281	10,20823436	10,29806257	10,42101286	10,28424575	10,66266838
DDX23	7,665335917	7,266786541	7,459431619	8,413627929	8,243173983	8,312882955

DDX24	9,243173983	9,233619677	9,321928095	9,828136484	9,824958741	9,982993575
DDX25	0	0	0	0	0	3,807354922
DDX27	8,784634846	8,77807713	8,77807713	8,912889336	8,77148947	8,447083226
DDX28	5,64385619	5,64385619	5,459431619	6,794415866	6,741466986	6,169925001
DDX31	5,554588852	5,169925001	4,857980995	6,584962501	6,285402219	6,409390936
DDX39A	6,491853096	6,569855608	6,599912842	6,845490051	7,044394119	6,965784285
DDX39B	4,321928095	3,584962501	5,169925001	5,754887502	5,285402219	6,06608919
DDX3X	9,764871591	9,717676423	9,71596199	9,436711542	9,63481105	9,558420713
DDX3Y	9,306061689	9,154818109	9,269126679	9,442943496	9,562242424	9,164906927
DDX4	0	0	0	0	1,584962501	0
DDX41	5,554588852	5,285402219	5,754887502	5,129283017	5,392317423	4,64385619
DDX42	7,813781191	7,741466986	7,754887502	8,647458426	8,370687407	8,622051819
DDX43	4,392317423	4,321928095	4	3,321928095	3,700439718	2
DDX46	9,832890014	9,577428828	9,688250309	9,86727874	9,63481105	9,786269628
DDX47	2,807354922	3,584962501	3,584962501	1	3	0
DDX49	5,523561956	5,832890014	5,857980995	5,700439718	5,459431619	5,700439718
DDX5	11,15165083	11,06272077	11,09539702	10,62570884	10,71681946	10,51569984
DDX50	8,344295908	8,238404739	8,108524457	8,592457037	8,503825738	8,379378367
DDX51	4,523561956	4,584962501	5	5	5,285402219	4,64385619
DDX52	7,6794801	7,707359132	7,50779464	7,960001932	8,022367813	7,46760555
DDX53	0	0	0	0	0	0
DDX54	6,95419631	7,209453366	6,95419631	7,055282436	7,22881869	7,055282436
DDX55	6,64385619	6,754887502	7,055282436	7,826548487	7,888743249	7,813781191
DDX56	5,129283017	5,169925001	5,321928095	6,266786541	6,285402219	6,569855608
DDX58	6,906890596	6,781359714	6,882643049	6,50779464	6,658211483	6,700439718
DDX59	6,768184325	6,832890014	6,87036472	6,459431619	6,247927513	6,62935662
DDX6	9,896332404	10	10,033423	10,59991284	10,67154107	10,68650053
DDX60	8,189824559	8,027905997	8,243173983	7,409390936	7,781359714	7,592457037
DDX60L	7,988684687	7,982993575	8,098032083	7,499845887	7,321928095	7,515699838
DEAF1	5,614709844	5,426264755	5,584962501	5,357552005	6,321928095	5,169925001
01-dic	1	1	1	2,321928095	3,321928095	3,807354922
DECR1	7,303780748	7,238404739	7,087462841	7,209453366	7,022367813	7,312882955
DECR2	0	1,584962501	2,584962501	0	0	2
DEDD	5,832890014	6,357552005	6,189824559	6,321928095	5,977279923	5,700439718
DEDD2	6,303780748	6,539158811	5,906890596	5,459431619	5,977279923	5,832890014
DEF6	5,882643049	6,285402219	6,189824559	6,977279923	6,247927513	6,820178962
DEF8	5,209453366	5	5,044394119	3,321928095	2,321928095	4,321928095
DEFA1	0	0	0	0	0	0
DEFA10P	0	0	0	0	0	0
DEFA1B	0	0	0	0	0	0
DEFA3	2,321928095	0	3,169925001	4,700439718	3,700439718	4,321928095
DEFA4	0	1	2	2,807354922	3,321928095	2
DEFA5	0	0	0	0	0	0
DEFA6	0	0	0	0	0	0
DEFB1	0	0	0	0	0	0
DEFB103A	0	0	0	0	0	0
DEFB103B	0	0	0	0	0	0
DEFB104A	0	0	0	0	0	0
DEFB104B	0	0	0	0	0	0
DEFB105A	0	0	0	0	0	0
DEFB105B	0	0	0	0	0	0
DEFB106A	0	0	0	0	0	0
DEFB106B	0	0	0	0	0	0
DEFB107A	0	0	0	0	0	0
DEFB107B	0	0	0	0	0	0
DEFB108B	0	0	0	0	0	0
DEFB110	0	0	0	0	0	0
DEFB112	0	0	0	0	0	0

DEFB113	0	0	1	0	1,584962501	2
DEFB114	0	0	0	0	0	0
DEFB115	0	0	0	0	0	0
DEFB116	0	0	0	0	0	0
DEFB118	0	1	0	2,807354922	0	0
DEFB119	0	0	0	0	0	0
DEFB121	0	0	0	0	0	0
DEFB122	0	0	0	0	0	0
DEFB123	0	0	0	0	0	0
DEFB124	0	0	0	0	0	2
DEFB125	0	0	0	0	0	0
DEFB126	0	0	0	0	0	0
DEFB127	1	0	0	0	0	0
DEFB128	0	0	0	0	0	0
DEFB129	0	0	0	0	0	0
DEFB132	0	0	0	0	0	0
DEFB133	0	0	0	0	0	0
DEFB134	0	0	0	0	0	0
DEFB135	0	0	0	0	0	0
DEFB136	0	0	0	0	0	0
DEFB4A	0	0	0	0	0	0
DEFB4B	0	0	0	0	0	0
DEFT1P	0	0	0	0	0	0
DEFT1P2	0	0	0	0	0	0
DEGS1	7,459431619	7,707359132	7,46760555	6,845490051	7,266786541	6,491853096
DEGS2	0	0	1	1	0	0
DEK	10,55554777	10,37937837	10,41890673	10,34762137	10,32080055	10,17866485
DENND1A	5,832890014	5,857980995	5,700439718	5,523561956	4,459431619	5,700439718
DENND1B	7,569855608	7,17990909	7,330916878	7,392317423	7,247927513	7,721099189
DENND1C	4,754887502	5,357552005	5,357552005	5,523561956	5,285402219	4,95419631
DENND2A	0	0	0	2,321928095	1,584962501	0
DENND2C	2,807354922	2,321928095	0	1	1,584962501	4,64385619
DENND2D	6,95419631	6,807354922	6,882643049	6,794415866	7,366322214	6,491853096
DENND3	5,930737338	5,727920455	5,754887502	5,523561956	5,64385619	5,357552005
DENND4A	7,693486957	7,6794801	7,700439718	8,14974712	8,266786541	8,330916878
DENND4B	7,098032083	7,409390936	7,599912842	7,727920455	7,569855608	6,754887502
DENND4C	6,14974712	5,807354922	6,266786541	6,459431619	6,918863237	6,247927513
DENND5A	6,599912842	6,442943496	6,409390936	7,055282436	6,741466986	7,169925001
DENND5B	4,64385619	4,169925001	4,169925001	6	5,285402219	5,95419631
DENR	7,948367232	8,038918989	7,882643049	8,252665432	8,447083226	8,312882955
DEPDC1	0	0	1,584962501	0	0	0
DEPDC1B	3	1,584962501	1	0	0	0
DEPDC4	1	0	1,584962501	2,321928095	0	3,169925001
DEPDC5	4,95419631	4,906890596	4,754887502	5,129283017	4,95419631	3,807354922
DEPDC7	3,700439718	2,807354922	1,584962501	3,321928095	0	0
DEPTOR	0	1,584962501	0	0	0	0
DERA	5,906890596	5,727920455	6	4,523561956	4,459431619	4,64385619
DERL1	8,174925683	8,129283017	7,948367232	7,851749041	8,071462363	8,108524457
DERL2	6,988684687	6,977279923	6,569855608	7,076815597	7,348728154	7,209453366
DERL3	1,584962501	0	0	0	0	0
DES	0	0	0	0	0	0
DET1	3,584962501	4,321928095	3,807354922	4,700439718	5,087462841	4,64385619
DEXI	5,209453366	5,882643049	5,426264755	6	6,044394119	5,169925001
DFFA	6,321928095	6,189824559	6,459431619	6,906890596	7,044394119	7,276124405
DFFB	6,22881869	5,857980995	6,06608919	6,459431619	6,321928095	5,95419631
DGAT1	4,392317423	3,906890596	4,700439718	2,321928095	3,321928095	0
DGAT2	1,584962501	3,321928095	3,169925001	2,807354922	3	4,321928095
DGAT2L6	0	0	0	0	0	0

DGCR10	0	0	0	0	0	0
DGCR11	3	2,807354922	2,584962501	0	0	0
DGCR2	7,247927513	7,303780748	6,95419631	6,95419631	7,569855608	7,312882955
DGCR5	1	0	0	0	0	0
DGCR6	0	0	0	0	0	0
DGCR6L	3,807354922	4,169925001	2,807354922	0	4,459431619	2
DGCR8	5,727920455	5,807354922	6,247927513	5,930737338	5,781359714	4,64385619
DGCR9	1	0	0	0	0	0
DGKA	6,906890596	6,882643049	7,392317423	7,727920455	7,584962501	7,442943496
DGKB	2,584962501	1	1,584962501	0	0	5,169925001
DGKD	8,243173983	8,317412614	8,592457037	8,930737338	8,82336724	8,463524373
DGKE	6,741466986	6,409390936	7	6,584962501	6,700439718	6,569855608
DGKG	1	3,700439718	2,807354922	2,321928095	3,321928095	4,321928095
DGKH	7,159871337	7,209453366	7,312882955	6,266786541	5,727920455	5,169925001
DGKI	1,584962501	3	1,584962501	3,807354922	4	4,64385619
DGKK	1	0	0	0	0	0
DGKQ	6,285402219	6	6,087462841	5,882643049	5,285402219	5,554588852
DGKZ	7,209453366	7,977279923	8,339850003	8,224001674	8,266786541	7,622051819
DGUOK	6,857980995	7,087462841	6,62935662	8,011227255	7,965784285	7,942514505
DHCR24	3,700439718	4,169925001	4,169925001	1	1,584962501	0
DHCR7	3,584962501	3	3,169925001	1	2,321928095	0
DHDDS	5,700439718	5,781359714	5,807354922	4,700439718	4,95419631	2
DHDH	0	0	0	2,807354922	3	3,169925001
DHFR	4,321928095	4,169925001	3,700439718	4,087462841	4,247927513	3,807354922
DHH	0	0	0	1	0	2
DHODH	3	3,584962501	3,584962501	3,807354922	3,700439718	3,807354922
DHPS	4,754887502	3,906890596	3,584962501	4,087462841	4,64385619	2
DHRS1	5,491853096	5,930737338	4,857980995	6,129283017	6,189824559	3,807354922
DHRS11	1,584962501	1	3	0	1,584962501	0
DHRS12	4,392317423	4,169925001	4	2,321928095	4	3,169925001
DHRS13	5	5,727920455	5,584962501	4,321928095	5,459431619	4,321928095
DHRS2	1,584962501	0	2	3,321928095	0	3,169925001
DHRS3	5,426264755	5,584962501	5,614709844	6,129283017	6,539158811	6,247927513
DHRS4	1	1,584962501	1	0	2,321928095	0
DHRS4L2	2,807354922	3,321928095	2,584962501	0	2,321928095	0
DHRS7	7,754887502	7,515699838	7,721099189	7,266786541	7,17990909	6,700439718
DHRS7B	4,754887502	5,129283017	4,95419631	2,321928095	2,321928095	0
DHRS7C	0	0	0	0	0	0
DHRS9	4,523561956	4,584962501	3,906890596	1	0	2
DHRSX	6,672425342	6,882643049	6,672425342	5,754887502	5,977279923	5,169925001
DHTKD1	6,930737338	6,930737338	6,988684687	6,584962501	6,807354922	5,832890014
DHX15	7,700439718	7,741466986	7,787902559	8,409390936	8,159871337	8,447083226
DHX16	6,62935662	6,459431619	6,50779464	6,820178962	6,768184325	6,409390936
DHX29	7,74819285	7,339850003	7,700439718	7,741466986	7,434628228	7,832890014
DHX30	6,392317423	6,14974712	6,459431619	6,700439718	6,768184325	7,129283017
DHX32	4,169925001	4,321928095	4,95419631	2,321928095	4,459431619	3,807354922
DHX33	6,409390936	6,569855608	6,129283017	6,459431619	6,539158811	6,409390936
DHX34	4	4	3,807354922	3,321928095	1,584962501	2
DHX35	4,64385619	4,392317423	4,247927513	4,700439718	5,087462841	2
DHX36	9,105908509	9,005624549	8,948367232	9,627533884	9,556506055	9,792790294
DHX37	3	3,700439718	3,906890596	4,321928095	2,321928095	3,169925001
DHX38	7,562242424	7,936637939	8,049848549	8,139551352	8,011227255	7,894817763
DHX40	7,087462841	7,475733431	6,965784285	7,392317423	7,768184325	7,491853096
DHX57	5,614709844	5,95419631	5,754887502	5,129283017	5,285402219	3,169925001
DHX58	5,044394119	4,95419631	4,95419631	5	4	4,64385619
DHX8	6,189824559	6,266786541	6,06608919	5,754887502	6,409390936	5,554588852
DHX9	9,103287808	8,982993575	8,832890014	9,330916878	9,192292814	9,326429487
DIABLO	1	0	0	0	0	0

DIAPH1	9,689997971	9,83447105	9,693486957	9,661778098	9,501837185	9,529430554
DIAPH2	6,768184325	7,06608919	6,832890014	6,189824559	5,554588852	4,64385619
DIAPH3	0	0	0	0	1,584962501	0
DICER1	9,535275377	9,451211112	9,577428828	8,495855027	8,523561956	8,700439718
DICER1-AS1	2,807354922	3	3,321928095	3,321928095	4,64385619	4,321928095
DIDO1	7,531381461	7,686500527	7,62935662	8,357552005	7,832890014	8,204571144
DIMT1	5,807354922	6,06608919	6,044394119	4,523561956	5,64385619	0
DIO1	0	0	0	0	0	0
DIO2	0	1,584962501	0	1	0	3,169925001
DIO3	0	0	0	0	0	0
DIO3OS	0	0	0	0	0	0
DIP2A	7,794415866	7,768184325	8,049848549	8,184875343	8,082149041	8,413627929
DIP2B	7,06608919	7,17990909	7,276124405	7,022367813	6,807354922	6,409390936
DIP2C	3,700439718	3,906890596	3,906890596	5,523561956	4,95419631	4,64385619
DIRAS1	0	0	0	0	0	0
DIRAS2	0	0	0	0	0	0
DIRAS3	0	1	0	0	0	0
DIRC1	0	0	0	0	0	0
DIRC2	6,108524457	5,857980995	6	1	2,321928095	2
DIRC3	2,321928095	0	2	3,321928095	4,247927513	4,321928095
DIS3	8,005624549	7,851749041	7,948367232	8,54303182	8,491853096	8,816983623
DIS3L	5,523561956	5,321928095	5,169925001	5	5,781359714	5,95419631
DIS3L2	5,392317423	5,64385619	5,357552005	6,06608919	6,189824559	6,247927513
DISC1	3,906890596	3,321928095	4,169925001	4,321928095	2,321928095	5,169925001
DISP1	2,321928095	0	0	0	2,321928095	0
DISP2	1,584962501	2,584962501	2	4,857980995	4,95419631	5,700439718
DIXDC1	3,459431619	3,807354922	3,807354922	4,087462841	4	3,169925001
DKC1	7,658211483	7,8008999	7,960001932	8,103287808	8,285402219	8,312882955
DKK1	0	0	0	0	0	0
DKK2	0	1	1,584962501	0	0	0
DKK3	2,584962501	2,584962501	1,584962501	3,807354922	3,321928095	4,95419631
DKK4	0	0	0	0	0	0
DKKL1	0	0	0	0	0	0
DLAT	5,807354922	6,14974712	6	5,129283017	4,807354922	5,554588852
DLC1	3	1,584962501	3,584962501	4,321928095	4,247927513	4,95419631
DLD	7,434628228	7,17990909	7,159871337	7,375039431	7,451211112	7,247927513
DLEC1	2,584962501	0	1	0	0	0
DLEU1	3,459431619	4	4,169925001	5,129283017	5,285402219	5,554588852
DLEU2	6,087462841	5,614709844	6,087462841	5,832890014	6,285402219	6,169925001
DLEU2L	4,523561956	4,754887502	4,700439718	6,794415866	5,781359714	6,409390936
DLEU7	5,781359714	5,882643049	5,584962501	2,807354922	4	4,95419631
DLG1	7,651051691	7,169925001	7,700439718	7,14974712	7,417852515	7,622051819
DLG2	3,321928095	3,700439718	4,169925001	6,375039431	5,930737338	7,276124405
DLG3	5,247927513	4,700439718	4,700439718	5,523561956	6,285402219	4,95419631
DLG4	4,857980995	5,930737338	5,781359714	5,700439718	5,727920455	5,700439718
DLG5	4,321928095	2,584962501	2,584962501	4,523561956	3,700439718	4,95419631
DLGAP1	0	0	0	0	0	2
DLGAP2	1	1	2	2,807354922	2,321928095	0
DLGAP3	0	0	0	0	0	0
DLGAP4	5,554588852	5,584962501	5,700439718	4,523561956	4,95419631	3,807354922
DLGAP5	1	1,584962501	0	0	0	0
DLK1	0	0	0	0	0	0
DLK2	0	0	0	0	0	0
DLL1	4,459431619	5,087462841	4,247927513	4,087462841	5,087462841	3,169925001
DLL3	0	0	0	0	1,584962501	0
DLL4	0	0	0	0	0	0
DLST	3,906890596	4,584962501	4,523561956	3,321928095	4,247927513	4,321928095
DLX1	0	0	0	0	0	0

DLX2	0	0	0	0	0	0
DLX3	0	0	0	0	3,321928095	0
DLX4	0	1	0	3,321928095	1,584962501	2
DLX5	0	0	0	0	0	0
DLX6	1	0	0	0	1,584962501	0
DLX6-AS1	2,584962501	1	2	3,321928095	0	3,169925001
DMAP1	4,64385619	4,392317423	3,906890596	4,523561956	5,169925001	3,807354922
DMBT1	0	0	0	0	0	0
DMBX1	0	0	0	0	0	0
DMC1	0	0	0	0	0	2
DMD	4,392317423	4,087462841	4,64385619	4,523561956	5,087462841	4,321928095
DMGDH	0	0	0	0	0	2
DMKN	0	0	0	1	0	0
DMP1	0	0	0	0	0	0
DMPK	1,584962501	0	1	2,321928095	3	2
DMRT1	0	0	0	0	0	0
DMRT2	0	0	0	0	0	0
DMRT3	0	0	0	0	0	0
DMRTA1	0	0	0	0	0	0
DMRTA2	0	0	0	1	2,321928095	4,321928095
DMRTB1	0	0	0	0	0	0
DMRTC1	0	0	0	0	0	0
DMRTC1B	0	0	0	0	0	0
DMRTC2	1	0	0	0	0	0
DMTF1	7,499845887	7,321928095	7,794415866	7,971543554	7,693486957	8,108524457
DMWD	4,247927513	4	4,584962501	4,857980995	2,321928095	3,807354922
DMXL1	8,022367813	7,845490051	8	7,599912842	7,62935662	7,515699838
DMXL2	8,930737338	8,87958325	9,124121312	5,357552005	5,169925001	5,700439718
DNA2	3,584962501	3,700439718	2,807354922	4,857980995	1,584962501	5,357552005
DNAAF1	1	2,584962501	0	2,807354922	3,700439718	0
DNAAF2	6,584962501	6,50779464	6,714245518	6,22881869	6,459431619	6,569855608
DNAH1	3,321928095	2,807354922	3,584962501	4,087462841	2,321928095	3,807354922
DNAH10	0	1,584962501	0	3,321928095	3,700439718	3,807354922
DNAH11	1	1	1,584962501	3,321928095	4,459431619	3,807354922
DNAH12	3,459431619	0	0	6,409390936	5,285402219	7,375039431
DNAH14	3,321928095	3	2	4,087462841	3,700439718	4,95419631
DNAH17	0	0	0	5,700439718	3,700439718	6,754887502
DNAH2	0	0	0	1	2,321928095	0
DNAH3	0	0	0	2,321928095	0	2
DNAH5	0	1	0	2,321928095	3	3,169925001
DNAH6	1,584962501	0	2	4,857980995	4,247927513	3,169925001
DNAH7	5,044394119	4,169925001	4,087462841	6,845490051	6,321928095	7,491853096
DNAH8	3	1,584962501	2,807354922	4,321928095	4,459431619	4,95419631
DNAH9	0	0	0	0	0	0
DNAI1	0	0	0	0	1,584962501	0
DNAI2	0	0	0	0	0	3,807354922
DNAJA1	9,497851837	9,330916878	9,381542951	8,689997971	9,060695932	9,315149562
DNAJA1P5	0	0	0	0	0	0
DNAJA2	7,832890014	7,95419631	7,876516947	8,392317423	8,503825738	8,807354922
DNAJA3	5,95419631	6,087462841	5,977279923	6,882643049	6,700439718	6,820178962
DNAJA4	6,22881869	5,977279923	6,087462841	5,832890014	4,807354922	5,95419631
DNAJB1	9,049848549	8,854868383	8,515699838	8,906890596	9,011227255	9,087462841
DNAJB11	8,46760555	8,710806434	8,599912842	7,554588852	7,707359132	7,622051819
DNAJB12	7,011227255	6,523561956	6,820178962	5,357552005	5,727920455	5,357552005
DNAJB13	0	0	0	2,321928095	1,584962501	0
DNAJB14	9,057991723	8,864186145	8,980139578	9,139551352	9,071462363	9,326429487
DNAJB2	5,614709844	5,523561956	5,357552005	6,06608919	6,247927513	4,64385619
DNAJB3	0	0	0	0	0	0

DNAJB4	5,523561956	4,523561956	5,491853096	5,930737338	5,727920455	5,700439718
DNAJB5	3	2,807354922	2,807354922	0	0	0
DNAJB6	7,768184325	7,658211483	7,912889336	8,924812504	8,665335917	9,164906927
DNAJB7	1	0	0	1	0	0
DNAJB8	0	0	0	0	0	0
DNAJB8-AS1	0	0	0	0	0	0
DNAJB9	7,459431619	7,238404739	7,118941073	7,426264755	7,64385619	6,882643049
DNAJC1	8,103287808	8,098032083	7,977279923	7,813781191	8,055282436	7,672425342
DNAJC10	8,577428828	8,483815777	8,599912842	8,442943496	8,299208018	8,647458426
DNAJC11	5,321928095	5,554588852	5	5,523561956	6,129283017	5,169925001
DNAJC12	1	0	1	0	0	0
DNAJC13	7,622051819	7,531381461	7,459431619	6,820178962	7,108524457	6,930737338
DNAJC14	5,584962501	5,285402219	5,209453366	4,321928095	4,459431619	3,169925001
DNAJC15	7,707359132	7,651051691	7,672425342	6,882643049	7,17990909	6,62935662
DNAJC16	6,584962501	6,894817763	6,339850003	6,584962501	6,882643049	6,62935662
DNAJC17	3,700439718	4,584962501	4,087462841	4,857980995	3,700439718	4,95419631
DNAJC18	3,906890596	3,321928095	4,523561956	4,321928095	4,247927513	5,169925001
DNAJC19	7,238404739	7,276124405	7,22881869	6,700439718	7,400879436	6,491853096
DNAJC2	8,388017285	8,30833903	8,344295908	8,321928095	8,194756854	8,129283017
DNAJC21	8,87036472	8,700439718	8,707359132	8,86727874	9,084808388	8,584962501
DNAJC22	0	1	0	0	0	0
DNAJC24	4,95419631	5,087462841	5	5,614709844	5,459431619	4,64385619
DNAJC25	6,894817763	6,375039431	6,285402219	6,906890596	6,832890014	6,06608919
DNAJC25-GNG10	0	0	0	0	0	0
DNAJC27	5,672425342	5,614709844	5,392317423	6,409390936	6,857980995	6,882643049
DNAJC27-AS1	1,584962501	0	0	4,523561956	1,584962501	0
DNAJC28	4,392317423	4	3,807354922	1	0	0
DNAJC3	9,658211483	9,447083226	9,511752654	8,396604781	8,503825738	8,744833837
DNAJC30	5,209453366	5,169925001	5,209453366	6,768184325	6,087462841	7,169925001
DNAJC4	4,857980995	5,044394119	5,169925001	5,129283017	5,169925001	2
DNAJC5	7,339850003	7,539158811	7,54689446	7,918863237	7,62935662	7,055282436
DNAJC5B	4	4,754887502	3,807354922	0	0	0
DNAJC5G	0	0	0	0	0	0
DNAJC6	3,321928095	3,584962501	4,169925001	4,857980995	4,95419631	5,700439718
DNAJC7	8,071462363	8,011227255	8,016808288	7,971543554	7,994353437	8,204571144
DNAJC8	8,611024797	8,562242424	8,499845887	8,751544059	8,882643049	8,845490051
DNAJC9	6,189824559	6,303780748	5,906890596	5,754887502	6,129283017	5,700439718
DNAL1	4,700439718	4,169925001	3,584962501	4,523561956	4,459431619	4,321928095
DNAL4	6,022367813	6	5,906890596	6,50779464	6,832890014	6,06608919
DNAL11	0	1	0	0	0	2
DNASE1	6,129283017	5,95419631	6,426264755	7,813781191	7,383704292	7,942514505
DNASE1L1	5,807354922	5,169925001	4,95419631	3,807354922	3,700439718	3,169925001
DNASE1L2	0	0	0	0	0	0
DNASE1L3	1	1,584962501	2	1	2,321928095	0
DNASE2	6,906890596	7,14974712	6,820178962	5,459431619	5,392317423	4,321928095
DNASE2B	0	0	0	0	0	0
DND1	0	1,584962501	0	1	2,321928095	0
DNER	0	1	0	2,321928095	3,700439718	3,169925001
DNHD1	3,584962501	4,700439718	4,584962501	6,794415866	6,584962501	7,312882955
DNLZ	0	1	0	0	0	0
DNM1	1	0	0	0	0	0
DNM1L	6,475733431	6,62935662	6,426264755	6,409390936	6,129283017	6,321928095
DNM1P35	0	0	0	0	0	0
DNM1P46	0	0	0	0	0	0
DNM2	6,554588852	6,754887502	7,011227255	7,392317423	7,523561956	7,46760555
DNM3	5,247927513	5	5,169925001	6,95419631	6,857980995	7,64385619
DNM3OS	0	0	0	0	0	0
DNMBP	4	3,584962501	3,700439718	2,807354922	2,321928095	2

DNMBP-AS1	0	0	0	0	0	2
DNMT1	9,30833903	9,28771238	9,303780748	8,257387843	8,233619677	8,392317423
DNMT3A	6,554588852	6,442943496	6,554588852	6,977279923	7,139551352	6,754887502
DNMT3B	0	1	0	0	0	0
DNMT3L	0	0	0	1	0	2
DNPEP	6,375039431	6,554588852	6,62935662	5,459431619	5,554588852	4,95419631
DNTT	0	0	0	2,321928095	0	2
DNTTIP1	6,22881869	6,459431619	6,475733431	5,700439718	6,321928095	6,569855608
DNTTIP2	8,77148947	8,797661526	8,577428828	9,199672345	9,154818109	9,348728154
DOC2A	0	0	0	0	0	0
DOC2B	0	0	0	0	2,321928095	0
DOC2GP	0	0	0	0	0	0
DOCK1	1,584962501	3,700439718	2,584962501	0	0	0
DOCK10	9,087462841	9,076815597	9,09011242	8,810571635	8,948367232	8,558420713
DOCK11	8,321928095	8,422064766	8,459431619	8,503825738	8,266786541	8,189824559
DOCK2	7,813781191	7,761551232	7,936637939	7,475733431	7,285402219	7,442943496
DOCK3	1	3	2	5,129283017	5,169925001	5,169925001
DOCK4	8,417852515	8,214319121	8,46760555	4,523561956	5,392317423	5,95419631
DOCK5	6,754887502	6,459431619	6,303780748	5,832890014	4,64385619	6,247927513
DOCK6	0	0	0	1	0	0
DOCK7	5,321928095	5,554588852	5,392317423	7,129283017	6,882643049	7,741466986
DOCK8	8,523561956	8,581200582	8,696967526	8,700439718	8,434628228	8,603626345
DOCK9	7,169925001	7,375039431	7,055282436	8,276124405	7,948367232	8,087462841
DOHH	3	4	2	0	0	4,321928095
DOK1	6,189824559	6,62935662	6,266786541	4,523561956	5,459431619	3,807354922
DOK2	6,022367813	6,06608919	6,087462841	2,807354922	4	0
DOK3	6,22881869	6,475733431	6,426264755	4,857980995	4,64385619	5,169925001
DOK4	2,321928095	1	1	2,321928095	0	0
DOK5	0	0	0	1	0	0
DOK6	1,584962501	2,584962501	2,807354922	5,247927513	4,95419631	5,95419631
DOK7	0	0	0	0	0	0
DOLK	3,584962501	4,392317423	3,169925001	1	1,584962501	0
DOLPP1	5,491853096	5,523561956	5,459431619	4,321928095	4	0
DONSON	4,700439718	3,700439718	4	5,523561956	3,700439718	4,64385619
DOT1L	5,523561956	5,930737338	6,189824559	4,700439718	4,247927513	3,169925001
DPAGT1	6,409390936	6,375039431	6,189824559	5,614709844	5,459431619	4,64385619
DPCD	1	1	2,807354922	0	0	0
DPEP1	0	0	0	0	0	0
DPEP2	4,857980995	4,584962501	4,906890596	5,129283017	4,459431619	5,554588852
DPEP3	0	0	0	0	0	3,169925001
DPF1	0	0	0	0	1,584962501	0
DPF2	6,087462841	6,599912842	6,321928095	6,882643049	6,807354922	6,882643049
DPF3	0	2,321928095	1	2,807354922	0	2
DPH1	0	0	0	0	0	0
DPH2	5,044394119	5,392317423	5,491853096	6,06608919	5,781359714	5,169925001
DPH3	6,554588852	6,189824559	6,129283017	6,189824559	6,247927513	6,700439718
DPH3P1	0	0	0	0	0	0
DPH5	6,06608919	6,442943496	6,22881869	7,864186145	7,851749041	8,049848549
DPM1	7,912889336	8,060695932	7,864186145	7,930737338	7,994353437	7,832890014
DPM2	4,459431619	4,459431619	3,584962501	5,700439718	5,285402219	5,95419631
DPM3	5,930737338	5,857980995	5,614709844	6,375039431	6,539158811	5,700439718
DPP10	3	2,584962501	2,584962501	4,087462841	5,64385619	5,95419631
DPP3	4,700439718	4,754887502	4,392317423	0	0	0
DPP4	5,426264755	5,044394119	4,754887502	6,129283017	6,285402219	5,169925001
DPP6	0	0	2	3,321928095	4,247927513	3,807354922
DPP7	5,807354922	6,169925001	6,087462841	6	6,375039431	6,247927513
DPP8	8,675957033	8,413627929	8,361943774	8,816983623	8,592457037	8,885696373
DPP9	6,375039431	6,658211483	6,820178962	6,820178962	6,614709844	7,098032083

DPPA2	0	0	0	0	0	0
DPPA3	0	0	0	0	0	2
DPPA4	2,321928095	1,584962501	2	0	0	0
DPPA5	0	0	0	0	0	0
DPRX	0	0	0	0	0	0
DPRXP4	3,459431619	2,321928095	2,584962501	0	0	0
DPT	0	0	0	0	0	0
DPY19L1	6,807354922	6,894817763	6,754887502	7,076815597	6,832890014	6,820178962
DPY19L1P1	0	1	0	2,807354922	0	0
DPY19L2	0	1	1	0	0	0
DPY19L2P1	1	0	0	0	0	2
DPY19L2P2	1	2,584962501	2,584962501	0	3	0
DPY19L2P3	2,321928095	0	0	0	1,584962501	0
DPY19L2P4	0	0	0	0	0	0
DPY19L3	5,285402219	4,754887502	4,584962501	5,247927513	4,64385619	0
DPY19L4	6,022367813	5,807354922	5,614709844	6,266786541	5,857980995	6,06608919
DPY30	6,50779464	6,569855608	6,247927513	6,06608919	6,247927513	4,64385619
DPYD	7,900866808	7,686500527	7,845490051	6,129283017	6,321928095	6,754887502
DPYS	2,321928095	2,584962501	1	0	0	0
DPYSL2	9,144658243	9,044394119	8,842350343	6,50779464	6,768184325	5,95419631
DPYSL3	2,807354922	2,321928095	2	3,321928095	4,807354922	2
DPYSL4	0	0	0	0	0	0
DPYSL5	0	0	0	0	0	0
DQX1	0	0	0	0	0	0
DR1	8,854868383	8,758223215	8,807354922	8,816983623	8,894817763	8,87036472
DRAM1	8,103287808	8,266786541	8,098032083	5	5,169925001	4,95419631
DRAM2	7,257387843	7,357552005	7,055282436	7,247927513	7,383704292	6,930737338
DRAP1	7,714245518	7,876516947	8,118941073	7,076815597	7,417852515	7,247927513
DRD1	0	0	0	0	0	0
DRD2	0	0	0	0	0	0
DRD3	0	0	0	0	0	0
DRD4	1	0	0	0	0	0
DRD5	0	0	0	0	0	0
DRG1	5,523561956	5,977279923	5,906890596	5,832890014	5,554588852	4,95419631
DRG2	5,209453366	5,044394119	4,95419631	5,523561956	5,285402219	4,95419631
DRGX	0	0	0	1	0	0
DROSHA	6,894817763	6,942514505	6,781359714	7,839203788	7,768184325	7,741466986
DRP2	0	0	0	0	0	0
DSC1	2,321928095	2,584962501	1,584962501	2,321928095	0	0
DSC2	5,392317423	5,087462841	5	0	1,584962501	2
DSC3	0	0	0	0	0	0
DSCAM	1	0	0	3,807354922	3,321928095	4,95419631
DSCAM-AS1	0	0	0	0	0	0
DSCAML1	0	0	0	0	0	0
DSCC1	2,584962501	0	0	0	0	0
DSCR10	0	0	0	0	0	0
DSCR4	0	0	0	0	0	0
DSCR8	0	0	0	2,321928095	3,321928095	4,321928095
DSCR9	0	0	0	0	0	0
DSE	8,426264755	8,430452552	8,174925683	7,129283017	6,614709844	7,247927513
DSEL	1	0	1	1	1,584962501	2
DSG1	1	0	0	0	0	3,169925001
DSG2	1,584962501	1	2,807354922	0	0	0
DSG3	0	0	0	0	0	0
DSG4	0	1	0	0	0	0
DSN1	5,832890014	5,95419631	5,169925001	4,523561956	4,95419631	0
DSP	2,807354922	1	2	1	3,321928095	3,169925001
DSPP	1	0	0	0	0	0

DST	5,044394119	5,087462841	5,169925001	7,169925001	7,17990909	7,515699838
DSTN	8,113742166	8,055282436	7,977279923	7,62935662	7,820178962	7,721099189
DSTNP2	4,169925001	4,087462841	4,584962501	2,807354922	2,321928095	3,169925001
DSTYK	6,942514505	7,199672345	7,033423002	6,906890596	7,475733431	7,011227255
DTD1	5,832890014	6,375039431	5,727920455	5,832890014	5,977279923	5,700439718
DTHD1	5,169925001	4	4,754887502	6,409390936	6,539158811	6,820178962
DTL	1	3	2	3,321928095	3,321928095	3,807354922
DTNA	3,906890596	3,584962501	3,321928095	5,357552005	4,64385619	5,700439718
DTNB	3,321928095	3,169925001	3,584962501	2,321928095	1,584962501	0
DTNBP1	7,569855608	7,658211483	7,741466986	7,592457037	7,209453366	7,562242424
DTWD1	6,14974712	6,321928095	6,22881869	7,098032083	6,807354922	7,442943496
DTWD2	4,459431619	4,95419631	4,754887502	2,321928095	1,584962501	0
DTX1	2,321928095	1	1,584962501	2,321928095	3	0
DTX2	5,554588852	5,285402219	5,357552005	4,857980995	4,247927513	3,169925001
DTX2P1-UPK3BP1-PMS2P11	0	0	0	0	0	0
DTX3	4,459431619	4,700439718	3,700439718	4,087462841	4,807354922	3,169925001
DTX3L	9,038918989	9,174925683	9,202123824	8,703903573	8,894817763	9,28077077
DTX4	3,906890596	4,169925001	3,807354922	0	3	0
DTYMK	3,906890596	4,584962501	4,087462841	2,321928095	3	3,169925001
DUOX1	0	0	0	0	0	0
DUOX2	1,584962501	2,584962501	3	5,129283017	5,285402219	5,554588852
DUOXA1	0	0	0	2,807354922	3	3,807354922
DUOXA2	0	0	0	0	0	0
DUPD1	0	0	0	0	0	0
DUS1L	5,357552005	5,285402219	5,357552005	6,129283017	5,727920455	5,700439718
DUS3L	4	3,807354922	4,392317423	2,807354922	3,700439718	3,169925001
DUS4L	5,672425342	5,392317423	5,727920455	6,554588852	6,285402219	6,569855608
DUSP1	9,273795599	9,221587121	8,77807713	5,247927513	6,087462841	4,95419631
DUSP10	7,087462841	7,392317423	7,033423002	7,285402219	7,044394119	7,46760555
DUSP11	6,700439718	6,614709844	6,22881869	6,700439718	7,044394119	5,95419631
DUSP12	6,044394119	5,807354922	5,523561956	6,62935662	6,614709844	5,357552005
DUSP13	0	0	0	0	0	0
DUSP14	3,700439718	4,087462841	4,459431619	0	0	0
DUSP15	0	0	0	0	0	0
DUSP16	8,991521846	9,011227255	8,903881846	9,891783703	9,897845456	9,789533645
DUSP18	5,247927513	5,285402219	4,700439718	3,807354922	3,700439718	0
DUSP19	3,321928095	2,807354922	3,906890596	3,807354922	4,247927513	5,169925001
DUSP2	7,768184325	7,599912842	7,392317423	6,820178962	7	6,882643049
DUSP21	0	0	0	0	0	0
DUSP22	7,599912842	7,888743249	7,813781191	7,62935662	7,707359132	7,46760555
DUSP23	5,584962501	5,64385619	5,700439718	0	1,584962501	2
DUSP26	0	0	0	0	0	0
DUSP27	0	0	0	0	0	0
DUSP28	4,523561956	4,700439718	5,169925001	6,189824559	5,727920455	6,169925001
DUSP3	7,700439718	7,584962501	7,77478706	5,129283017	5,392317423	4,321928095
DUSP4	7	7,209453366	7,285402219	7,839203788	7,977279923	7,787902559
DUSP5	6,569855608	6,727920455	6,754887502	5,930737338	6,832890014	6,700439718
DUSP6	10,99576715	11,13249973	10,87958325	6,845490051	7,888743249	7,312882955
DUSP7	5,977279923	6,087462841	6,108524457	6,22881869	6,285402219	5,95419631
DUSP8	5,321928095	5,357552005	4,64385619	5,882643049	5,459431619	6,569855608
DUSP9	0	0	0	0	0	0
DUT	9,068778278	8,930737338	8,882643049	9,693486957	9,529430554	9,571752644
DUX4	0	0	0	0	0	0
DUX4L2	0	0	0	0	0	0
DUX4L3	0	0	0	0	0	0
DUX4L4	0	0	0	0	0	0
DUX4L5	0	0	0	0	0	0
DUX4L6	0	0	0	0	0	0

DUX4L7	0	0	0	0	0	0
DUXA	0	0	0	0	0	0
DVL1	5,523561956	5,392317423	5,727920455	4,523561956	4,807354922	4,64385619
DVL2	5,727920455	5,807354922	6	5,754887502	5,930737338	4,95419631
DVL3	6,409390936	6,686500527	6,554588852	6,459431619	6,459431619	5,357552005
DYDC1	0	0	0	0	0	0
DYDC2	0	0	0	0	0	0
DYM	5,672425342	5,321928095	5,807354922	5,754887502	5,857980995	4,95419631
DYNC1H1	9,036173613	9,103287808	9,485829309	9,095397023	8,933690655	9,131856961
DYNC1I1	2,321928095	0	0	2,807354922	2,321928095	0
DYNC1I2	7,665335917	7,894817763	7,693486957	7,794415866	7,965784285	7,994353437
DYNC1LI1	7,159871337	7,209453366	7,033423002	6,189824559	6,832890014	6,409390936
DYNC1LI2	8,487840034	8,400879436	8,447083226	8,224001674	8,370687407	8,584962501
DYNC2H1	4,906890596	4,857980995	5,044394119	4,700439718	5,554588852	3,169925001
DYNC2LI1	4,169925001	3,321928095	3,700439718	3,807354922	4,807354922	4,321928095
DYNLL1	8,73809226	8,654636029	8,447083226	7,475733431	7,74819285	7,491853096
DYNLL2	6,700439718	7,022367813	6,781359714	7,169925001	7,285402219	5,95419631
DYNLRB1	6,794415866	6,409390936	6,392317423	6,882643049	6,584962501	6,569855608
DYNLRB2	0	0	0	0	1,584962501	0
DYNLT1	7,285402219	7,098032083	7	6,189824559	6,832890014	7,129283017
DYNLT3	7,357552005	7,357552005	7,46760555	7,169925001	7,22881869	6,882643049
DYRK1A	8,832890014	9	8,971543554	9,622051819	9,575539247	9,776433032
DYRK1B	3	3,700439718	3,584962501	0	3,321928095	3,169925001
DYRK2	9,457380879	9,535275377	9,523561956	9,759888183	9,695228291	9,659995892
DYRK3	1	0	0	0	0	0
DYRK4	5	4,754887502	5,357552005	4,700439718	4,64385619	3,807354922
DYSF	1,584962501	2,807354922	1	0	0	0
DYTN	0	0	0	0	0	0
DZANK1	2,807354922	3,807354922	3,584962501	0	3	3,807354922
DZIP1	0	0	0	2,807354922	4	4,321928095
DZIP1L	2,807354922	3	3,807354922	0	0	0
DZIP3	7,17990909	6,807354922	7,033423002	7,971543554	7,693486957	7,965784285
E2F1	0	2,807354922	1,584962501	2,807354922	0	0
E2F2	2,584962501	3	3,321928095	0	0	0
E2F3	8,751544059	8,499845887	8,577428828	8,930737338	8,888743249	9,019590728
E2F4	6,965784285	7,129283017	6,965784285	7,321928095	7,087462841	7,055282436
E2F5	4,392317423	4,754887502	5	5,700439718	5,554588852	4,64385619
E2F6	5,247927513	4,906890596	4,584962501	4,321928095	5,64385619	5,169925001
E2F7	1	1,584962501	0	0	0	2
E2F8	0	0	0	0	0	0
E4F1	5	4,169925001	5,129283017	5,523561956	4,95419631	2
EAF1	7,451211112	7,108524457	7,139551352	7,554588852	7,539158811	7,721099189
EAF2	6,022367813	4,95419631	5,491853096	5,700439718	5,169925001	6,409390936
EAPP	8,071462363	8,022367813	8,044394119	7,876516947	8,044394119	7,761551232
EARS2	4,857980995	4,754887502	4,247927513	5,357552005	4,95419631	4,64385619
EBAG9	7,614709844	7,781359714	7,672425342	8,266786541	8,011227255	8,312882955
EBF1	6,375039431	6,087462841	6,108524457	7,475733431	7,285402219	7,592457037
EBF2	0	0	0	0	2,321928095	3,169925001
EBF3	0	0	0	0	0	0
EBF4	0	1	0	0	0	0
EBI3	2,321928095	2,807354922	3,321928095	0	3	3,169925001
EBLN1	0	0	0	0	0	0
EBLN2	4,754887502	4,95419631	5,044394119	4,087462841	4	4,95419631
EBNA1BP2	7,199672345	7,238404739	6,832890014	6,62935662	6,942514505	6,409390936
EBP	6,459431619	6,189824559	6,321928095	5,614709844	5,977279923	4,64385619
EBPL	5,392317423	5,392317423	5,169925001	6,06608919	6,189824559	5,554588852
ECD	5,95419631	6,129283017	6,247927513	5,614709844	5,727920455	5,95419631
ECE1	6	5,832890014	5,754887502	6,321928095	6,658211483	5,832890014

ECE2	0	0	0	0	0	0
ECEL1	0	0	1	0	0	0
ECEL1P2	0	0	0	0	0	0
ECH1	6,475733431	6,442943496	6,714245518	6,189824559	6,807354922	6,06608919
ECHDC1	7,375039431	7,303780748	7,21916852	7,14974712	7,22881869	7,055282436
ECHDC2	5,044394119	5,087462841	5,392317423	5,700439718	4,95419631	5,554588852
ECHDC3	1	3	2	0	1,584962501	3,169925001
ECHS1	6,569855608	7,076815597	7,209453366	5,700439718	6,321928095	3,169925001
ECI1	5,357552005	5,426264755	5,807354922	4,523561956	4,459431619	0
ECI2	6,044394119	5,857980995	6,189824559	5,930737338	6,129283017	5,357552005
ECM1	0	1,584962501	0	0	0	0
ECM2	0	0	0	2,321928095	1,584962501	3,807354922
ECSCR	0	0	0	0	0	0
ECSIT	4,906890596	5,087462841	5,169925001	5,247927513	4,807354922	3,807354922
ECT2	5,044394119	5,044394119	4,700439718	0	2,321928095	0
ECT2L	0	0	0	1	3	3,807354922
EDA	1,584962501	0	1,584962501	0	0	0
EDA2R	0	0	0	0	0	0
EDAR	0	0	3,169925001	3,807354922	2,321928095	3,169925001
EDARADD	3	2,807354922	2,584962501	1	2,321928095	0
EDC3	4,169925001	4,392317423	3,584962501	4,321928095	2,321928095	3,169925001
EDC4	0	0	0	0	0	0
EDDM3A	0	0	0	0	0	0
EDDM3B	0	0	0	0	0	0
EDEM1	8,262094845	8,348728154	8,459431619	8,607330314	8,413627929	8,654636029
EDEM2	6,108524457	6,266786541	5,930737338	5,357552005	5,554588852	4,95419631
EDEM3	8,438791853	8,46760555	8,539158811	8,717676423	8,426264755	8,503825738
EDF1	7,73470962	7,693486957	7,54689446	8,330916878	8,405141463	8,447083226
EDIL3	1,584962501	2,321928095	1,584962501	2,807354922	0	0
EDN1	2,807354922	3	3,321928095	3,807354922	3,321928095	0
EDN2	0	0	0	2,807354922	0	2
EDN3	0	0	1	2,807354922	0	3,169925001
EDNRA	3	2,807354922	2	4,857980995	3,700439718	5,169925001
EDNRB	0	2,584962501	2	0	0	0
EEA1	8,95419631	8,721099189	8,82336724	8,392317423	8,353146825	8,159871337
EED	7,375039431	7,539158811	7,348728154	8,033423002	7,864186145	7,761551232
EEF1A1	6,50779464	6,442943496	6,584962501	7,614709844	7,451211112	7,87036472
EEF1A2	0	0	0	0	2,321928095	0
EEF1B2	8,159871337	8,321928095	8,426264755	9,627533884	9,796039609	9,818582177
EEF1D	9,577428828	9,698704667	9,625708843	10,6891244	10,83841608	10,84235034
EEF1DP3	0	0	0	0	0	0
EEF1E1	6,686500527	6,614709844	6,247927513	6,62935662	6,700439718	6,930737338
EEF1G	3,321928095	2,321928095	3	2,807354922	4,247927513	4,321928095
EEF2	10,65999589	10,75655632	10,81938079	11,09539702	11,20028561	11,08613623
EEF2K	5,977279923	5,95419631	5,882643049	6	5,64385619	5,554588852
EEFSEC	3	3,700439718	3	2,321928095	2,321928095	2
EEPDP1	5,523561956	5,392317423	5,044394119	1	1,584962501	0
EFCAB1	0	0	0	0	0	0
EFCAB10	1,584962501	1	0	0	3	2
EFCAB11	3,906890596	3,906890596	4	3,321928095	3,700439718	3,807354922
EFCAB2	3	3	2,584962501	4,321928095	4,247927513	4,64385619
EFCAB3	0	0	0	0	0	0
EFCAB5	2,807354922	1	0	3,807354922	3	3,807354922
EFCAB6	1,584962501	2,321928095	0	3,321928095	4,247927513	5,357552005
EFCAB7	3,321928095	1,584962501	2,807354922	4,087462841	3	3,807354922
EFCAB9	0	0	0	0	0	0
EFEMP1	0	0	0	0	0	0
EFEMP2	3	1	3,169925001	2,321928095	1,584962501	2

EFHB	1	2,321928095	0	1	3,700439718	5,554588852
EFHC1	4,247927513	4,857980995	5,247927513	6,554588852	6,087462841	6,965784285
EFHC2	1,584962501	1,584962501	1	0	0	0
EFHD1	1	0	1,584962501	2,321928095	0	0
EFHD2	8,124121312	8,459431619	8,511752654	7,129283017	7,62935662	7,055282436
EFNA1	3,321928095	3,700439718	3,169925001	0	3	0
EFNA2	0	0	0	0	0	0
EFNA3	1	2,321928095	3	0	0	0
EFNA4	3,459431619	2,807354922	3,169925001	0	0	0
EFNA5	2,807354922	3	2	3,321928095	3,700439718	3,807354922
EFNB1	3,321928095	3	3,807354922	1	2,321928095	0
EFNB2	0	1,584962501	1,584962501	3,321928095	3,321928095	5,169925001
EFNB3	0	0	0	2,807354922	0	0
EFR3A	9,182394353	9,273795599	9,290018847	8,339850003	8,45532722	7,592457037
EFR3B	0	1,584962501	0	5,882643049	5,087462841	6,965784285
EFS	0	0	0	0	0	0
EFTUD2	7,055282436	7,129283017	7,392317423	6,129283017	6,189824559	6,491853096
EGF	0	0	1	2,321928095	3,321928095	4,321928095
EGFEM1P	0	0	0	2,321928095	0	0
EGFL6	0	0	0	0	0	0
EGFL7	0	0	0	0	0	0
EGFL8	0	0	2	0	0	0
EGFLAM	0	0	0	0	0	0
EGFLAM-AS4	0	0	0	0	0	0
EGFR	1	0	0	0	0	0
EGLN1	7,392317423	7,285402219	7,199672345	7,321928095	7,64385619	6,820178962
EGLN2	4,459431619	5	5,129283017	4,857980995	5,285402219	3,807354922
EGLN3	3,584962501	2,807354922	3,807354922	2,807354922	0	0
EGOT	0	0	0	1	1,584962501	2
EGR1	9,946906274	9,975847968	9,33315535	6,554588852	6,539158811	7,409390936
EGR2	9,409390936	9,513727596	9,071462363	6,700439718	7,022367813	6,62935662
EGR3	5,930737338	6,266786541	5,392317423	5	5,169925001	5,554588852
EGR4	0	0	0	0	0	0
EHBP1	6,022367813	5,459431619	5,727920455	6,266786541	5,930737338	6,247927513
EHBP1L1	5,584962501	5,781359714	5,754887502	4,087462841	2,321928095	0
EHD1	7,721099189	7,614709844	7,714245518	8,366322214	8,30833903	8,257387843
EHD2	0	0	0	0	0	0
EHD3	2,584962501	3,321928095	2,584962501	2,807354922	3,700439718	0
EHD4	6,906890596	7,247927513	7,276124405	5,357552005	5,781359714	4,64385619
EHF	1,584962501	2,584962501	0	3,321928095	1,584962501	3,169925001
EHHADH	2,807354922	3	1,584962501	3,807354922	4	3,169925001
EHMT1	7,285402219	7,087462841	7	7,768184325	7,417852515	7,813781191
EHMT2	6,303780748	6,14974712	6,375039431	6,62935662	6,50779464	6,62935662
EI24	8,098032083	8,361943774	8,098032083	8,199672345	8,54689446	8,366322214
EID1	9,471675214	9,445014846	9,214319121	9,759888183	9,73978061	9,797661526
EID2	7,426264755	7,375039431	7,209453366	7,554588852	7,366322214	7,813781191
EID2B	4	4,087462841	4,247927513	5,523561956	4,459431619	5,357552005
EID3	4,523561956	4,584962501	5	5,832890014	4,807354922	6,321928095
EIF1	10,5849625	10,6183855	10,62570884	10,29232163	10,46658634	10,25738784
EIF1AD	6,426264755	6,321928095	6,189824559	6,741466986	6,807354922	5,95419631
EIF1AX	8,361943774	8,169925001	8,108524457	8,392317423	8,471675214	8,366322214
EIF1AY	7,936637939	7,930737338	7,906890596	8,554588852	8,558420713	8,636624621
EIF1B	7,636624621	7,383704292	7,209453366	7,475733431	7,794415866	7,562242424
EIF2A	8,022367813	7,972779923	8,108524457	8,479780264	8,103287808	8,558420713
EIF2AK1	7,845490051	7,930737338	7,781359714	7,906890596	7,693486957	7,942514505
EIF2AK2	7,960001932	7,918863237	8,082149041	7,357552005	7,451211112	7,918863237
EIF2AK3	6,988684687	6,857980995	7	7,209453366	7,22881869	7,592457037
EIF2AK4	6,375039431	6,539158811	5,95419631	5,930737338	5,727920455	4,64385619

EIF2B1	6,64385619	6,569855608	7,055282436	5,832890014	6,129283017	5,554588852
EIF2B2	5,321928095	5,426264755	5,209453366	5,129283017	4,247927513	4,64385619
EIF2B3	6,129283017	5,614709844	5,906890596	5,129283017	4,459431619	5,700439718
EIF2B4	5,426264755	5,857980995	5,807354922	6,06608919	6,129283017	5,169925001
EIF2B5	6,62935662	6,62935662	6,475733431	7,209453366	7,159871337	6,930737338
EIF2D	6,044394119	6	6,247927513	6,95419631	6,614709844	7,247927513
EIF2S1	7,285402219	7,169925001	7,303780748	7,794415866	7,599912842	7,994353437
EIF2S2	8,727920455	8,836050355	8,86727874	8,962896005	9,167418146	9,21916852
EIF2S3	8,400879436	8,584962501	8,519636253	8,787902559	8,672425342	8,836050355
EIF3A	10,85096815	10,64295422	10,78135971	10,96794671	10,86263736	11,05596023
EIF3B	7,06608919	6,882643049	7,400879436	7,918863237	7,672425342	7,592457037
EIF3C	0	0	0	0	0	0
EIF3CL	0	0	0	0	0	0
EIF3D	8,271463028	8,54689446	8,519636253	9,103287808	9,049848549	8,991521846
EIF3E	8,022367813	7,977279923	7,960001932	9,11113567	8,906890596	9,008428622
EIF3F	7,022367813	6,857980995	7,22881869	8,741466986	8,599912842	8,647458426
EIF3G	6,50779464	6,977279923	7,348728154	7,851749041	7,924812504	7,851749041
EIF3H	8,689997971	8,710806434	8,731319031	9,6794801	9,675957033	9,768184325
EIF3I	6,539158811	6,686500527	6,965784285	6,882643049	7,285402219	7,055282436
EIF3IP1	0	0	0	0	0	0
EIF3J	9,144658243	9,011227255	9,184875343	8,87958325	8,82336724	8,845490051
EIF3K	8,754887502	8,813781191	8,6794801	9,584962501	9,537218401	9,511752654
EIF3L	1,584962501	0	1	1	2,321928095	0
EIF3M	8,366322214	8,392317423	8,266786541	9,124121312	9,121533517	9,136991112
EIF4A1	3,700439718	4,754887502	3,906890596	5,129283017	5,087462841	5,357552005
EIF4A2	9,779719355	9,647458426	9,642051693	10,01680829	10,02236781	9,936637939
EIF4A3	8,087462841	8,189824559	8,060695932	8,257387843	8,209453366	8,033423002
EIF4B	8,098032083	7,971543554	7,515699838	9,174925683	9,167418146	9,364134655
EIF4E	7,442943496	7,62935662	7,348728154	8,011227255	7,900866808	8,049848549
EIF4E1B	0	0	0	0	0	0
EIF4E2	7,614709844	7,820178962	7,781359714	7,055282436	7,044394119	6,62935662
EIF4E3	7,06608919	7,022367813	7,139551352	6,794415866	6,857980995	6,569855608
EIF4EBP1	4,169925001	3,584962501	3,700439718	0	1,584962501	0
EIF4EBP2	8,54689446	8,592457037	8,321928095	8,13442632	8,535275377	8,016808288
EIF4EBP3	3,459431619	3,906890596	4,169925001	4,523561956	2,321928095	3,169925001
EIF4ENIF1	7	6,727920455	6,942514505	6,658211483	6,942514505	6,820178962
EIF4G1	8,903881846	8,700439718	8,768184325	8,682994584	8,797661526	9,019590728
EIF4G2	10,68387187	10,68387187	10,51569984	10,18115226	10,28424575	9,997179481
EIF4G3	8,124121312	7,857980995	7,930737338	7,303780748	6,942514505	7,276124405
EIF4H	6,189824559	5,727920455	5,727920455	5,700439718	5,977279923	6,06608919
EIF5	9,541096615	9,609178738	9,417852515	9,394462695	9,324180547	9,571752644
EIF5A	5,491853096	5,64385619	4,754887502	5,614709844	5,727920455	5,554588852
EIF5A2	4,906890596	4,64385619	4,64385619	5,357552005	5,392317423	4,321928095
EIF5AL1	0	0	0	0	0	0
EIF5B	10,30833903	10,20579325	10,26091953	10,52552081	10,37068741	10,63390341
EIF6	5,321928095	6,475733431	6,189824559	6	6,189824559	5,95419631
ELAC1	4	3,807354922	4,247927513	2,321928095	2,321928095	4,64385619
ELAC2	6,247927513	5,930737338	6,247927513	5,614709844	6,189824559	5,357552005
ELANE	0	0	1	0	1,584962501	0
ELAVL1	7,459431619	7,754887502	7,62935662	8,434628228	8,129283017	8,21916852
ELAVL2	0	0	0	1	2,321928095	0
ELAVL3	0	0	0	4,321928095	4,247927513	4,95419631
ELAVL4	2,584962501	3,584962501	1	4,700439718	5,087462841	4,95419631
ELF1	9,501837185	9,509775004	9,495855027	9,982993575	9,946906274	10,00562455
ELF2	7,768184325	7,357552005	7,475733431	8,103287808	8,033423002	8,312882955
ELF3	1	1,584962501	2	4,321928095	3,321928095	5,169925001
ELF4	5,906890596	6	5,700439718	4,523561956	5,459431619	4,321928095
ELF5	0	0	0	0	0	2

ELFN1	0	0	1	2,807354922	0	2
ELFN2	0	0	0	2,807354922	2	3,807354922
ELK1	5,930737338	6,108524457	6,044394119	6,22881869	6,409390936	4,95419631
ELK2AP	0	0	0	0	0	0
ELK3	7,483815777	7,266786541	7,247927513	7,813781191	7,851749041	7,700439718
ELK4	9,136991112	9,162391329	9,167418146	8,962896005	8,991521846	8,700439718
ELL	7,011227255	7,06608919	6,700439718	7,876516947	7,768184325	7,965784285
ELL2	6,321928095	6,14974712	5,977279923	6,50779464	5,930737338	6,62935662
ELL3	1	0	1,584962501	0	0	0
ELMO1	6,906890596	6,768184325	6,781359714	7,375039431	6,942514505	7,055282436
ELMO2	7,276124405	7,169925001	6,965784285	7,169925001	7,451211112	7,169925001
ELMO3	0	0	1	0	0	0
ELMOD1	0	0	0	0	0	0
ELMOD2	6,189824559	6,209453366	6,189824559	6,409390936	6,375039431	6,247927513
ELMOD3	3,321928095	3,807354922	4,087462841	5,357552005	5,727920455	4,95419631
ELN	0	0	0	1	0	0
ELOF1	5,357552005	5,727920455	5,584962501	6	5,857980995	5,554588852
ELOVL1	5,169925001	5,459431619	6,06608919	3,807354922	4	2
ELOVL2	0	0	0	0	0	0
ELOVL3	0	0	0	0	0	0
ELOVL4	3,459431619	1,584962501	3,321928095	2,807354922	0	3,169925001
ELOVL5	8,554588852	8,581200582	8,479780264	8,724513853	8,74819285	8,531381461
ELOVL6	3,321928095	1	3,169925001	4,087462841	4	4,321928095
ELOVL7	1,584962501	1,584962501	0	2,807354922	1,584962501	3,807354922
ELP2	7,169925001	7,14974712	7,400879436	8,426264755	8,392317423	8,491853096
ELP3	5,977279923	5,523561956	6,06608919	6	5,727920455	5,832890014
ELP4	6,22881869	5,554588852	6,266786541	6,584962501	5,930737338	6,62935662
ELSPBP1	0	0	0	0	0	0
EMB	8,948367232	8,86727874	8,939579214	9,35974956	8,933690655	9,087462841
EMBP1	3	3,321928095	2,584962501	1	3	0
EMCN	3,459431619	3,169925001	2,584962501	5,930737338	5,285402219	6,965784285
EMD	6,781359714	6,857980995	6,375039431	7,14974712	7,554588852	6,882643049
EME1	0	2,584962501	2	0	0	0
EME2	2,584962501	3,169925001	3,321928095	4,523561956	2,321928095	4,321928095
EMG1	6,339850003	6,50779464	6,475733431	7,22881869	7,247927513	7,209453366
EMID1	0	0	0	0	0	0
EMILIN1	1	1	1	0	0	0
EMILIN2	7,768184325	7,483815777	7,554588852	4,087462841	3,321928095	4,64385619
EMILIN3	0	0	0	0	0	0
EML1	0	0	0	3,807354922	3,321928095	2
EML2	7,285402219	7,787902559	7,851749041	7,754887502	7,781359714	7,700439718
EML3	4,857980995	5	5,357552005	5,247927513	4	4,321928095
EML4	9,73809226	9,670656249	9,731319031	10,6183855	10,46658634	10,5943246
EML5	3,807354922	4,459431619	4,169925001	5,523561956	3,700439718	4,321928095
EML6	3,321928095	2,584962501	4,169925001	5	5,169925001	5,700439718
EMP1	8,214319121	8,233619677	7,994353437	5,614709844	7,17990909	5,95419631
EMP2	1,584962501	0	2,584962501	3,807354922	3,700439718	5,554588852
EMP3	7,658211483	7,62935662	7,257387843	6,820178962	6,807354922	6,409390936
EMX1	0	0	0	0	0	0
EMX2	0	0	0	0	0	0
EMX2OS	0	1	0	0	3	3,807354922
EN1	0	0	0	0	0	0
EN2	0	0	0	0	1,584962501	0
ENAH	4	3,906890596	4,087462841	6,459431619	6,584962501	7,375039431
ENAM	1	1	0	0	0	0
ENC1	5,392317423	5,523561956	4,64385619	6	6,247927513	5,169925001
ENDOD1	4,700439718	4,169925001	4,95419631	4,321928095	5,169925001	4,321928095
ENDOG	4,64385619	5,426264755	5,491853096	3,321928095	5,64385619	0

ENDOU	0	0	0	0	0	2
ENDOV	3,906890596	4,321928095	4,087462841	4,857980995	5,169925001	4,64385619
ENG	6,087462841	6,189824559	6	4,523561956	4	5,700439718
ENGASE	6,539158811	6,22881869	6,62935662	6,658211483	6,807354922	6,569855608
ENHO	0	0	0	0	0	0
ENKUR	3	3,700439718	2,584962501	3,321928095	3	3,169925001
ENO1	10,22037833	10,32418055	10,30833903	9,182394353	9,905387005	8,982993575
ENO1-AS1	0	1	0	2,807354922	1,584962501	4,321928095
ENO2	6,303780748	6,686500527	5,614709844	6,129283017	6,807354922	3,807354922
ENO3	3	3,584962501	3	4,857980995	4,459431619	6,569855608
ENO4	1	2,321928095	0	4,087462841	4,459431619	5,169925001
ENOPH1	7,022367813	7,169925001	6,930737338	7,375039431	7,321928095	7,46760555
ENOSF1	6,392317423	6,409390936	6,475733431	6,700439718	6,459431619	5,832890014
ENOX1	3,807354922	3,169925001	3,169925001	5,129283017	5,169925001	6,569855608
ENOX2	5,169925001	5,459431619	5,459431619	6,321928095	5,554588852	5,554588852
ENPEP	2,584962501	1	1	2,807354922	4	4,64385619
ENPP1	1,584962501	1,584962501	1,584962501	4,857980995	3	2
ENPP2	5,129283017	5,321928095	4,857980995	3,321928095	2,321928095	3,169925001
ENPP3	1,584962501	1,584962501	2,584962501	2,807354922	3,700439718	5,169925001
ENPP4	6,95419631	6,807354922	6,741466986	7,189824559	7,285402219	6,62935662
ENPP5	3,906890596	3,584962501	3,584962501	0	1,584962501	0
ENPP6	0	0	0	0	0	0
ENPP7	0	0	1	0	0	0
ENSA	7,820178962	8,303780748	7,912889336	7,426264755	7,73470962	7,700439718
ENTHD1	1	1	0	2,321928095	0	3,807354922
ENTPD1	6,658211483	6,727920455	6,714245518	6,22881869	5,781359714	5,832890014
ENTPD2	0	0	0	0	0	0
ENTPD3	0	0	0	0	0	0
ENTPD3-AS1	3,459431619	1	2,584962501	2,807354922	3,321928095	2
ENTPD4	7,159871337	6,918863237	7,189824559	7,129283017	6,965784285	6,169925001
ENTPD5	5,392317423	4,754887502	5,321928095	5,523561956	5,930737338	5,832890014
ENTPD6	4,857980995	4,700439718	4,523561956	4,857980995	3,700439718	4,64385619
ENTPD7	3,321928095	2,807354922	2,807354922	0	0	0
ENTPD8	0	0	0	0	0	0
ENY2	8,396604781	8,483815777	8,276124405	7,876516947	8,082149041	8,087462841
EOMES	7,257387843	6,977279923	7,076815597	7,14974712	7,693486957	6,754887502
EP300	8,968666793	9,041659152	9,449148645	9,233619677	8,971543554	9,247927513
EP400	8,005624549	8,082149041	8,658211483	8,471675214	8,463524373	8,413627929
EPAS1	3,459431619	3,807354922	2,807354922	1	0	2
EPB41	9,451211112	9,419960178	9,791162889	10,12928302	10,01402047	10,07547915
EPB41L1	0	1	0	0	3	0
EPB41L2	7	7,087462841	7,21916852	6,741466986	6,942514505	7,129283017
EPB41L3	8,442943496	8,330916878	8,312882955	3,321928095	3,700439718	4,321928095
EPB41L4A	2,584962501	2,321928095	3	2,321928095	4	0
EPB41L4A-AS1	7,807354922	8,022367813	7,665335917	9,312882955	9,271463028	9,269126679
EPB41L4B	0	0	0	0	0	0
EPB41L5	4,392317423	3,169925001	3,906890596	3,807354922	3	5,832890014
EPB42	0	0	0	0	0	0
EPC1	9,826548487	9,651051691	9,68474862	9,808964175	9,781359714	9,847057346
EPC2	7,409390936	7,417852515	7,409390936	7,339850003	7,599912842	7,700439718
EPCAM	0	0	0	0	0	0
EPDR1	1,584962501	2,321928095	2,584962501	0	0	0
EPG5	7,451211112	7,312882955	7,658211483	7,813781191	7,707359132	8,049848549
EPGN	0	0	0	0	0	0
EPHA1	2,807354922	1,584962501	3,321928095	2,807354922	3	2
EPHA10	0	0	0	0	0	0
EPHA2	1	1,584962501	0	3,807354922	0	2
EPHA3	1	0	0	0	0	0

EPHA4	6,539158811	6	6,108524457	7,055282436	7,044394119	6,930737338
EPHA5	4	4	3,906890596	6,700439718	6,614709844	6,820178962
EPHA6	0	0	0	0	2,321928095	4,95419631
EPHA7	1	0	1	0	0	0
EPHA8	0	0	0	2,321928095	0	2
EPHB1	2,321928095	1	1,584962501	0	0	4,321928095
EPHB2	5,832890014	6,339850003	6,169925001	0	0	0
EPHB3	0	0	0	0	0	3,169925001
EPHB4	1	2,321928095	1,584962501	4,087462841	1,584962501	2
EPHB6	4,700439718	4	3,807354922	5,523561956	5,459431619	5,357552005
EPHX1	0	1,584962501	0	0	0	0
EPHX2	4,169925001	4,584962501	4,906890596	5,754887502	5,781359714	4,95419631
EPHX3	0	0	0	0	0	0
EPHX4	0	0	0	0	2,321928095	0
EPM2A	4,95419631	4,087462841	3,807354922	4,523561956	4	4,321928095
EPM2AIP1	8,285402219	8,442943496	8,45532722	9,131856961	8,962896005	9,292321633
EPN1	6,022367813	5,459431619	5,807354922	7,129283017	6,459431619	7,169925001
EPN2	3,906890596	4	4,247927513	0	2,321928095	0
EPN3	0	0	0	0	0	0
EPO	0	0	0	0	0	0
EPOR	2,584962501	3,321928095	3,584962501	1	1,584962501	2
EPPK1	0	2,584962501	1,584962501	3,321928095	3	2
EPRS	9,294620749	9,108524457	9,174925683	9,485829309	9,440869168	9,539158811
EPS15	8,21916852	8,321928095	8,54689446	8,471675214	8,672425342	8,54303182
EPS15L1	5,392317423	5,523561956	5,554588852	6,06608919	5,857980995	6,491853096
EPS8	2,807354922	3,321928095	2,807354922	4,087462841	4,807354922	5,554588852
EPS8L1	1	1,584962501	0	1	0	0
EPS8L2	1	2,584962501	2	0	4	3,807354922
EPS8L3	0	0	0	0	0	0
EPSTI1	9,400879436	9,06608919	9,06608919	7,499845887	7,658211483	7,942514505
EPX	0	0	0	0	0	0
EPYC	0	0	0	0	0	0
ERAL1	4,321928095	3,169925001	2	1	2,321928095	0
ERAP1	8,413627929	8,361943774	8,209453366	7,794415866	7,876516947	7,442943496
ERAP2	6,554588852	6,614709844	6,569855608	6,584962501	6,614709844	7,312882955
ERAS	0	0	0	0	0	0
ERBB2	1,584962501	2,807354922	2,807354922	1	1,584962501	3,169925001
ERBB3	2,321928095	0	0	4,321928095	1,584962501	4,321928095
ERBB4	1,584962501	0	1	1	3	3,807354922
ERC1	6,894817763	6,965784285	7,055282436	6,584962501	6,584962501	6,169925001
ERC2	2,321928095	1	1	0	2,321928095	0
ERCC1	5,209453366	5,554588852	5,491853096	5,523561956	3,700439718	3,169925001
ERCC2	2,807354922	3	3	2,321928095	1,584962501	3,807354922
ERCC3	7,285402219	7,022367813	7,330916878	7,918863237	7,888743249	7,87036472
ERCC4	7,022367813	6,894817763	6,87036472	7,577428828	7,74819285	7,491853096
ERCC5	3,906890596	3,906890596	4,087462841	4,857980995	4,95419631	3,169925001
ERCC6	6,409390936	5,977279923	6,321928095	6,700439718	6,50779464	6,169925001
ERCC6L	0	0	0	3,321928095	3	4,95419631
ERCC8	2,321928095	3,584962501	2,807354922	3,807354922	2,321928095	3,807354922
EREG	5,882643049	5,672425342	5,672425342	6,554588852	6,807354922	6,169925001
ERF	5,554588852	5,459431619	5,672425342	5,832890014	6,247927513	5,95419631
ERG	0	0	1,584962501	0	0	0
ERGIC1	7,491853096	7,539158811	7,599912842	7,459431619	7,523561956	7,209453366
ERGIC2	8,87036472	8,614709844	8,647458426	8,87958325	8,957102042	9,144658243
ERGIC3	6,409390936	6,321928095	5,930737338	6,321928095	6,321928095	6,409390936
ERH	8,665335917	8,6794801	8,686500527	8,962896005	9,271463028	9,172427509
ERI1	6,06608919	5,672425342	6,044394119	5,459431619	5,930737338	4,321928095
ERI2	4,584962501	4,95419631	3,906890596	2,321928095	2,321928095	2

ERI3	2,584962501	2,321928095	4,169925001	1	1,584962501	0
ERICH1	7,562242424	7,531381461	7,693486957	7,714245518	7,672425342	7,700439718
ERLEC1	7,577428828	7,409390936	7,118941073	7,247927513	7,383704292	6,700439718
ERLIN1	6,87036472	6,918863237	7,199672345	6,845490051	6,658211483	6,409390936
ERLIN2	6,700439718	6,741466986	6,714245518	6,882643049	6,741466986	7,055282436
ERMAP	2,584962501	3,807354922	4,247927513	4,700439718	3,321928095	5,554588852
ERMN	1,584962501	3,584962501	3	5,129283017	3,700439718	5,169925001
ERMP1	5,554588852	5,554588852	5,491853096	5,700439718	5,285402219	5,700439718
ERN1	8,400879436	8,422064766	8,285402219	9,451211112	9,35974956	9,596189756
ERN2	0	0	0	0	0	0
ERP27	1,584962501	1,584962501	3,584962501	1	2,321928095	0
ERP29	9,100662339	9,17990909	9,154818109	9,674192268	9,6794801	9,761551232
ERP44	8,903881846	8,721099189	8,758223215	8,479780264	8,379378367	8,491853096
ERRF1	3,584962501	2,584962501	2,807354922	2,321928095	0	0
ERV3-1	4,459431619	4,392317423	4,700439718	5,754887502	5,930737338	5,554588852
ERVFRD-1	0	0	0	0	0	0
ERVK13-1	5,832890014	5,459431619	5,882643049	6,375039431	5,459431619	7,011227255
ERVMER34-1	0	0	0	0	0	0
ERVV-1	0	0	0	0	0	0
ERVV-2	0	0	0	0	0	0
ESAM	1	0	0	0	1,584962501	2
ESCO1	7,965784285	7,994353437	8,082149041	7,994353437	8,129283017	8,257387843
ESCO2	2,807354922	1,584962501	3	2,807354922	3,321928095	2
ESD	7,375039431	7,375039431	7,554588852	7,599912842	7,06608919	7,409390936
ESF1	8,921840937	8,768184325	8,791162889	9,095397023	8,933690655	9,259743264
ESM1	1	2,321928095	1	3,321928095	2,321928095	3,169925001
ESPL1	1	1,584962501	3,169925001	3,807354922	0	0
ESPN	0	0	0	0	0	0
ESPNL	0	0	0	3,321928095	2,321928095	3,169925001
ESPNP	0	0	0	0	0	0
ESR1	4,392317423	3,584962501	3,700439718	5,357552005	5,169925001	5,832890014
ESR2	2,321928095	0	0	2,807354922	1,584962501	5,357552005
ESRG	0	0	0	0	0	0
ESRP1	0	1,584962501	1	0	1,584962501	3,807354922
ESRP2	0	0	0	0	0	0
ESRRA	6,768184325	6,539158811	6,768184325	5,754887502	5,087462841	6,247927513
ESRRB	0	0	0	1	1,584962501	3,169925001
ESRRG	1	1,584962501	1,584962501	2,807354922	1,584962501	3,807354922
ESX1	0	0	0	0	0	0
ESYT1	7,17990909	6,977279923	6,965784285	6,129283017	6,965784285	5,832890014
ESYT2	7,8008999	7,636624621	7,700439718	7,894817763	8,033423002	7,375039431
ESYT3	0	0	0	0	0	2
ETAA1	5,807354922	6,087462841	5,523561956	6,906890596	6,918863237	7,169925001
ETF1	7,523561956	7,554588852	7,569855608	7,672425342	7,50779464	7,813781191
ETFA	8,169925001	8,312882955	7,882643049	7,599912842	7,768184325	7,787902559
ETFB	5,832890014	5,882643049	5,672425342	5,754887502	5,64385619	6,700439718
ETFDH	5,247927513	4,857980995	4,584962501	5	5,64385619	5,169925001
ETHE1	5,247927513	5,357552005	5,129283017	4,087462841	4,64385619	3,807354922
ETNK1	8,810571635	8,87958325	8,842350343	8,451211112	8,503825738	8,366322214
ETNK2	1	0	0	0	0	0
ETS1	10,83841608	10,82336724	10,79522797	11,13249973	11,23421868	11,15165083
ETS2	7,491853096	7,768184325	7,894817763	6,700439718	7,087462841	6,321928095
ETV1	3,807354922	4,459431619	4,392317423	6,459431619	6,129283017	6,882643049
ETV2	1,584962501	1	1	2,321928095	0	0
ETV3	6,375039431	6,459431619	6,768184325	6,409390936	6,409390936	6,700439718
ETV3L	0	0	0	0	0	0
ETV4	0	0	0	0	0	0
ETV5	4,523561956	4,169925001	4,169925001	0	0	0

ETV6	8,417852515	8,539158811	8,703903573	8,276124405	8,30833903	8,348728154
ETV7	5,392317423	5,321928095	5,247927513	4,087462841	4,64385619	5,169925001
EVC	0	0	0	1	0	0
EVC2	1,584962501	2,321928095	0	1	1,584962501	2
EVI2A	8,707359132	8,417852515	8,266786541	7,982993575	8,082149041	7,787902559
EVI2B	10,06204614	9,938109326	10,09143539	9,632995197	9,805743872	9,571752644
EVI5	7,499845887	7,087462841	7,483815777	5,832890014	5,554588852	6,409390936
EVI5L	2,321928095	1,584962501	2	0	0	3,169925001
EVL	8,84862294	8,885696373	9,022367813	9,434628228	9,379378367	9,499845887
EVPL	0	0	0	0	0	3,169925001
EVPLL	0	0	0	0	0	0
EVX1	0	0	0	0	0	0
EVX2	0	0	0	0	0	0
EWSR1	8,820178962	9	9,105908509	9,461479447	9,290018847	9,511752654
EXD1	0	0	0	0	0	0
EXD2	3,700439718	4,087462841	3,169925001	4,857980995	4,64385619	4,321928095
EXD3	2,807354922	3,169925001	4,087462841	2,321928095	3,321928095	3,807354922
EXO1	2,321928095	0	0	0	0	0
EXOC1	7,781359714	7,672425342	7,741466986	7,994353437	7,539158811	7,918863237
EXOC2	6,714245518	6,62935662	6,807354922	6,930737338	7,209453366	7,312882955
EXOC3	6,988684687	7,06608919	7,087462841	7,14974712	6,918863237	6,965784285
EXOC3L1	0	0	0	0	0	0
EXOC3L2	0	0	0	0	0	0
EXOC3L4	0	0	0	0	0	0
EXOC4	6,50779464	6,882643049	6,754887502	6,95419631	6,285402219	7,129283017
EXOC5	8,214319121	8,290018847	8,071462363	7,971543554	7,584962501	8,144658243
EXOC6	6,409390936	6,06608919	6,459431619	6,700439718	6,614709844	7,169925001
EXOC6B	5,247927513	5,285402219	4,95419631	4,857980995	4,95419631	5,95419631
EXOC7	6,714245518	6,339850003	6,832890014	6,906890596	6,918863237	6,700439718
EXOC8	7,169925001	6,832890014	7,118941073	7,098032083	7	7,312882955
EXOG	4,392317423	5	5,459431619	5,614709844	6,044394119	6,169925001
EXOSC1	5,321928095	5,087462841	5,357552005	6,129283017	5,930737338	5,554588852
EXOSC10	6,339850003	6,087462841	5,930737338	6,50779464	5,857980995	5,700439718
EXOSC2	5,209453366	5,285402219	4,95419631	5,754887502	6,044394119	4,321928095
EXOSC3	6,930737338	6,50779464	6,285402219	6,321928095	6,375039431	6,409390936
EXOSC4	4,392317423	3,321928095	4,392317423	3,321928095	0	0
EXOSC5	4,392317423	4,700439718	4,584962501	1	4	4,321928095
EXOSC6	8,344295908	8,46760555	8,459431619	8,6794801	8,857980995	8,948367232
EXOSC7	6,044394119	6,614709844	6,303780748	5,832890014	6,409390936	5,357552005
EXOSC8	6,475733431	6,209453366	5,807354922	6,321928095	6,129283017	6,169925001
EXOSC9	7,392317423	7,169925001	6,965784285	7,658211483	7,312882955	7,312882955
EXPH5	4,64385619	4	4,459431619	4,321928095	4,64385619	6,06608919
EXT1	3,459431619	4	4,523561956	5	4,459431619	4,64385619
EXT2	5,523561956	5,426264755	4,95419631	6	5,285402219	5,169925001
EXTL1	1	0	0	0	0	0
EXTL2	3,321928095	3,584962501	4,169925001	5,523561956	4,247927513	5,832890014
EXTL3	4,392317423	4,523561956	4,459431619	3,321928095	3	2
EYA1	1	0	0	2,321928095	0	0
EYA2	0	0	0	0	0	0
EYA3	7,348728154	7,375039431	7,599912842	7,189824559	7,22881869	6,700439718
EYA4	2,807354922	3,700439718	2,807354922	6,321928095	5,169925001	6,965784285
EYS	2,584962501	3	2,584962501	5	4	5,832890014
EZH1	6,930737338	6,857980995	7,285402219	7,515699838	7,22881869	7,348728154
EZH2	6,754887502	6,754887502	6,906890596	6,584962501	6,658211483	7,055282436
EZR	8,826548487	8,754887502	8,73809226	8,97441459	9	8,965784285
F10	0	0	0	0	0	0
F11	0	0	1	0	0	4,321928095
F11R	6,06608919	6,375039431	5,882643049	5,700439718	6,044394119	3,807354922

F12	0	0	0	0	0	0
F13A1	2,584962501	2,321928095	0	4,087462841	2,321928095	5,700439718
F13B	0	0	0	0	0	0
F2	0	0	0	0	0	0
F2R	6,794415866	6,554588852	6,491853096	7,515699838	7,139551352	6,882643049
F2RL1	2,807354922	3,584962501	3,169925001	3,807354922	3,700439718	4,64385619
F2RL2	0	0	1,584962501	2,807354922	4,459431619	2
F2RL3	0	0	0	0	0	0
F3	5,781359714	6,108524457	6,06608919	3,807354922	4,807354922	4,321928095
F5	3,906890596	3,700439718	3,321928095	5,129283017	2,321928095	4,64385619
F7	0	0	0	0	0	0
F8	5,285402219	5,247927513	4,754887502	5,247927513	5,977279923	5,169925001
F8A1	2,321928095	3	0	1	1,584962501	0
F8A2	0	0	0	0	0	0
F8A3	0	0	0	0	0	0
F9	0	1	0	0	0	0
FA2H	0	0	0	0	0	0
FAAH	0	0	2,807354922	0	0	0
FAAH2	4	5	4,700439718	7,022367813	6,409390936	6,409390936
FABP1	0	0	0	0	0	0
FABP12	0	0	0	0	0	0
FABP2	0	0	0	0	0	0
FABP3	0	0	0	0	0	0
FABP4	1	0	1,584962501	0	0	0
FABP5	1,584962501	0	0	0	1,584962501	0
FABP5P3	1	2,321928095	0	3,807354922	3	3,169925001
FABP6	0	0	0	0	0	0
FABP7	0	0	0	0	0	0
FABP9	0	0	0	0	0	0
FADD	5,169925001	5,882643049	5,584962501	5,832890014	6,614709844	5,700439718
FADS1	5,554588852	5,857980995	4,247927513	4,523561956	4,247927513	4,95419631
FADS2	1	1	1,584962501	0	0	0
FADS3	4,392317423	4,95419631	4,95419631	5,247927513	3,321928095	4,64385619
FADS6	0	0	0	0	2,321928095	2
FAF1	5,321928095	5,357552005	5,426264755	5,523561956	5,285402219	3,807354922
FAF2	7,139551352	6,942514505	7,199672345	7,599912842	7,539158811	7,592457037
FAH	4,754887502	4,169925001	4,392317423	0	1,584962501	0
FAHD1	5,554588852	5,930737338	5,584962501	3,321928095	5,087462841	4,321928095
FAHD2A	3,584962501	3,169925001	3,169925001	3,807354922	4	4,64385619
FAHD2B	1	2,584962501	1	0	0	0
FAIM	3,321928095	3,321928095	4	3,321928095	0	2
FAIM2	0	0	0	0	0	0
FAM102A	9,364134655	9,614709844	9,813781191	10,40407714	10,50481899	10,40407714
FAM102B	5,807354922	5,95419631	5,672425342	5,129283017	4,459431619	4,95419631
FAM104A	6,882643049	6,965784285	6,599912842	6,882643049	6,50779464	6,491853096
FAM104B	4,700439718	5,321928095	5,392317423	5	4,807354922	4,321928095
FAM106A	2,807354922	3	2,807354922	2,321928095	3	2
FAM107A	0	2,321928095	2,807354922	4,857980995	5,087462841	5,700439718
FAM107B	10,30035256	10,36741475	10,16616308	10,87958325	10,91288934	10,77478706
FAM110A	5,209453366	5,285402219	4,906890596	4,087462841	3,700439718	3,169925001
FAM110B	2,807354922	2,807354922	0	2,321928095	0	0
FAM110C	2,321928095	0	1	0	0	0
FAM110D	0	0	0	0	0	0
FAM111A	8,689997971	8,668884984	8,6794801	8,339850003	8,299208018	7,965784285
FAM111B	5,392317423	5,169925001	5,044394119	3,807354922	5,169925001	6,247927513
FAM114A1	4,169925001	3,700439718	4,584962501	2,321928095	0	0
FAM114A2	7,087462841	6,832890014	6,781359714	7,22881869	7,523561956	7,348728154
FAM117A	7,787902559	8,055282436	7,977279923	8,614709844	8,665335917	8,413627929

FAM117B	6,108524457	6,189824559	6,303780748	7	6,247927513	6,700439718
FAM118A	6,894817763	7,055282436	7,055282436	7,62935662	7,451211112	7,312882955
FAM118B	5	5,392317423	4,459431619	2,321928095	4	2
FAM120A	10,27496047	10,33539035	10,29232163	9,881113961	9,6794801	9,782998209
FAM120AOS	7,62935662	7,515699838	7,330916878	8,243173983	7,73470962	8,379378367
FAM120B	6,06608919	6,266786541	6,321928095	6,554588852	6,918863237	6,882643049
FAM120C	4,906890596	4,64385619	4,64385619	6,459431619	5,64385619	6,882643049
FAM122A	6,303780748	5,95419631	5,727920455	5,357552005	6,129283017	5,357552005
FAM122B	7,199672345	7,442943496	7,475733431	7,942514505	7,982993575	7,87036472
FAM122C	4,459431619	4,459431619	4,247927513	1	1,584962501	3,169925001
FAM124A	0	1	1	0	2,321928095	0
FAM124B	0	0	0	0	0	0
FAM126A	6,62935662	6,857980995	6,714245518	6,794415866	6,942514505	7,011227255
FAM126B	7,531381461	7,584962501	7,392317423	7,577428828	7,434628228	7,442943496
FAM129A	9,324180547	9,262094845	9,398743692	9,533329732	9,337621902	9,326429487
FAM129B	6,375039431	6,614709844	6,857980995	2,807354922	4,459431619	0
FAM129C	5,285402219	4,906890596	5,044394119	5,930737338	5,169925001	6,409390936
FAM131A	5,95419631	5,807354922	5,392317423	5	4,807354922	4,64385619
FAM131B	0	1,584962501	0	2,807354922	0	3,169925001
FAM131C	0	0	0	0	0	0
FAM133A	0	0	0	0	0	3,169925001
FAM133B	6,64385619	6,044394119	6,87036472	6,906890596	6,614709844	6,930737338
FAM135A	6,189824559	5,781359714	5,807354922	5,930737338	5,169925001	5,95419631
FAM135B	0	0	0	0	0	0
FAM136A	6,686500527	6,832890014	6,64385619	6	6,50779464	5,554588852
FAM138A	0	0	0	0	0	0
FAM138B	0	0	0	0	0	0
FAM138C	0	0	0	0	0	0
FAM138D	0	0	0	0	0	0
FAM138E	0	0	0	0	0	0
FAM138F	0	0	0	0	0	0
FAM13A	6,266786541	5,727920455	5,754887502	4,700439718	5,727920455	5,832890014
FAM13A-AS1	5,727920455	5,781359714	5,754887502	5,129283017	4,95419631	4,64385619
FAM13B	7,62935662	7,651051691	7,965784285	7,826548487	7,794415866	7,672425342
FAM13C	0	0	0	0	0	0
FAM149A	0	0	0	0	2,321928095	3,169925001
FAM149B1	4,95419631	4,857980995	5,044394119	4,321928095	4	3,169925001
FAM151A	0	0	0	0	0	0
FAM151B	1,584962501	1,584962501	1	2,807354922	0	3,169925001
FAM153A	5,357552005	6,285402219	5,977279923	4,700439718	5,554588852	5,554588852
FAM153B	0	0	0	0	0	0
FAM153C	0	0	1	0	1,584962501	0
FAM155A	2,584962501	0	1	3,321928095	2,321928095	3,807354922
FAM155B	0	0	0	0	0	0
FAM156A	0	0	0	0	1,584962501	0
FAM156B	0	0	0	0	0	0
FAM157A	0	0	0	0	0	0
FAM157B	1,584962501	1	2,584962501	0	0	3,169925001
FAM160A1	0	0	1,584962501	0	0	0
FAM160A2	5,285402219	5,459431619	5,044394119	4,523561956	5,857980995	0
FAM160B1	6,882643049	6,942514505	7,098032083	7,592457037	7,50779464	7,761551232
FAM160B2	5,209453366	5,321928095	5,209453366	5,357552005	5,727920455	6,569855608
FAM161A	4,321928095	4	4,087462841	5,614709844	3	4,64385619
FAM161B	2,584962501	1	3,584962501	2,807354922	1,584962501	2
FAM162A	8,285402219	8,499845887	8,266786541	7,930737338	8,184875343	7,832890014
FAM162B	0	0	0	0	0	0
FAM163A	0	0	0	0	0	0
FAM163B	0	0	0	0	0	0

FAM166A	0	0	0	0	0	0
FAM166B	0	0	0	0	1,584962501	0
FAM167A	2,321928095	0	1	0	2,321928095	0
FAM167B	0	0	1	2,321928095	0	0
FAM168A	5,832890014	6,169925001	5,754887502	5	5,392317423	5,700439718
FAM168B	6,569855608	6,50779464	6,62935662	7,303780748	6,918863237	7,442943496
FAM169A	6,022367813	6,087462841	5,614709844	7,459431619	7,266786541	7,46760555
FAM169B	0	0	0	0	0	0
FAM170A	0	0	0	0	0	2
FAM170B	0	0	0	0	0	0
FAM171A1	3,807354922	3,807354922	4	3,321928095	4,247927513	4,321928095
FAM171A2	0	2,584962501	2	4,857980995	4,459431619	4,321928095
FAM171B	0	1	2	2,807354922	0	0
FAM172A	7,686500527	7,599912842	7,754887502	7,876516947	8,011227255	8,144658243
FAM172BP	0	0	1	0	0	0
FAM173A	4,584962501	5,169925001	4,857980995	2,321928095	3,321928095	0
FAM173B	4,321928095	4,321928095	3,807354922	2,321928095	2,321928095	0
FAM174A	5,129283017	5,392317423	5,321928095	3,321928095	4,95419631	0
FAM174B	2,321928095	2,584962501	0	2,321928095	3	3,169925001
FAM177A1	7,523561956	7,21916852	7,459431619	7,321928095	7,17990909	7,622051819
FAM177B	2,807354922	3,906890596	3,321928095	4,700439718	4,64385619	5,169925001
FAM178B	0	0	0	0	0	0
FAM180A	0	0	0	0	0	0
FAM180B	0	0	0	0	0	2
FAM181A	0	0	0	0	0	0
FAM181A-AS1	0	0	0	0	0	0
FAM181B	0	0	0	0	0	0
FAM182A	0	0	0	0	0	0
FAM182B	0	0	0	0	2,321928095	0
FAM183A	0	0	0	0	0	0
FAM184A	4,523561956	3,807354922	3,906890596	5,700439718	4,459431619	5,832890014
FAM184B	0	0	0	4,087462841	3	5,700439718
FAM185A	2,321928095	1,584962501	3,169925001	3,321928095	1,584962501	0
FAM186A	0	0	1,584962501	1	2,321928095	2
FAM186B	0	0	0	0	0	3,169925001
FAM187B	0	0	0	0	0	0
FAM189A1	0	0	0	0	0	0
FAM189A2	1,584962501	0	0	1	1,584962501	0
FAM189B	5,584962501	5,584962501	5,584962501	5,700439718	5,781359714	4,321928095
FAM192A	7,098032083	7,475733431	7,209453366	7,592457037	7,554588852	7,515699838
FAM193A	7,417852515	7,357552005	7,285402219	7,375039431	7,434628228	7,672425342
FAM193B	5,700439718	5,727920455	5,426264755	6,22881869	5,087462841	5,554588852
FAM198A	0	0	0	0	0	0
FAM198B	7,285402219	7,199672345	7,14974712	2,321928095	2,321928095	3,169925001
FAM199X	6,882643049	6,686500527	6,918863237	6,95419631	7,06608919	7,348728154
FAM19A1	1	0	0	0	0	2
FAM19A2	4	3,906890596	3,906890596	5	3,321928095	5,357552005
FAM19A3	0	0	0	0	0	0
FAM19A4	0	0	0	0	0	0
FAM19A5	0	0	0	0	0	0
FAM200A	4,321928095	4,95419631	5,169925001	6,554588852	6,857980995	7,276124405
FAM200B	6,988684687	7,011227255	6,62935662	6,977279923	6,614709844	7,055282436
FAM201A	1	1	0	0	0	0
FAM204A	7,87036472	7,820178962	7,820178962	8,184875343	7,977279923	8,189824559
FAM205A	0	0	0	0	0	0
FAM206A	5,523561956	5,169925001	5,044394119	4,087462841	4,807354922	4,321928095
FAM207A	3,807354922	4,087462841	3,700439718	4,700439718	3	0
FAM208A	9,082149041	9,076815597	9,016808288	9,37286506	9,174925683	9,487840034

FAM208B	7,491853096	7,321928095	7,820178962	7,826548487	7,50779464	7,515699838
FAM209A	2,584962501	2,584962501	1,584962501	4,523561956	4,64385619	5,700439718
FAM209B	1	0	0	2,321928095	0	0
FAM20A	1	1,584962501	2,807354922	0	1,584962501	0
FAM20B	7,199672345	7,339850003	7,17990909	7,055282436	7,247927513	6,930737338
FAM20C	7,087462841	7,383704292	7,189824559	0	0	0
FAM210A	6,64385619	6,22881869	6,727920455	6,700439718	7,139551352	6,491853096
FAM210B	7,392317423	7,266786541	6,988684687	6,50779464	6,584962501	6,62935662
FAM214A	7,434628228	7,169925001	7,491853096	7,942514505	7,74819285	8,238404739
FAM214B	4,700439718	4,584962501	4,247927513	0	1,584962501	0
FAM215A	0	0	0	0	0	0
FAM216A	7	7,033423002	6,700439718	7,076815597	7,366322214	6,321928095
FAM216B	0	0	0	0	0	0
FAM217A	0	0	0	0	0	0
FAM217B	7,894817763	7,888743249	7,820178962	7,531381461	7,820178962	7,539158811
FAM24A	0	0	0	0	0	0
FAM24B	4,95419631	4,754887502	4,95419631	5,459431619	6,189824559	5,554588852
FAM25A	0	0	0	0	0	0
FAM25C	0	0	0	0	0	0
FAM25G	0	0	0	0	0	0
FAM27B	0	0	0	0	0	0
FAM27C	0	0	0	0	0	0
FAM32A	8,523561956	8,46760555	8,519636253	8,383704292	8,491853096	8,299208018
FAM3A	4,754887502	4,754887502	4,64385619	5	4	3,169925001
FAM3B	2,321928095	0	0	0	0	0
FAM3C	6,988684687	7,257387843	7,442943496	6,375039431	6,50779464	5,832890014
FAM3D	0	0	1	0	0	0
FAM41AY1	0	0	0	0	0	0
FAM41AY2	0	0	0	0	0	0
FAM41C	0	0	0	0	0	0
FAM43A	6,569855608	6,894817763	6,569855608	6,930737338	6,614709844	6,321928095
FAM43B	0	0	0	0	0	0
FAM45A	5,523561956	4,857980995	5,247927513	3,807354922	5,169925001	3,169925001
FAM47A	0	0	0	0	0	0
FAM47B	0	0	0	0	0	0
FAM47C	0	0	0	0	0	0
FAM47E	1,584962501	0	0	0	1,584962501	2
FAM47E-STBD1	0	0	0	0	0	0
FAM49A	7,409390936	7,257387843	7,199672345	6,22881869	6,741466986	6,169925001
FAM49B	9,77148947	9,787902559	9,83447105	8,948367232	9,299208018	9,008428622
FAM50A	5,554588852	5,95419631	5,700439718	5,614709844	4,459431619	4,64385619
FAM50B	3,906890596	4,459431619	4,584962501	4,087462841	4,459431619	3,169925001
FAM53A	0	2,584962501	2	0	0	0
FAM53B	7,330916878	7,607330314	7,475733431	8,479780264	8,299208018	8,330916878
FAM53C	6,409390936	6,599912842	6,658211483	6	6,321928095	5,832890014
FAM57A	1,584962501	0	1,584962501	0	0	0
FAM57B	0	0	0	2,321928095	3	4,64385619
FAM66A	0	0	0	0	0	0
FAM66B	0	0	0	0	0	0
FAM66C	0	1	1	4,321928095	4	4,321928095
FAM66D	0	0	0	0	0	0
FAM66E	0	0	0	0	0	0
FAM69A	5,554588852	5,247927513	5,044394119	5,357552005	5,857980995	6,321928095
FAM69B	0	1,584962501	0	0	0	0
FAM69C	0	0	0	0	0	0
FAM71A	0	0	0	0	0	0
FAM71B	0	0	0	0	0	0
FAM71C	0	0	0	0	0	0

FAM71D	0	0	0	0	0	0
FAM71E1	0	0	0	0	0	0
FAM71E2	0	0	0	0	0	0
FAM71F1	0	0	0	4,523561956	3,700439718	3,169925001
FAM71F2	0	0	1	1	2,321928095	0
FAM72A	0	0	1	0	0	2
FAM72B	1	0	0	0	0	0
FAM72D	1	0	0	0	0	0
FAM74A1	0	0	0	0	0	0
FAM74A3	0	0	0	0	0	0
FAM74A4	0	0	0	0	0	0
FAM76A	6,022367813	6,108524457	5,882643049	5,754887502	5,554588852	5,700439718
FAM76B	7,832890014	7,614709844	7,820178962	7,700439718	7,554588852	7,276124405
FAM78A	6,741466986	6,672425342	7,022367813	6,50779464	6,584962501	6,247927513
FAM78B	0	0	2	2,807354922	4	2
FAM81A	0	0	0	0	0	0
FAM81B	1	1	0	2,807354922	3	3,169925001
FAM83A	0	1	1	2,321928095	3	0
FAM83B	1	0	0	3,321928095	3	4,64385619
FAM83C	0	0	0	2,807354922	1,584962501	4,321928095
FAM83D	1	2,584962501	0	6,584962501	6,087462841	6,321928095
FAM83E	0	0	0	0	0	0
FAM83F	2,321928095	0	0	6,554588852	5,554588852	7,442943496
FAM83G	3,700439718	3,807354922	3,807354922	4,523561956	2,321928095	2
FAM83H	1	1,584962501	2	0	1,584962501	0
FAM84A	1,584962501	1	3,700439718	5,523561956	5,459431619	5,832890014
FAM84B	5,807354922	5,95419631	5,584962501	6,977279923	6,658211483	6,700439718
FAM86B1	0	0	0	0	0	0
FAM86B2	0	0	0	0	0	0
FAM86C1	1	0	0	0	0	0
FAM86C2P	0	0	0	0	0	0
FAM86DP	3	1	2	1	0	0
FAM86EP	0	0	1	0	0	0
FAM86FP	0	0	0	0	0	0
FAM86HP	0	0	0	0	1,584962501	0
FAM89A	4,523561956	3,807354922	4,523561956	4,857980995	4,247927513	3,807354922
FAM89B	6,044394119	6,321928095	6,672425342	4,857980995	4,95419631	5,357552005
FAM8A1	7,076815597	7,129283017	6,741466986	7,14974712	7,22881869	6,882643049
FAM90A1	0	1	0	0	0	2
FAM90A25P	0	0	0	0	0	0
FAM90A27P	0	0	0	0	0	0
FAM90A2P	0	0	0	0	0	0
FAM91A1	7,721099189	7,636624621	7,8008999	7,475733431	7,266786541	7,375039431
FAM92B	0	0	0	0	0	0
FAM95B1	0	0	0	0	0	0
FAM98A	5,554588852	5,285402219	5,700439718	4,523561956	4,459431619	4,64385619
FAM98B	7,348728154	6,741466986	6,988684687	6,321928095	6,189824559	5,832890014
FAM98C	5,285402219	4,857980995	5,459431619	5,523561956	4,459431619	5,169925001
FAM99A	0	0	0	0	0	0
FAM99B	0	0	0	0	0	0
FAM9A	0	0	0	0	0	0
FAM9B	1,584962501	0	0	0	0	0
FAM9C	1	0	0	1	1,584962501	0
FAN1	5,044394119	5,169925001	5,491853096	6,22881869	5,857980995	6,247927513
FANCA	4	4,321928095	4,523561956	1	3,700439718	4,64385619
FANCB	3,906890596	3,321928095	3,584962501	0	2,321928095	4,64385619
FANCC	3,584962501	3	3,321928095	4,087462841	4,807354922	5,357552005
FANCD2	6,022367813	6,06608919	5,523561956	6,409390936	6,087462841	6,754887502

FANCE	4,459431619	5,087462841	4,169925001	2,807354922	3	4,321928095
FANCF	6,06608919	5,727920455	5,392317423	6,845490051	6,658211483	6,965784285
FANCG	3,807354922	4,087462841	4,700439718	4,523561956	1,584962501	2
FANCI	5	5	5,044394119	5,754887502	5,459431619	5,357552005
FANCL	6,247927513	6,554588852	6,459431619	6,375039431	6,741466986	5,357552005
FANCM	5,807354922	5,426264755	4,95419631	5,700439718	5,087462841	5,832890014
FANK1	1	0	1,584962501	0	3,700439718	0
FAP	2,321928095	2,321928095	1,584962501	5,247927513	5,285402219	6,820178962
FAR1	9,087462841	8,977279923	9,105908509	8,060695932	7,614709844	8,271463028
FAR2	5,044394119	4,906890596	4,754887502	1	0	3,169925001
FARP1	3,584962501	3,169925001	3,906890596	5,754887502	6,044394119	6,930737338
FARP2	5,95419631	6,087462841	5,857980995	3,807354922	4,459431619	3,169925001
FARS2	3,807354922	4,087462841	4	5	3	5,554588852
FARSA	5,247927513	5,169925001	5,209453366	4,321928095	4,807354922	0
FARSB	4,906890596	5,087462841	4,459431619	4,857980995	5,169925001	5,700439718
FAS	6,426264755	6,189824559	6,375039431	6,22881869	6,807354922	6,06608919
FASLG	5,321928095	5,247927513	4,906890596	5	5,930737338	3,169925001
FASN	5,672425342	5,426264755	5,857980995	5,459431619	5,554588852	3,169925001
FASTK	6	6,741466986	6,754887502	7,098032083	6,965784285	7,055282436
FASTKD1	6,686500527	6,584962501	6,714245518	6,409390936	6,584962501	7,312882955
FASTKD2	6,741466986	6,169925001	6,108524457	5,882643049	6,614709844	6,321928095
FASTKD3	5	4,700439718	4,584962501	4,700439718	5,169925001	4,64385619
FASTKD5	7,636624621	7,754887502	7,554588852	7,982993575	7,912889336	8,271463028
FAT1	0	1	0	0	0	0
FAT2	0	0	0	0	0	0
FAT3	1,584962501	2,321928095	1	2,807354922	4,64385619	4,321928095
FAT4	1	3	2	0	1,584962501	0
FATE1	0	0	0	0	0	0
FAU	11,26912668	11,34706766	11,34706766	11,78545247	11,78545247	11,78545247
FAXC	1,584962501	1	1	0	0	3,169925001
FBF1	3	2,807354922	2,584962501	3,321928095	3,321928095	4,321928095
FBL	9,011227255	9,361943774	9,505811554	10,24911345	10,43045255	10,32305476
FBLIM1	0	0	0	0	0	3,169925001
FBLL1	0	0	0	2,321928095	3,700439718	0
FBLN1	0	0	0	0	0	0
FBLN2	0	0	1	0	0	0
FBLN5	6	6,22881869	5,781359714	7,826548487	7,50779464	8,06608919
FBLN7	3	2,321928095	3,169925001	2,807354922	3,321928095	3,807354922
FBN1	1	0	3,169925001	2,321928095	3	5,357552005
FBN2	3	1,584962501	2,584962501	2,321928095	2,321928095	3,169925001
FBN3	0	0	0	0	0	0
FBP1	8,071462363	8,54303182	8,330916878	2,321928095	0	0
FBP2	0	0	0	0	0	0
FBR5	7,108524457	7,06608919	7,330916878	7,321928095	7,417852515	7,539158811
FBRSL1	6,022367813	5,977279923	6,285402219	6,794415866	6,247927513	4,95419631
FBXL12	6,285402219	6,339850003	6,409390936	6,459431619	6,614709844	6,169925001
FBXL13	2,584962501	1,584962501	2,807354922	1	2,321928095	3,169925001
FBXL14	1	1	0	1	2,321928095	0
FBXL15	4,754887502	4,169925001	4,392317423	3,807354922	4,95419631	3,169925001
FBXL16	6,022367813	6,169925001	6,108524457	6,321928095	6,375039431	5,169925001
FBXL17	7,257387843	7,17990909	7,285402219	8,071462363	7,912889336	8,366322214
FBXL18	1	2,584962501	2,584962501	2,321928095	3,321928095	2
FBXL19	3,807354922	3,321928095	5,169925001	3,807354922	3	2
FBXL19-AS1	0	1,584962501	2	4,700439718	1,584962501	0
FBXL2	1,584962501	0	0	0	0	0
FBXL20	6,285402219	6,554588852	7,076815597	7,169925001	6,965784285	7,055282436
FBXL21	0	0	0	0	0	0
FBXL22	1,584962501	2,321928095	2	2,321928095	2,321928095	3,169925001

FBXL3	8,011227255	8,076815597	8,06608919	7,459431619	7,62935662	7,64385619
FBXL4	6,475733431	6,845490051	6,303780748	6,62935662	6,539158811	6,569855608
FBXL5	8,21916852	8,022367813	7,491853096	7,475733431	7,523561956	7,562242424
FBXL6	0	0	1,584962501	1	1,584962501	0
FBXL7	0	0	0	0	0	0
FBXL8	1,584962501	0	0	0	0	0
FBXO10	3	3,169925001	2,584962501	4,321928095	4	4,64385619
FBXO11	8,842350343	8,761551232	8,903881846	8,531381461	8,700439718	8,965784285
FBXO15	2,584962501	2,584962501	2	3,321928095	3	3,807354922
FBXO16	0	0	0	1	0	3,807354922
FBXO17	0	0	0	0	0	0
FBXO2	2,807354922	1	2,584962501	2,321928095	0	0
FBXO21	7,622051819	7,475733431	7,491853096	7,64385619	7,74819285	7,851749041
FBXO22	6,832890014	6,781359714	6,988684687	7,055282436	7,139551352	7,515699838
FBXO24	0	2,321928095	0	3,321928095	3,700439718	4,95419631
FBXO25	6,977279923	6,768184325	6,426264755	7	7,044394119	6,569855608
FBXO27	0	0	0	0	1,584962501	3,169925001
FBXO28	6,658211483	5,930737338	6,569855608	6,700439718	7,022367813	6,569855608
FBXO3	7,451211112	7,357552005	7,539158811	7,614709844	7,554588852	7,721099189
FBXO30	5,807354922	6,044394119	5,614709844	5,882643049	5,977279923	5,95419631
FBXO31	5,321928095	5,087462841	4,087462841	5,459431619	5,554588852	5,95419631
FBXO32	7,614709844	7,768184325	7,392317423	8,011227255	7,807354922	7,813781191
FBXO33	6,894817763	6,539158811	6,754887502	6,820178962	7,247927513	6,965784285
FBXO34	7	7,076815597	7,033423002	7,303780748	7,434628228	7,562242424
FBXO36	2,584962501	0	1	0	0	0
FBXO38	6,95419631	6,942514505	6,807354922	7,672425342	7,321928095	7,442943496
FBXO39	0	0	0	1	0	0
FBXO4	5,977279923	5,832890014	5,672425342	6,62935662	6,409390936	6,247927513
FBXO40	0	0	0	0	0	0
FBXO41	3,906890596	3,906890596	3,584962501	3,321928095	2,321928095	0
FBXO42	5,491853096	5,95419631	5,781359714	6,129283017	6,087462841	6,06608919
FBXO43	1,584962501	0	0	2,807354922	2,321928095	5,169925001
FBXO44	3,584962501	3,584962501	3,906890596	3,807354922	3	3,169925001
FBXO45	7,266786541	7,169925001	7,330916878	7,022367813	7	6,247927513
FBXO46	6,475733431	6,554588852	6,658211483	6,768184325	6,918863237	6,930737338
FBXO47	0	2,321928095	0	1	1,584962501	4,321928095
FBXO48	4,523561956	3,584962501	4,169925001	5,247927513	5,554588852	5,832890014
FBXO5	5,672425342	5,584962501	5,169925001	5,754887502	5,64385619	5,832890014
FBXO6	3,700439718	4,087462841	4,700439718	1	0	2
FBXO7	8,577428828	8,566054038	8,668884984	8,661778098	8,636624621	8,927777962
FBXO8	5,614709844	5,64385619	5,357552005	5,129283017	4,807354922	5,357552005
FBXO9	8,396604781	8,392317423	8,312882955	8,451211112	8,392317423	8,379378367
FBXW10	0	0	0	0	0	2
FBXW11	7,098032083	6,714245518	6,820178962	7,209453366	7,159871337	7,741466986
FBXW12	0	0	0	1	0	0
FBXW2	7,876516947	8,055282436	7,948367232	8,495855027	8,348728154	8,087462841
FBXW4	5,247927513	5,247927513	4,95419631	5,614709844	5,727920455	4,64385619
FBXW4P1	2,584962501	3	0	1	3	2
FBXW5	6,189824559	6,539158811	6,599912842	4,700439718	5,392317423	3,807354922
FBXW7	8,535275377	8,451211112	8,658211483	9,271463028	9,355351096	9,28077077
FBXW8	4,169925001	4,321928095	3,700439718	4,857980995	4,64385619	5,554588852
FBXW9	1	2,807354922	1,584962501	0	3	0
FCAMR	0	0	0	0	0	0
FCAR	4,169925001	3,807354922	3,584962501	0	0	0
FCER1A	6,857980995	6,781359714	6,781359714	5,357552005	5,285402219	3,807354922
FCER1G	9,853309555	10,05392588	9,927777962	6,62935662	7,209453366	6,409390936
FCER2	3	3,169925001	3,906890596	2,807354922	0	0
FCF1	7,714245518	7,888743249	7,707359132	8,599912842	8,426264755	8,531381461

FCGBP	3	2,584962501	2,584962501	4,700439718	5,087462841	3,169925001
FCGR1A	5	5,044394119	5,321928095	0	0	0
FCGR1B	3,321928095	4	3,169925001	0	0	2
FCGR2A	7,285402219	7,169925001	7,199672345	1	3,321928095	0
FCGR2B	7,912889336	7,832890014	7,409390936	5,129283017	4,95419631	4,95419631
FCGR2C	6,754887502	6,781359714	6,64385619	2,321928095	1,584962501	3,807354922
FCGR3A	7,857980995	8,011227255	7,592457037	5,882643049	6,459431619	5,700439718
FCGR3B	3,459431619	0	2,584962501	2,807354922	1,584962501	4,64385619
FCGRT	7,247927513	7,721099189	7,426264755	3,807354922	3,321928095	0
FCHO1	4,392317423	4,392317423	4,247927513	4,087462841	2,321928095	2
FCHO2	6,303780748	6,06608919	5,807354922	5	4	5,169925001
FCHSD1	5,044394119	5,584962501	5,426264755	4,700439718	3,700439718	4,64385619
FCHSD2	6,906890596	6,50779464	6,832890014	6,62935662	6,285402219	6,321928095
FCN1	9,911391988	10,03479896	9,917372079	0	4,247927513	3,807354922
FCN2	0	0	0	0	0	0
FCN3	0	0	0	0	0	2
FCRL1	3,321928095	4,087462841	4,459431619	3,807354922	4,247927513	4,95419631
FCRL2	4,857980995	4,321928095	4,392317423	4,700439718	5,64385619	5,95419631
FCRL3	6,189824559	6,189824559	5,882643049	6,459431619	6,189824559	5,554588852
FCRL4	3,321928095	3,169925001	3,321928095	5,247927513	4,64385619	6,169925001
FCRL5	3,906890596	3,584962501	3,700439718	2,321928095	2,321928095	0
FCRL6	5,129283017	5,321928095	4,95419631	4,700439718	3	3,807354922
FCRLA	3,807354922	4,392317423	4	5,129283017	5,169925001	5,357552005
FCRLB	2,584962501	3	2	0	1,584962501	0
FDCSP	0	0	1	0	0	0
FDFT1	7,62935662	7,721099189	7,592457037	7,700439718	7,781359714	7,375039431
FDPS	6,768184325	6,768184325	6,942514505	6,820178962	6,882643049	6,754887502
FDX1	7,741466986	7,539158811	7,665335917	7,459431619	7,266786541	6,569855608
FDXACB1	4,523561956	4,857980995	3,807354922	0	3,700439718	0
FDXR	3,584962501	2,807354922	1,584962501	0	2,321928095	0
FECH	6,700439718	6,459431619	6,554588852	5,357552005	5,930737338	5,554588852
FEM1A	6,06608919	6,14974712	6,189824559	7,285402219	6,741466986	7,741466986
FEM1B	8,511752654	8,503825738	8,45532722	8,330916878	7,924812504	8,21916852
FEM1C	5,832890014	5,64385619	5,209453366	6,06608919	5,392317423	5,554588852
FEN1	5,169925001	5,247927513	5,321928095	5	5,169925001	5,169925001
FER	6,266786541	6,285402219	6,321928095	4,857980995	5,727920455	4,321928095
FER1L4	0	0	0	2,321928095	3	5,357552005
FER1L5	0	0	0	0	1,584962501	3,169925001
FER1L6	0	0	0	0	0	2
FER1L6-AS1	0	0	0	0	0	0
FERD3L	0	0	0	0	0	0
FERMT1	1,584962501	3	1,584962501	4,321928095	4,459431619	5,554588852
FERMT2	1	1,584962501	0	5,129283017	4,247927513	5,357552005
FERMT3	8,174925683	8,011227255	8,17990909	6,882643049	6,700439718	5,95419631
FES	4,247927513	4,459431619	4	2,321928095	1,584962501	0
FETUB	0	0	0	0	0	0
FEV	0	0	0	0	0	0
FEZ1	3,807354922	3,906890596	4,169925001	6,658211483	6,50779464	6,754887502
FEZ2	7,409390936	7,129283017	6,988684687	5,832890014	5,930737338	5,832890014
FEZF1	0	0	0	0	0	0
FEZF2	0	0	0	0	0	0
FFAR1	0	0	0	3,321928095	2,321928095	3,807354922
FFAR2	1,584962501	2,584962501	2,807354922	0	0	3,807354922
FFAR3	0	0	0	0	0	0
FGA	0	0	0	0	0	0
FGB	0	0	0	0	0	0
FGD1	0	0	0	0	0	0
FGD2	6,672425342	6,807354922	6,339850003	5,523561956	5,727920455	5,554588852

FGD3	7,330916878	7,409390936	7,330916878	7,129283017	7,321928095	7,276124405
FGD4	7,442943496	7,491853096	7,375039431	6,189824559	5,977279923	7,011227255
FGD5	0	1	0	0	0	4,321928095
FGD5-AS1	8,562242424	8,62935662	8,535275377	8,584962501	8,515699838	8,392317423
FGD6	5,321928095	5,247927513	4,700439718	3,321928095	4	3,807354922
FGF1	0	0	0	0	0	0
FGF10	0	0	0	0	0	0
FGF11	0	0	0	0	1,584962501	0
FGF12	3	3,584962501	3,169925001	5,754887502	5,857980995	6,569855608
FGF13	1,584962501	0	0	0	0	0
FGF14	2,321928095	0	1,584962501	0	1,584962501	3,169925001
FGF14-IT1	0	0	0	0	0	0
FGF16	0	0	0	0	0	0
FGF17	0	0	0	0	0	0
FGF18	1	1	0	5,357552005	4,247927513	5,554588852
FGF19	0	0	0	0	0	0
FGF2	0	0	0	0	0	0
FGF20	0	0	0	0	0	0
FGF21	0	0	0	0	0	0
FGF22	0	0	0	0	0	2
FGF23	0	0	0	0	0	2
FGF3	0	0	0	0	0	0
FGF4	0	0	0	0	0	0
FGF5	0	0	0	0	0	0
FGF6	0	0	0	0	0	0
FGF7	0	0	0	0	1,584962501	2
FGF8	0	0	0	0	0	0
FGF9	4,169925001	4,906890596	4,906890596	6,700439718	6,375039431	7,169925001
FGFBP1	0	0	0	0	0	0
FGFBP2	7,87036472	8,159871337	7,977279923	7,076815597	7,451211112	6,491853096
FGFBP3	3,906890596	2,584962501	4,459431619	5,247927513	3,700439718	3,169925001
FGFR1	5,491853096	5,321928095	5,044394119	6	6,087462841	3,169925001
FGFR1OP	5,584962501	5,614709844	5,209453366	6,266786541	5,930737338	5,554588852
FGFR1OP2	9,890264277	9,776433032	9,56414949	9,642051693	9,59058705	9,73470962
FGFR2	0	2,321928095	1,584962501	0	0	2
FGFR3	0	0	0	0	1,584962501	0
FGFR4	0	0	0	0	0	0
FGFRL1	4	3,321928095	4,392317423	4,087462841	3,700439718	4,321928095
FGG	0	0	1	0	0	0
FGGY	3,459431619	3,584962501	3,906890596	3,807354922	5,930737338	6,965784285
FGL1	0	0	0	0	0	0
FGL2	11,40301202	11,31741261	11,23421868	5,357552005	5,781359714	4,64385619
FGR	7,900866808	8,257387843	8,339850003	5,247927513	6,044394119	5,700439718
FH	6,475733431	6,409390936	6,672425342	5,357552005	5,727920455	5,554588852
FHAD1	4,392317423	4,523561956	5,247927513	1	3	0
FHDC1	2,321928095	1,584962501	1,584962501	2,807354922	0	0
FHIT	3	4,087462841	4,700439718	6,409390936	6,375039431	6,930737338
FHL1	1,584962501	2,584962501	2,584962501	0	0	0
FHL2	0	0	0	0	0	0
FHL3	4,64385619	4,584962501	4,64385619	2,321928095	3,700439718	0
FHL5	0	0	0	0	0	0
FHOD1	7,159871337	7,6794801	7,554588852	6,62935662	6,614709844	5,554588852
FHOD3	0	0	0	0	0	2
FIBCD1	0	0	0	0	0	0
FIBIN	0	0	0	0	0	0
FIBP	5,832890014	5,459431619	5,614709844	4,087462841	4,64385619	2
FICD	5,672425342	5,672425342	5,321928095	3,807354922	3,321928095	0
FIG4	5,807354922	5,64385619	5,930737338	4,321928095	4,247927513	2

FIGLA	0	0	0	0	0	0
FIGN	3,807354922	3,169925001	2,807354922	5,129283017	5,727920455	6,491853096
FIGNL1	5,930737338	5,882643049	6,06608919	5,523561956	5,857980995	3,807354922
FILIP1	1,584962501	2,584962501	2	3,321928095	1,584962501	2
FILIP1L	2,807354922	4,169925001	3,321928095	5,129283017	4,247927513	4,95419631
FIP1L1	8,618385502	8,689997971	8,562242424	9,394462695	9,167418146	9,385862401
FIS1	5,044394119	5,554588852	5,857980995	5,247927513	5,169925001	5,700439718
FITM1	0	0	0	1	0	0
FITM2	3,807354922	3,700439718	4,584962501	3,807354922	0	4,95419631
FIZ1	3,459431619	3,321928095	2,807354922	4,321928095	3	3,169925001
FJX1	0	0	0	0	1,584962501	0
FKBP10	0	0	0	0	0	2
FKBP11	4,523561956	5,554588852	5,169925001	6,129283017	4,95419631	5,95419631
FKBP14	4	4,459431619	5,209453366	0	3,700439718	3,169925001
FKBP15	7,876516947	7,888743249	8,044394119	6,768184325	7,209453366	7,209453366
FKBP1A	7,531381461	7,636624621	7,577428828	7,022367813	7,312882955	6,409390936
FKBP1B	2,807354922	2,807354922	2	1	0	0
FKBP2	7,900866808	7,936637939	7,813781191	7,339850003	7,266786541	7,129283017
FKBP3	8,927777962	8,832890014	8,618385502	9,103287808	9,233619677	9,247927513
FKBP4	5,781359714	5,672425342	5,169925001	5,357552005	5,554588852	5,554588852
FKBP5	7,930737338	7,839203788	7,912889336	8,087462841	7,864186145	7,994353437
FKBP6	0	0	0	0	0	0
FKBP7	1,584962501	2,321928095	2	1	2,321928095	3,169925001
FKBP8	3,459431619	4,321928095	4,64385619	4,700439718	5,169925001	5,169925001
FKBP9	2,321928095	0	0	0	0	0
FKBPL	3	2,321928095	3	0	1,584962501	2
FKRP	3,459431619	4,392317423	3,906890596	4,321928095	4	4,64385619
FKTN	5,129283017	4,95419631	4,906890596	5,247927513	5,285402219	5,169925001
FLAD1	5,906890596	5,426264755	5,906890596	5	5,169925001	6,491853096
FLCN	7,139551352	7,14974712	7,14974712	6,820178962	6,965784285	6,754887502
FLG	0	0	0	0	0	3,169925001
FLG2	0	0	0	0	0	0
FLI1	8,45532722	8,409390936	8,475733431	8,503825738	8,45532722	8,475733431
FLII	7,515699838	7,451211112	7,77478706	7,055282436	7,366322214	7,129283017
FLNA	9,036173613	9,17990909	9,479780264	8,573647187	8,413627929	7,918863237
FLNB	5,247927513	5,392317423	5,882643049	6,845490051	5,857980995	6,169925001
FLNC	0	0	0	0	0	0
FLOT1	6,22881869	6,14974712	6,108524457	5,459431619	4,807354922	4,321928095
FLOT2	5,700439718	6,22881869	6,714245518	7	6,658211483	5,832890014
FLRT1	0	0	0	0	1,584962501	0
FLRT2	4,459431619	4,584962501	4,459431619	7	6,189824559	7,129283017
FLRT3	2,321928095	2,584962501	2	5	5,087462841	6,06608919
FLT1	4,169925001	3,906890596	3,321928095	4,857980995	4,807354922	4,95419631
FLT3	2,321928095	1,584962501	1	2,321928095	3	4,321928095
FLT3LG	0	0	1	0	1,584962501	0
FLT4	0	1	1,584962501	0	0	2
FLVCR1	5,285402219	5,169925001	5,491853096	4,700439718	5,727920455	4,95419631
FLVCR2	7,339850003	7,357552005	6,942514505	3,321928095	2,321928095	4,95419631
FLYWCH1	3	4,087462841	4,64385619	5	3	0
FLYWCH2	4,247927513	4,700439718	4,087462841	3,321928095	3	0
FMN1	5,209453366	5,129283017	5,321928095	0	2,321928095	2
FMN2	1	0	1,584962501	0	4,64385619	3,807354922
FMNL1	7,554588852	7,900866808	7,900866808	8,103287808	7,851749041	7,312882955
FMNL2	5,584962501	4,95419631	5,321928095	3,807354922	0	3,807354922
FMNL3	6,189824559	6,523561956	6,523561956	5,247927513	5,930737338	5,95419631
FMO1	2,321928095	1	0	2,321928095	3	3,169925001
FMO2	0	0	0	0	0	2
FMO3	0	0	0	0	0	0

FMO4	1	2,584962501	2	1	1,584962501	0
FMO5	2,584962501	2,807354922	3,584962501	0	1,584962501	0
FMO6P	1	0	0	0	0	0
FMO9P	0	0	0	0	0	0
FMOD	0	0	0	1	0	0
FMR1	8,640244936	8,392317423	8,214319121	8,459431619	8,14974712	8,531381461
FMR1-AS1	0	0	0	0	1,584962501	3,807354922
FMR1NB	0	0	0	0	0	2
FN1	1,584962501	1	2	3,321928095	2,321928095	3,169925001
FN3K	0	0	0	0	0	0
FN3KRP	5,426264755	5,357552005	5,321928095	4,321928095	4,459431619	3,807354922
FNBP1	10,29232163	10,25148241	10,25384748	10,67154107	10,5849625	10,54689446
FNBP1L	2,807354922	4,087462841	3	5,357552005	4,459431619	6,06608919
FNBP4	9,461479447	9,348728154	9,599912842	9,992938336	9,74819285	10,12670447
FNDC1	0	0	1	0	0	0
FNDC3A	8,071462363	7,820178962	7,900866808	7,169925001	7,108524457	7,721099189
FNDC3B	8,370687407	8,569855608	8,409390936	6,906890596	6,965784285	7,247927513
FNDC4	0	0	0	0	0	0
FNDC5	0	0	0	1	1,584962501	4,321928095
FNDC7	0	0	0	2,807354922	0	5,357552005
FNDC8	0	0	0	0	0	0
FNDC9	0	0	0	0	0	0
FNIP1	8,164906927	8,144658243	8,174925683	7,906890596	8,022367813	7,894817763
FNIP2	7,813781191	7,672425342	7,592457037	5,930737338	6,50779464	6,321928095
FNTA	7,129283017	7,238404739	7,098032083	7,839203788	7,820178962	7,942514505
FNTB	4,523561956	5,044394119	3,906890596	4,857980995	4	3,169925001
FOLH1	0	0	0	0	0	0
FOLH1B	0	0	0	0	0	0
FOLR1	0	0	0	0	0	0
FOLR2	0	0	0	0	0	0
FOLR3	0	3,169925001	1,584962501	0	0	0
FOPNL	7,839203788	7,768184325	7,64385619	7,754887502	7,832890014	7,592457037
FOS	9,985841937	10,09275714	9,245552706	5,614709844	6,129283017	6,491853096
FOSB	5,392317423	5,977279923	4,247927513	0	0	0
FOSL1	1	1	0	0	0	0
FOSL2	8,049848549	8,257387843	8,209453366	8,124121312	8,584962501	7,539158811
FOXA1	0	0	0	1	1,584962501	0
FOXA2	0	0	0	1	0	3,169925001
FOXA3	0	0	0	0	0	0
FOX81	2,584962501	2,807354922	2,584962501	4,523561956	5,554588852	6,06608919
FOX82	0	0	0	0	0	0
FOXC1	0	0	2,584962501	0	0	0
FOXC2	1	1,584962501	1	4,700439718	5,169925001	5,700439718
FOX1D	0	0	0	0	0	0
FOX2D	2,807354922	4	1,584962501	2,321928095	3	3,169925001
FOX3D	0	0	0	0	0	0
FOX4D	0	0	0	0	0	0
FOX4D1	0	0	0	0	0	2
FOX4D3	0	0	0	0	0	0
FOX4D4	0	0	0	0	0	0
FOX4D5	0	0	0	0	0	0
FOX4D6	0	0	0	0	0	0
FOX1E	0	0	0	0	0	0
FOX3E	0	0	0	0	0	2
FOX1F	0	0	0	0	0	0
FOX2F	0	0	0	0	0	0
FOX1G	1	0	0	0	0	0
FOX1H	0	0	0	0	0	0

FOX11	0	0	0	0	0	3,169925001
FOX12	0	0	0	0	0	0
FOX13	0	0	0	0	0	0
FOXJ1	0	0	0	2,321928095	3	3,169925001
FOXJ2	7,451211112	7,930737338	7,73470962	7,727920455	7,832890014	7,761551232
FOXJ3	7,658211483	7,375039431	7,442943496	8,276124405	8,299208018	8,290018847
FOXK1	7,754887502	7,73470962	8,118941073	8,764871591	8,74819285	8,927777962
FOXK2	6,700439718	6,754887502	6,672425342	7,409390936	7,247927513	7,348728154
FOXL1	0	0	0	0	0	0
FOXL2	0	0	0	0	0	0
FOXN1	0	1,584962501	0	0	1,584962501	0
FOXN2	8,14974712	7,721099189	8,011227255	7,129283017	7,266786541	7,169925001
FOXN3	9,011227255	8,982993575	8,985841937	8,592457037	8,64385619	8,463524373
FOXN4	0	0	0	0	0	0
FOXO1	8,06608919	8,312882955	8,027905997	8,696967526	8,54689446	8,636624621
FOXO3	6,807354922	6,599912842	6,409390936	6,584962501	6,087462841	6,882643049
FOXO3B	0	0	0	0	0	0
FOXO4	5,169925001	5,614709844	5,392317423	2,807354922	3,700439718	0
FOXP1	10,38154295	10,5028318	10,56605404	11,01402047	10,88493365	11,027906
FOXP2	3,700439718	3,169925001	2,584962501	4,087462841	5,857980995	6,700439718
FOXP3	2,584962501	3,321928095	3,584962501	2,321928095	2,321928095	0
FOXP4	3,459431619	3,584962501	1	2,321928095	1,584962501	0
FOXQ1	0	0	0	0	0	0
FOXR1	0	0	0	1	0	0
FOXR2	0	0	0	0	0	0
FOXRED1	2,807354922	3	3,169925001	4,321928095	4,247927513	3,169925001
FOXRED2	4,459431619	4,392317423	4	0	0	0
FOXS1	0	0	0	0	0	0
FPGS	5,285402219	5,044394119	4,247927513	3,321928095	3,321928095	0
FPGT	5,523561956	4,392317423	5	2,321928095	4	3,169925001
FPGT-TNNI3K	2,584962501	3,321928095	3,321928095	5,247927513	5,087462841	6,62935662
FPR1	5,781359714	6,044394119	6,044394119	4,523561956	5,169925001	3,169925001
FPR2	5,285402219	5,459431619	5,614709844	1	3,321928095	3,169925001
FPR3	9,850186838	9,903881846	9,63481105	2,321928095	3,700439718	3,169925001
FRA10AC1	8,665335917	8,50779464	8,703903573	9,350939182	9,400879436	9,56414949
FRAS1	1	1	1,584962501	2,807354922	4,247927513	4,321928095
FRAT1	6,409390936	6,442943496	6,303780748	6	6,129283017	6,491853096
FRAT2	6,539158811	6,523561956	6,392317423	5,832890014	5,64385619	4,95419631
FREM1	1	0	0	2,321928095	1,584962501	0
FREM2	1	1,584962501	0	2,807354922	3,321928095	0
FREM3	2,807354922	2,584962501	2,584962501	5,614709844	5,169925001	5,169925001
FRG1	8,447083226	8,299208018	8,06608919	7,839203788	8,033423002	7,918863237
FRG2	0	0	0	0	0	0
FRG2B	0	0	0	0	0	0
FRG2C	0	0	0	0	0	0
FRK	0	0	1,584962501	1	0	0
FRMD1	0	0	0	0	0	0
FRMD3	5,523561956	5,129283017	5	6,266786541	5,554588852	7,209453366
FRMD4A	2,807354922	3	2	3,807354922	5,087462841	4,95419631
FRMD4B	6,672425342	6,918863237	6,475733431	5,129283017	6,247927513	6,409390936
FRMD5	0	0	0	0	0	0
FRMD6	2,321928095	3,584962501	2,584962501	0	0	0
FRMD7	0	0	0	0	0	0
FRMD8	8,071462363	8,233619677	7,707359132	7,14974712	7,74819285	5,95419631
FRMD8P1	0	0	0	0	0	0
FRMPD1	0	0	0	0	0	0
FRMPD2	0	0	0	0	0	0

FRMPD4	0	0	0	0	0	0
FRRS1	1	0	0	0	0	0
FRS2	6,658211483	6,209453366	6,50779464	6,845490051	6,882643049	6,930737338
FRS3	2,584962501	2,584962501	0	0	0	0
FRY	6,189824559	6,285402219	6,169925001	5,832890014	7,022367813	7,247927513
FRYL	8,554588852	8,335390355	8,422064766	8,661778098	8,724513853	8,700439718
FRZB	3,321928095	1	2,807354922	3,321928095	3,700439718	5,169925001
FSBP	1	0	0	0	0	0
FSCB	0	0	0	0	0	0
FSCN1	5,727920455	6,044394119	6,129283017	4,087462841	4,247927513	2
FSCN2	0	0	0	0	0	0
FSCN3	0	0	0	3,321928095	0	2
FSD1	0	0	0	0	0	0
FSD1L	4,95419631	4,087462841	4,906890596	4,523561956	4,247927513	3,169925001
FSD2	1	3	1,584962501	5,357552005	3,700439718	5,95419631
FSHB	0	0	0	0	0	0
FSHR	0	0	0	0	0	0
FSIP1	1,584962501	2,584962501	2	0	2,321928095	0
FSIP2	3,321928095	0	2	2,321928095	2,321928095	4,321928095
FST	2,807354922	2,321928095	2	2,807354922	2,321928095	4,64385619
FSTL1	0	1,584962501	1,584962501	0	0	0
FSTL3	1,584962501	0	0	0	0	0
FSTL4	0	0	1,584962501	0	2,321928095	0
FSTL5	0	0	0	0	0	0
FTCD	0	0	0	0	0	0
FTH1	11,47015044	11,36358725	11,26912668	9,611024797	9,77148947	9,620219826
FTH1P3	0	1,584962501	0	0	1,584962501	0
FTHL17	0	0	0	0	0	0
FTL	11,74315139	11,84549005	11,99753235	9,350939182	9,781359714	9,240791332
FTLP10	0	0	0	0	0	0
FTMT	0	0	0	0	0	0
FTO	6	5,807354922	5,426264755	6,820178962	6,189824559	6,491853096
FTSJ1	5,882643049	6,129283017	6,169925001	5,459431619	5,727920455	5,169925001
FTSJ3	6,189824559	6,129283017	6,321928095	6,266786541	6,285402219	6,820178962
FTX	8,262094845	8,118941073	8,636624621	8,285402219	7,942514505	8,54303182
FUBP1	9,86727874	9,971543554	10,04028972	10,32080055	10,18611424	10,16616308
FUBP3	7,348728154	7,348728154	7,46760555	7,672425342	7,768184325	8,06608919
FUCA1	10,79522797	10,66533592	10,72706956	5,523561956	4,64385619	4,321928095
FUCA2	6,491853096	6,22881869	6,303780748	0	3	4,64385619
FUK	3,906890596	3,906890596	3,584962501	5,129283017	4,247927513	2
FUNDC1	6,266786541	6,475733431	6,169925001	6,741466986	6,321928095	6,169925001
FUNDC2	5,392317423	4,584962501	4,087462841	3,321928095	5,781359714	5,700439718
FUNDC2P2	0	0	0	0	0	0
FURIN	7,948367232	8,071462363	8,027905997	8,531381461	8,535275377	8,714245518
FUS	9,537218401	9,661778098	9,758223215	9,62935662	9,625708843	9,469641817
FUT1	0	0	1	0	0	0
FUT10	3,459431619	3	3	2,807354922	2,321928095	0
FUT11	7,87036472	8	7,982993575	7,459431619	7,820178962	7,209453366
FUT2	0	0	0	0	0	2
FUT3	0	0	0	2,807354922	1,584962501	5,169925001
FUT4	6	5,64385619	5,754887502	2,321928095	3,700439718	0
FUT5	0	0	0	1	0	0
FUT6	0	0	0	0	0	0
FUT7	1,584962501	0	1,584962501	0	0	0
FUT8	5,807354922	5,584962501	5,129283017	7,14974712	7,044394119	6,930737338
FUT9	0	1	0	0	1,584962501	3,807354922
FUZ	1,584962501	2,321928095	3,700439718	1	3,700439718	2
FUXN	5,209453366	5,169925001	5,459431619	4,857980995	4,807354922	3,169925001

FXR1	8,997179481	8,903881846	8,842350343	9,436711542	9,271463028	9,487840034
FXR2	5,700439718	5,857980995	5,781359714	6,459431619	6,832890014	6,882643049
FXYD1	0	0	0	0	1,584962501	0
FXYD2	1	1	0	0	2,321928095	0
FXYD3	0	0	0	0	0	0
FXYD4	0	0	0	0	0	0
FXYD5	7,539158811	7,832890014	8,016808288	8,426264755	8,54689446	8,087462841
FXYD6	3,321928095	3,700439718	3,700439718	1	0	2
FXYD6-FXYD2	0	0	0	0	0	0
FXYD7	1	3	2	4,321928095	4,64385619	4,321928095
FYCO1	5,614709844	5,044394119	5,321928095	6,768184325	6,459431619	6,62935662
FYN	9,856425529	9,980139578	10,07146236	10,98441846	10,87036472	10,79522797
FYTTD1	8,714245518	8,614709844	8,447083226	8,539158811	8,977279923	8,73470962
FZD1	5,491853096	5	5,169925001	0	0	0
FZD10	0	0	0	0	0	0
FZD2	4,523561956	4,64385619	5	0	0	0
FZD3	5,672425342	6	6,22881869	6,845490051	7,383704292	7,894817763
FZD4	0	0	0	0	0	0
FZD5	4,523561956	3,584962501	3,321928095	0	0	2
FZD6	3,321928095	3,169925001	3,169925001	3,807354922	3	2
FZD7	3,584962501	2,584962501	3,169925001	0	1,584962501	3,169925001
FZD8	0	1,584962501	1	0	0	0
FZD9	0	0	0	0	0	0
FZR1	5,392317423	5,64385619	5,781359714	5,754887502	5,781359714	5,169925001
G0S2	4,584962501	4,700439718	4,584962501	4,857980995	5,781359714	4,64385619
G2E3	7,238404739	7,357552005	7,14974712	8,103287808	7,832890014	8,016808288
G3BP1	9,509775004	9,556506055	9,594324604	9,509775004	9,59058705	9,434628228
G3BP2	9,002815016	8,894817763	8,876516947	9,033423002	8,784634846	9,172427509
G6PC	0	0	0	0	0	0
G6PC2	0	0	0	0	0	0
G6PC3	3,906890596	3,807354922	3,584962501	0	0	0
G6PD	5,247927513	4,95419631	4,906890596	2,807354922	1,584962501	0
GAA	7,209453366	7,348728154	7,199672345	4,087462841	3,700439718	2
GAB1	4,523561956	4,169925001	4,754887502	4,087462841	4,459431619	5,169925001
GAB2	6,906890596	7,033423002	6,807354922	5,459431619	6,285402219	6,409390936
GAB3	5,906890596	6	6,087462841	5,832890014	5,857980995	6,247927513
GAB4	0	0	0	0	0	0
GABARAP	7,636624621	7,357552005	7,46760555	6,554588852	6,807354922	6,169925001
GABARAPL1	7,442943496	7,54689446	7,569855608	7,098032083	7,321928095	6,700439718
GABARAPL2	8,77148947	8,754887502	8,475733431	8,77148947	9,098032083	8,647458426
GABARAPL3	0	0	0	0	0	0
GABBR1	4,857980995	4,64385619	5,044394119	1	4	3,169925001
GABBR2	0	0	0	0	2,321928095	2
GABPA	6,930737338	6,50779464	6,409390936	7,22881869	6,918863237	7,055282436
GABPB1	6,22881869	6,614709844	6,491853096	8,159871337	7,74819285	8,330916878
GABPB2	7,209453366	7,607330314	7,189824559	7,285402219	7,022367813	7,247927513
GABRA1	1,584962501	0	0	3,807354922	0	4,321928095
GABRA2	0	0	0	2,807354922	1,584962501	0
GABRA3	0	0	0	0	0	0
GABRA4	3,459431619	2,321928095	3,169925001	4,700439718	0	5,169925001
GABRA5	0	0	0	0	0	2
GABRA6	0	0	0	0	0	0
GABRB1	1	1	1,584962501	4,087462841	4	4,95419631
GABRB2	3	3	3	4,523561956	5,857980995	6,247927513
GABRB3	0	1,584962501	0	3,807354922	3,700439718	3,169925001
GABRD	0	1	0	0	0	0
GABRE	0	0	0	0	0	0
GABRG1	0	1,584962501	1,584962501	0	0	0

GABRG2	0	3,321928095	2,807354922	4,523561956	5,285402219	6,700439718
GABRG3	0	2,321928095	1	3,321928095	2,321928095	3,169925001
GABRP	0	0	0	1	2,321928095	0
GABRQ	0	0	0	0	0	0
GABRR1	0	0	0	0	0	0
GABRR2	0	0	0	0	0	0
GABRR3	0	0	0	0	0	0
GAD1	0	0	0	0	0	0
GAD2	0	0	0	0	0	3,169925001
GADD45A	5,832890014	5,672425342	5,754887502	6,266786541	5,857980995	4,95419631
GADD45B	7,876516947	7,707359132	7,665335917	8,103287808	8,299208018	8,290018847
GADD45G	3,321928095	3,700439718	4,169925001	0	4,807354922	3,807354922
GADD45GIP1	5,930737338	6,129283017	5,857980995	5,523561956	5,459431619	3,807354922
GADL1	1	0	0	2,321928095	3	3,807354922
GAGE1	0	0	0	0	0	0
GAGE10	0	0	0	1	0	2
GAGE12B	0	0	0	0	0	0
GAGE12C	0	0	0	0	0	0
GAGE12D	0	0	0	0	0	0
GAGE12E	0	0	0	0	0	0
GAGE12F	0	0	0	0	0	0
GAGE12G	0	0	0	0	0	0
GAGE12H	0	0	0	0	0	0
GAGE12J	0	0	0	0	0	0
GAGE13	0	0	0	0	0	0
GAGE2A	0	0	0	0	0	0
GAGE2E	0	0	0	0	0	0
GAK	7,942514505	7,930737338	8,082149041	8,124121312	8,103287808	8,049848549
GAL	0	0	0	0	0	0
GAL3ST1	0	0	0	5,930737338	4,247927513	5,357552005
GAL3ST2	0	0	0	0	0	0
GAL3ST3	0	0	0	0	0	0
GAL3ST4	1	1	1,584962501	2,321928095	3,321928095	3,169925001
GALC	6,62935662	6,882643049	6,375039431	6,22881869	6,741466986	6,409390936
GALE	4	3	4,247927513	2,807354922	3,700439718	0
GALK1	4,95419631	4,64385619	4,754887502	1	0	0
GALK2	6,882643049	6,882643049	6,820178962	7,459431619	7,209453366	8,06608919
GALM	6,95419631	7,055282436	7,357552005	6,794415866	7	6,247927513
GALNS	6,95419631	6,714245518	6,942514505	4,857980995	5,459431619	3,169925001
GALNT1	8,511752654	8,491853096	8,22881869	7,554588852	7,707359132	6,965784285
GALNT10	6,426264755	6,087462841	6,491853096	6,554588852	6,918863237	7,055282436
GALNT11	7,375039431	7,491853096	6,832890014	6,794415866	7	6,62935662
GALNT12	3,321928095	3,584962501	3,584962501	0	0	0
GALNT13	1	0	0	0	0	2
GALNT14	0	0	0	0	0	0
GALNT2	7,159871337	6,857980995	7,189824559	7,14974712	7,17990909	7,169925001
GALNT3	4,95419631	4,857980995	4,906890596	4,700439718	5,285402219	5,554588852
GALNT4	0	0	0	0	0	0
GALNT5	4	4	4,247927513	6,266786541	6,832890014	7,098032083
GALNT6	4,906890596	5,459431619	4,95419631	4,523561956	5,087462841	4,64385619
GALNT7	6,965784285	7	7,14974712	6,768184325	6,807354922	5,554588852
GALNT8	0	0	0	1	0	0
GALNT9	0	0	0	0	1,584962501	0
GALNTL5	1	0	0	0	0	0
GALNTL6	1	0	0	0	0	0
GALP	0	0	0	0	0	0
GALR1	2,584962501	0	0	5,129283017	3	5,554588852
GALR2	0	0	0	0	0	0

GALR3	0	0	0	0	0	0
GALT	5,614709844	5,727920455	5,930737338	6,189824559	6,129283017	6,06608919
GAMT	2,584962501	2,321928095	2,584962501	0	2,321928095	0
GAN	6,266786541	5,857980995	6,266786541	6,409390936	6,285402219	6,569855608
GANAB	8,523561956	8,77478706	8,882643049	9,063395081	9,033423002	9,189824559
GANC	6,022367813	5,285402219	5,554588852	5,754887502	6,189824559	5,700439718
GAP43	0	0	0	1	0	3,807354922
GAPDH	9,426264755	9,818582177	9,945443836	9,273795599	9,887220615	8,569855608
GAPDHS	0	0	0	0	0	0
GAPT	7,266786541	6,768184325	6,906890596	4,523561956	4,459431619	3,169925001
GAPVD1	8,159871337	7,8008999	7,930737338	7,851749041	7,693486957	8,257387843
GAR1	7,055282436	6,599912842	6,754887502	6,820178962	6,658211483	6,62935662
GARNL3	2,584962501	0	1,584962501	2,321928095	1,584962501	3,169925001
GARS	6,539158811	6,599912842	6,044394119	7,076815597	6,918863237	7,098032083
GART	6,569855608	6,62935662	6,339850003	6,845490051	6,539158811	7,055282436
GAS1	1,584962501	2,807354922	0	1	0	0
GAS2	1	2,321928095	0	0	2,321928095	0
GAS2L1	5,781359714	5,727920455	5,491853096	2,321928095	3	2
GAS2L2	0	0	0	0	0	2
GAS2L3	4,584962501	4,754887502	4,95419631	2,807354922	2,321928095	4,321928095
GAS5	7,375039431	7,569855608	7,592457037	9,076815597	9,13442632	9,21916852
GAS6	2,584962501	3,321928095	3	2,321928095	0	3,169925001
GAS7	8,539158811	8,603626345	8,531381461	7,209453366	7,22881869	6,930737338
GAS8	2,321928095	3	3,321928095	0	0	4,64385619
GAST	0	0	0	0	0	0
GATA1	0	0	0	0	0	0
GATA2	7,672425342	7,599912842	7,658211483	6,321928095	6,857980995	6,06608919
GATA3	8,948367232	8,900866808	8,960001932	9,283088353	9,407267764	9,049848549
GATA4	0	0	0	0	0	0
GATA5	0	0	0	0	0	0
GATA6	0	0	1	0	0	0
GATAD1	6,807354922	6,965784285	6,857980995	7,22881869	6,321928095	7,055282436
GATAD2A	7,46760555	7,475733431	7,741466986	8,357552005	8,321928095	8,087462841
GATAD2B	7,882643049	7,906890596	8,189824559	8,661778098	8,714245518	8,744833837
GATC	6,942514505	6,977279923	7,076815597	6,820178962	6,942514505	5,357552005
GATM	3,807354922	3,584962501	3,906890596	0	4,247927513	4,321928095
GBA	2,584962501	1	1	0	0	0
GBA2	5,700439718	5,672425342	5,491853096	4,523561956	4,459431619	4,95419631
GBA3	0	0	0	0	0	0
GBAP1	0	0	0	0	0	0
GBE1	6,491853096	6,832890014	6,523561956	5,832890014	6,375039431	5,357552005
GBF1	5,727920455	5,321928095	5,392317423	5,523561956	5,392317423	5,832890014
GBGT1	5,044394119	5	4,95419631	2,321928095	1,584962501	2
GBP1	11,29289676	11,24555271	11,2227949	8,936637939	9,375039431	9,73809226
GBP1P1	4,857980995	5,044394119	4,857980995	3,807354922	5,169925001	5,554588852
GBP2	10,46964182	10,4252159	10,4604559	9,577428828	9,893301531	9,836050355
GBP3	7,515699838	7,312882955	7,098032083	7,022367813	7,17990909	7,098032083
GBP4	10,09407769	10,06069593	9,982993575	9,366322214	9,611024797	9,797661526
GBP5	11,00632608	10,97513146	11,05596023	9,769837844	9,949826711	10,23840474
GBP6	2,807354922	3	2,807354922	5,247927513	3	5,169925001
GBP7	4,857980995	4,754887502	4,584962501	4,857980995	4,95419631	6,169925001
GBX1	0	0	0	0	0	0
GBX2	0	0	0	0	0	0
GC	0	0	0	0	0	0
GCA	7,900866808	7,761551232	7,768184325	5,459431619	6,285402219	5,554588852
GCAT	0	0	0	0	0	0
GCC1	6,569855608	6,807354922	6,459431619	7,266786541	7,523561956	7,276124405
GCC2	10,48884435	10,25738784	10,32305476	10,70043972	10,45121111	10,73386272

GCDH	4,321928095	4,584962501	5,357552005	2,321928095	4	3,169925001
GCFC2	5,554588852	5,129283017	5	4,523561956	5,169925001	3,169925001
GCG	0	0	0	2,321928095	0	0
GCGR	0	0	0	0	0	3,169925001
GCH1	8,164906927	8,388017285	8,129283017	6,820178962	7,022367813	6,247927513
GCHFR	3,807354922	3,321928095	3,584962501	3,321928095	4,95419631	4,321928095
GCK	0	0	0	0	0	0
GCKR	0	0	0	0	0	0
GCLC	7,74819285	7,665335917	7,721099189	6,06608919	6,321928095	5,554588852
GCLM	7,199672345	7,209453366	7,087462841	7,614709844	7,73470962	7,592457037
GCM1	0	0	0	4,321928095	3,321928095	4,321928095
GCM2	0	0	0	0	0	0
GCNT1	6,129283017	6	5,95419631	4,321928095	4,247927513	3,169925001
GCNT2	5,614709844	5,614709844	5,247927513	3,321928095	3	3,169925001
GCNT3	0	0	0	0	0	0
GCNT4	6,375039431	6,22881869	5,977279923	7,442943496	7,312882955	7,011227255
GCNT7	0	0	0	0	0	0
GCOM1	0	1	0	2,321928095	1,584962501	2
GCSH	2,321928095	0	2,584962501	0	2,321928095	2
GDA	1,584962501	1,584962501	1	2,807354922	3,321928095	0
GDAP1	4	4,857980995	4,087462841	5,700439718	5,64385619	6,321928095
GDAP1L1	0	0	0	0	0	0
GDAP2	6,714245518	6,714245518	6,614709844	6,375039431	6,459431619	6,62935662
GDE1	7,539158811	7,531381461	7,577428828	7,076815597	7,209453366	7,011227255
GDF1	0	0	0	0	0	0
GDF10	2,321928095	0	0	0	0	0
GDF11	5,247927513	5,584962501	5,700439718	4,857980995	4,95419631	4,64385619
GDF15	1,584962501	3,700439718	3,584962501	1	0	0
GDF2	0	0	0	0	0	0
GDF3	0	0	0	0	0	0
GDF5	0	0	0	4,087462841	3,700439718	4,64385619
GDF6	0	0	0	0	0	0
GDF7	2,321928095	2,584962501	2	4,700439718	3,700439718	5,832890014
GDF9	0	1	1	2,807354922	1,584962501	2
GDI1	5,357552005	5,727920455	5,906890596	5,459431619	6,044394119	5,700439718
GDI2	9,396604781	9,348728154	9,136991112	9,030667136	9,098032083	8,857980995
GDNF	0	1	0	0	1,584962501	0
GDPD1	3,700439718	3,321928095	3,700439718	2,807354922	0	2
GDPD2	0	0	0	0	0	0
GDPD3	3,906890596	3,906890596	3,169925001	3,807354922	3,700439718	2
GDPD4	0	0	0	0	0	0
GDPD5	3,700439718	3,906890596	4,247927513	5,129283017	5,169925001	3,169925001
GEM	0	0	0	0	0	0
GEMIN2	4,64385619	4,523561956	4,700439718	2,321928095	4	3,169925001
GEMIN4	4,523561956	4,857980995	4,857980995	5,129283017	5,392317423	3,807354922
GEMIN5	5,426264755	5,554588852	5,321928095	5,357552005	5,727920455	5,554588852
GEMIN6	4,906890596	5,169925001	4,247927513	5,614709844	4,64385619	5,357552005
GEMIN7	4,392317423	4,95419631	5,044394119	3,321928095	4,64385619	2
GEMIN8	4	3,584962501	3,700439718	2,321928095	2,321928095	0
GEMIN8P4	0	0	0	0	0	0
GEN1	4,906890596	4,95419631	5,426264755	5,129283017	5,285402219	3,807354922
GET4	0	1,584962501	1	0	3	0
GFAP	0	0	0	0	0	0
GFER	4,247927513	4,169925001	4,95419631	3,321928095	4	0
GFI1	5,523561956	6,22881869	5,727920455	6,906890596	6,584962501	6,62935662
GFI1B	0	0	1	2,321928095	1,584962501	3,807354922
GFM1	7,930737338	7,87036472	7,820178962	7,851749041	7,209453366	7,491853096
GFM2	5,129283017	5	4,64385619	4,523561956	3,700439718	4,64385619

GFOD1	6,988684687	6,918863237	7,139551352	7,22881869	7,247927513	7,312882955
GFOD2	4,392317423	4,906890596	4,459431619	5,129283017	5,169925001	5,554588852
GFPT1	7,303780748	7,199672345	7,14974712	6,977279923	6,882643049	7,209453366
GFPT2	0	1,584962501	0	1	2,321928095	0
GFRA1	1	0	0	2,321928095	2,321928095	2
GFRA2	1,584962501	1,584962501	1	4,523561956	3,700439718	3,169925001
GFRA3	0	0	0	0	0	0
GFRA4	0	0	0	0	0	0
GFRA1	0	0	0	0	0	0
GGA1	6,942514505	7,129283017	7,392317423	6,977279923	7,348728154	7,011227255
GGA2	7,475733431	7,569855608	7,483815777	7,554588852	7,539158811	7,562242424
GGA3	6,475733431	6,62935662	6,614709844	6,62935662	6,375039431	6,409390936
GGCT	6,62935662	6,857980995	6,321928095	5,459431619	5,727920455	5,554588852
GGCX	5,807354922	5,426264755	5,700439718	3,807354922	4	0
GGH	4,523561956	5	5,169925001	1	2,321928095	0
GGN	0	0	0	0	0	0
GGNBP1	0	0	0	0	0	0
GGNBP2	9,674192268	9,751544059	9,900866808	9,946906274	9,818582177	9,980139578
GGPS1	6,658211483	6,375039431	6,285402219	6,741466986	6,285402219	6,321928095
GGT1	2,321928095	2,321928095	1,584962501	2,321928095	1,584962501	2
GGT3P	0	0	0	0	0	0
GGT5	0	3	2,807354922	0	0	0
GGT6	0	0	0	0	0	0
GGT7	2,321928095	3	3,584962501	0	2,321928095	0
GGT8P	0	0	0	0	0	0
GGTA1P	4	4,459431619	3	2,807354922	0	0
GGTLC1	0	0	0	0	0	0
GGTLC2	0	0	0	0	0	0
GH1	0	0	0	0	0	0
GH2	0	0	0	0	0	0
GHDC	3,700439718	3,584962501	4,169925001	4,321928095	4	4,321928095
GHITM	9,301496195	9,405141463	9,204571144	9,131856961	9,317412614	8,971543554
GHR	1,584962501	0	2,584962501	0	0	2
GHRH	0	0	0	0	0	0
GHRHR	0	0	0	0	0	0
GHRL	1	0	0	0	0	3,169925001
GHRLOS	1,584962501	2,807354922	2	4,700439718	0	2
GHSR	0	0	0	0	0	0
GIF	0	0	0	0	0	0
GIGYF1	7,209453366	7,714245518	7,434628228	7	7,044394119	6,321928095
GIGYF2	8,95419631	8,903881846	8,933690655	9,535275377	9,337621902	9,539158811
GIMAP1	8,174925683	8,233619677	8,30833903	8,918863237	9,174925683	8,724513853
GIMAP2	8,144658243	7,95419631	8,139551352	8,339850003	8,558420713	8,426264755
GIMAP4	9,451211112	9,30833903	9,513727596	9,607330314	9,729620744	9,59058705
GIMAP5	5,209453366	5,285402219	5,807354922	6,845490051	6,189824559	6,491853096
GIMAP6	7,714245518	7,515699838	7,426264755	8,6794801	8,693486957	8,174925683
GIMAP7	10,23242093	10,32755264	10,4314976	10,86263736	10,94251451	10,87958325
GIMAP8	7,209453366	7,400879436	7,442943496	8,622051819	8,321928095	8,77807713
GIN1	5,727920455	5,426264755	5,523561956	5,832890014	6,658211483	6,321928095
GINS1	3,700439718	3,584962501	2,584962501	0	1,584962501	3,169925001
GINS2	1	0	1	3,321928095	1,584962501	5,357552005
GINS3	4,523561956	4,392317423	3,584962501	4,321928095	1,584962501	3,169925001
GINS4	3,321928095	4	3,169925001	3,807354922	2,321928095	2
GIP	0	0	0	0	0	0
GIPC1	4,459431619	5,459431619	5,754887502	5,459431619	5,781359714	4,64385619
GIPC2	0	0	0	0	0	3,169925001
GIPC3	0	1	2	2,321928095	1,584962501	0
GIPR	3	3	3,807354922	1	0	0

GIT1	4,857980995	4,857980995	4,700439718	5,247927513	4,95419631	4,64385619
GIT2	8,321928095	8,413627929	8,661778098	7,930737338	7,924812504	8,21916852
GJA1	0	0	0	0	0	0
GJA10	0	0	0	0	0	0
GJA3	2,321928095	0	0	0	0	0
GJA4	0	0	0	0	0	0
GJA5	0	0	0	0	0	0
GJA8	0	0	0	2,321928095	1,584962501	0
GJA9	0	0	0	0	0	0
GJB1	0	0	0	0	0	0
GJB2	2,807354922	3,169925001	3,169925001	0	2,321928095	0
GJB3	0	0	0	0	0	0
GJB4	0	0	0	0	0	0
GJB5	0	0	0	0	0	0
GJB6	1	0	0	3,807354922	1,584962501	3,169925001
GJB7	1	1,584962501	1,584962501	3,321928095	4,247927513	5,169925001
GJC1	0	2,584962501	1,584962501	4,857980995	4,247927513	5,169925001
GJC2	0	1	0	4,523561956	3,700439718	4,64385619
GJC3	0	0	0	0	0	0
GJD2	0	0	0	0	0	0
GJD3	0	0	0	0	0	0
GJD4	0	0	0	1	1,584962501	3,169925001
GK	6,794415866	6,714245518	7,033423002	5,129283017	4,95419631	4,64385619
GK2	2,321928095	1	1	2,807354922	0	4,321928095
GK3P	0	0	0	0	0	0
GK5	6,554588852	6,523561956	6,672425342	6,794415866	6,584962501	6,06608919
GKAP1	6,741466986	6,409390936	6,727920455	6,700439718	7,06608919	6,569855608
GKN1	2,584962501	0	1	2,321928095	3,321928095	0
GKN2	0	0	0	0	0	0
GLA	6,845490051	6,285402219	6,50779464	2,807354922	5,087462841	0
GLB1	7,982993575	8,451211112	8,413627929	6,375039431	6,321928095	6,700439718
GLB1L	0	0	0	0	0	3,169925001
GLB1L2	0	0	0	0	0	0
GLB1L3	1,584962501	1	0	0	2,321928095	0
GLCCI1	8,139551352	8,303780748	8,257387843	8,87958325	8,73809226	9,079484784
GLCE	4,700439718	4,169925001	4,392317423	0	1,584962501	0
GLDC	1	0	2	0	0	0
GLDN	0	0	0	0	0	0
GLE1	7,033423002	7,055282436	7,400879436	7,392317423	7,139551352	7,209453366
GLG1	9,283088353	9,436711542	9,243173983	9,319672121	9,45532722	9,087462841
GLI1	2,321928095	1	1	2,807354922	1,584962501	0
GLI2	0	0	0	0	0	0
GLI3	2,807354922	1	2	2,807354922	3,700439718	6,06608919
GLI4	1	3	1,584962501	0	1,584962501	0
GLIPR1	9,357552005	9,361943774	9,2644426	8,033423002	8,092757141	7,515699838
GLIPR1L1	0	0	0	0	0	0
GLIPR1L2	3	3	3,700439718	5,357552005	5,64385619	6,700439718
GLIPR2	8,204571144	8,199672345	8,129283017	6,189824559	6,741466986	6,321928095
GLIS1	0	0	0	0	0	0
GLIS2	0	1	1	0	2,321928095	0
GLIS3	0	0	2	4,321928095	4,459431619	4,95419631
GLIS3-AS1	0	0	0	0	0	0
GLMN	6	5,459431619	5,554588852	6,189824559	5,459431619	5,95419631
GLO1	7,491853096	7,50779464	7,569855608	7,531381461	7,614709844	7,851749041
GLOD4	7,475733431	7,531381461	7,276124405	7,982993575	8,044394119	7,700439718
GLOD5	0	0	0	0	0	0
GLP1R	0	0	0	0	0	0
GLP2R	0	0	0	1	0	0

GLRA1	0	0	0	0	0	0
GLRA2	1	0	0	0	0	0
GLRA3	0	1,584962501	1	0	0	4,64385619
GLRA4	0	0	0	0	0	0
GLRB	0	0	0	0	0	0
GLRX	8,214319121	8,159871337	7,8008999	6,129283017	6,918863237	6,930737338
GLRX2	7,238404739	7,14974712	7,118941073	6,50779464	6,459431619	6,569855608
GLRX3	6,475733431	6,475733431	6,459431619	6,554588852	6,768184325	6,569855608
GLRX5	7,348728154	7,442943496	7,434628228	7,409390936	7,50779464	7,209453366
GLS	9,413627929	9,381542951	9,477758266	8,936637939	8,933690655	8,982993575
GLS2	0	1,584962501	1	0	2,321928095	3,169925001
GLT1D1	5,700439718	6	5,392317423	1	1,584962501	0
GLT6D1	0	0	0	0	0	2
GLT8D1	5,807354922	5,357552005	6,22881869	6	5,781359714	5,700439718
GLT8D2	0	0	0	0	0	2
GLTP	5,426264755	5,169925001	5,426264755	5,129283017	5,169925001	4,321928095
GLTPD2	0	0	0	0	0	0
GLUD1	7,257387843	7,247927513	7,098032083	6,845490051	7,108524457	5,554588852
GLUD2	2,807354922	1,584962501	2	1	0	0
GLUL	10,08081753	10,13699111	9,941047606	6,584962501	6,965784285	6,569855608
GLYAT	0	0	0	0	0	0
GLYATL1	0	0	1	2,321928095	0	2
GLYATL2	0	0	0	0	0	0
GLYATL3	0	0	0	0	0	0
GLYCAM1	0	0	0	0	0	0
GLYCTK	2,807354922	2,807354922	1	0	0	0
GLYR1	8,033423002	7,721099189	7,658211483	8,113742166	7,820178962	7,787902559
GM2A	8,392317423	8,266786541	8,276124405	5,357552005	5,169925001	4,321928095
GMCL1	8	7,651051691	7,721099189	8,113742166	8,055282436	7,894817763
GMDS	4,584962501	4,700439718	4,754887502	3,321928095	3,321928095	2
GMEB1	7,129283017	7,491853096	7,366322214	7,459431619	7,417852515	7,562242424
GMEB2	6,686500527	6,781359714	6,339850003	7,076815597	7,247927513	7,055282436
GMFB	6,491853096	6,62935662	6,62935662	5,459431619	6,087462841	5,357552005
GMFG	7,936637939	8,17990909	7,960001932	7,658211483	7,781359714	7,539158811
GMIP	6,339850003	6,339850003	5,700439718	5,523561956	5,930737338	5,357552005
GML	0	0	0	0	0	0
GMNC	1	0	0	0	0	0
GMNN	5,044394119	5,247927513	5,209453366	3,321928095	3,700439718	0
GMPPA	4,459431619	4,392317423	4,392317423	0	3,321928095	0
GMPPB	4,459431619	4,700439718	4,459431619	0	1,584962501	0
GMPR	0	1	1	0	0	0
GMPR2	6,64385619	6,554588852	6,303780748	6,375039431	6,375039431	5,832890014
GMPS	6,539158811	6,357552005	6,22881869	7,076815597	6,965784285	6,321928095
GNA11	4,754887502	4,754887502	4,906890596	4,321928095	4,95419631	4,64385619
GNA12	7,754887502	7,857980995	7,554588852	6,768184325	6,918863237	6,247927513
GNA13	7,988684687	8,113742166	8,159871337	7,64385619	7,965784285	8,204571144
GNA14	0	1	0	0	0	0
GNA15	5,392317423	5,727920455	5,129283017	2,321928095	4,459431619	2
GNAI1	2,321928095	0	2,584962501	2,807354922	1,584962501	4,321928095
GNAI2	9,552669098	9,64385619	9,710806434	8,375039431	8,566054038	8,366322214
GNAI3	8,842350343	9,011227255	8,86727874	8,980139578	9,057991723	9,17990909
GNAL	4,321928095	3,807354922	3,584962501	4,700439718	4,95419631	4,95419631
GNAO1	4,169925001	2,807354922	4,087462841	3,807354922	3,700439718	0
GNAQ	8,807354922	8,581200582	8,686500527	7,813781191	7,820178962	7,977279923
GNAS	9,525520809	9,548821908	9,517669388	9,417852515	9,523561956	9,364134655
GNAS-AS1	0	0	0	0	0	0
GNAT1	0	0	0	0	0	0
GNAT2	0	0	0	0	0	0

GNAT3	0	1	0	0	0	0
GNAZ	1	0	2	1	0	2
GNB1	9,861086906	9,799281622	9,83447105	9,751544059	9,567956075	9,744833837
GNB1L	4	3,807354922	3,321928095	4,700439718	4,95419631	3,169925001
GNB2	7,022367813	7,614709844	7,442943496	6,22881869	6,375039431	6,169925001
GNB3	0	1	0	0	0	0
GNB4	8,515699838	8,50779464	8,312882955	3,807354922	5,727920455	5,357552005
GNB5	6,459431619	6,209453366	6,129283017	6,22881869	6,459431619	6,169925001
GNE	5,700439718	5,392317423	5,426264755	5,129283017	5,459431619	4,321928095
GNG10	4,169925001	4,321928095	4,906890596	4,087462841	3,321928095	3,169925001
GNG11	4,906890596	4,700439718	4,247927513	6,189824559	5,459431619	6,247927513
GNG12	0	0	0	0	0	0
GNG13	0	0	0	0	0	0
GNG2	8,21916852	7,918863237	7,982993575	8,918863237	8,794415866	8,714245518
GNG3	0	0	0	0	0	0
GNG4	2,321928095	1	2	5	4,807354922	3,807354922
GNG5	6,14974712	6,285402219	6,459431619	5,930737338	4,247927513	4,95419631
GNG7	5,392317423	5,584962501	5,727920455	6,584962501	6,741466986	6,169925001
GNG8	0	0	0	0	1,584962501	0
GNGT1	0	0	0	1	2,321928095	0
GNGT2	4	3,906890596	3,700439718	2,321928095	2,321928095	3,169925001
GNL1	5,882643049	6,044394119	6,459431619	7,409390936	6,942514505	7,813781191
GNL2	7,918863237	7,807354922	7,754887502	7,022367813	7,087462841	7,209453366
GNL3	7,515699838	7	6,857980995	8,103287808	7,977279923	8,366322214
GNL3L	4,700439718	4,857980995	5,426264755	4,523561956	4,807354922	3,169925001
GNLY	8,164906927	8,317412614	8,169925001	9,189824559	9,525520809	8,73470962
GNMT	1	0	0	2,807354922	3	3,807354922
GNPAT	6,64385619	6,62935662	6,727920455	6,930737338	6,918863237	7,46760555
GNPDA1	7,988684687	8,312882955	8,159871337	7,209453366	7,417852515	7,011227255
GNPDA2	5,700439718	5,392317423	5,727920455	5,700439718	5,392317423	5,832890014
GNPNAT1	6,50779464	6,22881869	6,409390936	5	5,169925001	4,95419631
GNPTAB	8,247927513	8,022367813	8,243173983	7,247927513	7,22881869	7,348728154
GNPTG	7,276124405	7,451211112	7,491853096	6,129283017	6,807354922	5,700439718
GNRH1	3,906890596	3,169925001	4	3,807354922	4	4,95419631
GNRH2	0	0	0	0	0	0
GNRHR	0	0	0	0	0	0
GNRHR2	0	0	0	0	0	0
GNS	8,592457037	8,804131021	8,447083226	5,930737338	5,459431619	5,554588852
GOLGA1	7,139551352	7,108524457	7,199672345	7,515699838	7,348728154	7,247927513
GOLGA2	7,562242424	7,876516947	7,768184325	7,321928095	7,312882955	7,491853096
GOLGA2P2Y	0	0	0	0	0	0
GOLGA2P3Y	0	0	0	0	0	0
GOLGA2P5	4,906890596	5,044394119	5,426264755	6	5,459431619	4,64385619
GOLGA3	8,174925683	8,076815597	7,882643049	8,434628228	8,243173983	8,531381461
GOLGA4	9,995767151	9,681238412	9,891783703	9,717676423	9,63481105	9,672425342
GOLGA5	6,700439718	6,459431619	6,87036472	6,845490051	6,375039431	6,247927513
GOLGA6A	0	0	0	0	0	0
GOLGA6B	0	0	0	0	0	0
GOLGA6C	0	0	0	0	0	0
GOLGA6D	0	0	0	0	0	0
GOLGA6L1	0	0	0	0	0	0
GOLGA6L10	1	0	0	2,321928095	3	0
GOLGA6L6	0	0	0	0	0	0
GOLGA6L9	3	3,700439718	3	3,321928095	2,321928095	0
GOLGA7	8,960001932	8,948367232	8,661778098	9,038918989	8,977279923	8,977279923
GOLGA7B	3	3,584962501	1,584962501	6	4,64385619	6,321928095
GOLGA8A	8,539158811	8,696967526	8,888743249	8,636624621	8,405141463	8,366322214
GOLGA8B	7,948367232	7,857980995	8,14974712	8,113742166	7,672425342	8,087462841

GOLGA8DP	0	0	0	0	0	0
GOLGA8F	0	0	0	0	0	0
GOLGA8G	0	0	0	0	0	0
GOLGB1	9,189824559	9,033423002	9,06608919	9,556506055	9,233619677	9,558420713
GOLIM4	7,971543554	7,693486957	7,768184325	4,700439718	5,554588852	6,247927513
GOLM1	4,169925001	3,700439718	3,700439718	1	1,584962501	3,169925001
GOLPH3	8,299208018	8,299208018	8,299208018	8,243173983	8,139551352	8,366322214
GOLPH3L	6,087462841	6,357552005	6,169925001	6,906890596	6,614709844	6,882643049
GOLT1A	0	0	0	0	0	0
GOLT1B	7,303780748	7,257387843	7,022367813	6,741466986	6,918863237	6,754887502
GON4L	7,17990909	7,076815597	7,592457037	7,864186145	7,912889336	8,016808288
GOPC	7,787036472	7,787902559	7,918863237	8,661778098	8,339850003	8,312882955
GORAB	5,807354922	5,523561956	5,95419631	5,247927513	5,727920455	5,95419631
GORASP1	5,807354922	5,087462841	5,321928095	4,087462841	2,321928095	4,321928095
GORASP2	7,8008999	7,614709844	7,348728154	7,700439718	8,071462363	8,299208018
GOSR1	7,665335917	7,584962501	7,74819285	8,562242424	8,21916852	8,491853096
GOSR2	6,475733431	6,727920455	6,882643049	7,098032083	7,022367813	7,348728154
GOT1	5,584962501	4,95419631	4,700439718	5,459431619	6,087462841	6,409390936
GOT1L1	0	0	0	0	0	2
GOT2	6,087462841	6,044394119	6,189824559	7,392317423	7,22881869	7,129283017
GP1BA	2,584962501	0	1	3,321928095	0	0
GP1BB	0	0	0	0	0	0
GP2	0	0	0	0	0	0
GP5	2,584962501	0	1,584962501	2,321928095	3	0
GP6	1	0	0	2,321928095	1,584962501	0
GP9	0	0	0	0	0	0
GPA33	3,321928095	3,700439718	4,087462841	4,857980995	4,64385619	0
GPAA1	5,357552005	5,554588852	5,459431619	5,247927513	5,087462841	3,807354922
GPAM	5,614709844	5,781359714	5,906890596	6,409390936	6,882643049	7,312882955
GPANK1	6,06608919	6,22881869	6,189824559	7,266786541	7,044394119	7,011227255
GPAT2	0	0	0	0	0	0
GPATCH1	5,727920455	5,727920455	5,727920455	6,22881869	6,129283017	6,247927513
GPATCH2	6,614709844	6,614709844	6,584962501	7,392317423	7,06608919	7,348728154
GPATCH3	4,321928095	4,64385619	4,169925001	4,700439718	5,169925001	4,64385619
GPATCH4	7,17990909	6,807354922	7,118941073	7,22881869	7,366322214	7,348728154
GPATCH8	8,344295908	8	8,511752654	8,724513853	8,672425342	8,95419631
GPBAR1	2,584962501	0	0	0	0	0
GPBP1	9,8008999	9,627533884	9,726218159	10,13314221	9,936637939	10,30378075
GPBP1L1	8,703903573	8,703903573	8,539158811	9,131856961	8,924812504	9,105908509
GPC1	0	1	0	0	0	0
GPC2	1,584962501	3	2	3,807354922	0	4,321928095
GPC3	0	0	1	0	0	0
GPC4	2,321928095	0	0	0	0	0
GPC5	0	0	0	0	0	0
GPC6	0	0	1,584962501	3,321928095	4	4,321928095
GPCPD1	8,654636029	8,707359132	8,682994584	8,357552005	8,491853096	8,330916878
GPD1	0	0	0	0	0	0
GPD1L	5,727920455	6,044394119	6,06608919	5,459431619	5,554588852	3,169925001
GPD2	7,614709844	7,636624621	7,515699838	6,06608919	5,781359714	5,169925001
GPHA2	0	0	0	0	0	0
GPHB5	0	0	0	0	0	0
GPHN	4,247927513	3,906890596	3,906890596	5	5,554588852	5,357552005
GPI	8,388017285	8,584962501	8,422064766	8,022367813	8,523561956	7,672425342
GPIHBP1	0	0	0	0	0	0
GPKOW	4,95419631	4,64385619	4,700439718	4,700439718	4,807354922	0
GPLD1	2,321928095	3,169925001	3,169925001	5,459431619	5,392317423	5,169925001
GPM6A	3,321928095	2,321928095	0	3,321928095	2,321928095	4,321928095
GPM6B	2,807354922	2,584962501	3,169925001	5,357552005	4,807354922	5,832890014

GPN1	7,622051819	7,768184325	7,930737338	7,129283017	7,209453366	7,247927513
GPN2	5,285402219	5,357552005	4,584962501	6,62935662	5,977279923	6,247927513
GPN3	6,321928095	6,392317423	6,044394119	5,523561956	4,95419631	6,569855608
GPNMB	9,97441459	10,06474276	9,661778098	4,523561956	4,247927513	3,807354922
GPR1	0	0	0	0	1,584962501	0
GPR101	0	0	0	0	0	0
GPR107	7,584962501	7,832890014	8,082149041	7,768184325	8,011227255	7,965784285
GPR108	5,209453366	5,169925001	5,209453366	2,807354922	3,321928095	3,169925001
GPR119	0	0	0	0	0	0
GPR12	0	0	0	1	0	0
GPR132	5,727920455	5,321928095	5,491853096	6	6,087462841	6,754887502
GPR135	1	0	1	2,321928095	0	0
GPR137	3,807354922	3,807354922	3,906890596	4,321928095	2,321928095	3,807354922
GPR137B	5,614709844	5,584962501	5,426264755	4,523561956	5,781359714	4,95419631
GPR137C	3,321928095	4	3,700439718	5,930737338	5,392317423	7,129283017
GPR139	0	0	0	0	0	0
GPR141	4	3	3,700439718	0	0	2
GPR142	0	0	0	0	0	0
GPR143	0	0	0	0	0	0
GPR146	4,321928095	2,321928095	3,321928095	1	4,247927513	3,807354922
GPR148	0	0	0	0	0	0
GPR149	0	0	0	0	0	0
GPR15	1	1,584962501	0	0	1,584962501	0
GPR150	1,584962501	0	0	0	0	0
GPR151	0	0	0	0	0	0
GPR152	0	0	0	0	0	0
GPR153	3,906890596	3,807354922	3,321928095	2,321928095	3,321928095	0
GPR155	7,321928095	7,209453366	7,614709844	8,77148947	8,209453366	9,071462363
GPR156	0	0	0	0	0	0
GPR157	5,169925001	5,523561956	5,209453366	1	3	0
GPR158	0	0	0	0	0	2
GPR160	5,285402219	5,357552005	5,129283017	2,807354922	4,64385619	0
GPR161	2,807354922	2,321928095	3,321928095	0	2,321928095	4,64385619
GPR162	3	3,169925001	3,584962501	0	0	0
GPR17	0	0	0	0	0	0
GPR171	8,21916852	7,787902559	7,994353437	8,661778098	8,614709844	8,348728154
GPR173	0	0	0	0	0	0
GPR174	6,781359714	6,768184325	6,87036472	7,768184325	7,707359132	7,672425342
GPR176	0	0	0	0	0	0
GPR179	0	0	0	0	0	0
GPR18	5,426264755	5,247927513	5,209453366	5,700439718	6,321928095	6,06608919
GPR180	6,599912842	6,339850003	6,64385619	6,06608919	6,285402219	5,554588852
GPR182	0	0	0	0	0	0
GPR183	8,74819285	8,686500527	8,519636253	8,459431619	8,682994584	8,426264755
GPR19	1	1,584962501	2,807354922	3,321928095	2,321928095	5,700439718
GPR20	0	1	0	0	3,321928095	0
GPR21	0	0	0	0	0	0
GPR22	1,584962501	1	1,584962501	1	1,584962501	2
GPR25	0	0	0	0	0	0
GPR26	0	0	1	1	2,321928095	2
GPR27	3,906890596	3,906890596	4,087462841	4,321928095	3	3,807354922
GPR3	0	0	0	0	0	0
GPR31	0	0	0	0	0	0
GPR32	0	0	0	0	0	0
GPR33	0	0	0	0	0	0
GPR34	4	2,584962501	3	0	2,321928095	0
GPR35	2,807354922	2,321928095	1,584962501	1	3	0
GPR37	0	0	0	1	0	3,169925001

GPR37L1	0	0	0	0	0	0
GPR39	0	0	0	0	0	0
GPR4	0	0	0	0	0	0
GPR45	0	0	0	0	0	0
GPR50	0	0	0	0	0	0
GPR52	0	0	0	0	0	0
GPR55	2,321928095	2,807354922	3,169925001	0	3	2
GPR6	0	0	0	0	0	0
GPR61	1,584962501	0	0	0	0	4,321928095
GPR62	0	0	0	0	0	0
GPR63	1	0	2	0	1,584962501	0
GPR65	9,092757141	8,845490051	8,744833837	8,573647187	8,845490051	8,379378367
GPR68	5,977279923	6,285402219	6,409390936	6,06608919	6,409390936	6,62935662
GPR75	0	0	0	0	0	0
GPR75-ASB3	0	0	0	0	0	0
GPR78	0	0	0	0	0	0
GPR82	1	2,807354922	0	0	1,584962501	0
GPR83	1	0	0	0	1,584962501	3,807354922
GPR84	3,700439718	4,321928095	4,247927513	0	0	0
GPR85	1	1,584962501	1	4,321928095	4,64385619	5,169925001
GPR87	0	0	0	0	0	0
GPR88	0	0	0	2,321928095	0	0
GPR89A	3,584962501	2,807354922	1	2,807354922	3,321928095	2
GPR89B	4	3,169925001	3,321928095	0	2,321928095	0
GPASP1	6,599912842	6,599912842	6,781359714	7,303780748	6,807354922	7,312882955
GPASP2	3,321928095	2,807354922	1,584962501	0	1,584962501	0
GPRC5A	0	0	0	3,321928095	3,700439718	3,169925001
GPRC5B	1,584962501	0	1	0	0	0
GPRC5C	0	0	0	1	0	0
GPRC5D	0	0	0	0	0	0
GPRC6A	0	0	0	0	0	0
GPRIN1	0	0	0	0	0	0
GPRIN2	0	0	0	0	0	0
GPRIN3	7,622051819	7,693486957	7,54689446	8,689997971	8,194756854	8,413627929
GPS1	4,754887502	4,64385619	5,321928095	5,459431619	3	4,321928095
GPS2	5,523561956	5,727920455	5,781359714	6,266786541	6,741466986	6,882643049
GPSM1	3,459431619	3,169925001	2,807354922	2,321928095	1,584962501	0
GPSM2	4,247927513	4,523561956	4,523561956	5,459431619	6,321928095	6,569855608
GPSM3	7,622051819	8,071462363	8,511752654	8,13442632	8,558420713	8,129283017
GPT	0	0	0	0	0	0
GPT2	3	2,321928095	1,584962501	2,807354922	4,247927513	4,64385619
GPX1	8,577428828	8,475733431	8,459431619	5,614709844	5,087462841	4,321928095
GPX2	0	0	0	0	0	0
GPX3	0	0	2,807354922	0	0	0
GPX4	7,569855608	7,554588852	7,6794801	6,189824559	6,459431619	6,321928095
GPX5	0	0	0	0	0	0
GPX6	0	0	0	0	0	0
GPX7	3,459431619	4,392317423	4,64385619	4,700439718	4	3,169925001
GPX8	1	0	0	0	0	0
GRAMD1A	6,475733431	6,266786541	6,832890014	7,169925001	7,285402219	6,882643049
GRAMD1B	3,906890596	3,584962501	4,087462841	3,321928095	4,247927513	3,169925001
GRAMD1C	3,459431619	3	2,584962501	1	3	5,169925001
GRAMD4	6,741466986	6,459431619	6,321928095	4,857980995	3,700439718	3,169925001
GRAP	4,857980995	4,754887502	4,64385619	6,189824559	5,285402219	5,700439718
GRAP2	6,942514505	7,199672345	7,312882955	7,554588852	7,475733431	6,882643049
GRAPL	0	0	0	0	0	0
GRASP	3,321928095	3	4,169925001	3,807354922	1,584962501	0
GRB10	3,584962501	4,087462841	1,584962501	1	0	2

GRB14	0	1	1	0	1,584962501	3,169925001
GRB2	10,26561505	10,35314683	10,4767462	9,52160044	9,625708843	9,56414949
GRB7	0	0	0	0	1,584962501	0
GREB1	1	1,584962501	0	2,321928095	0	0
GREB1L	0	0	0	1	1,584962501	2
GREM1	3	3	2,584962501	4,321928095	3,700439718	4,64385619
GREM2	4,321928095	4,087462841	3,807354922	6,409390936	5,781359714	6,882643049
GRHL1	0	2,584962501	1	2,321928095	2,321928095	5,169925001
GRHL2	0	0	0	0	0	0
GRHL3	0	0	0	1	0	0
GRHPR	6,409390936	6,357552005	6,700439718	5,882643049	6,247927513	4,95419631
GRIA1	0	0	0	0	1,584962501	0
GRIA2	1	1	1	2,321928095	3	4,95419631
GRIA3	1	0	0	2,321928095	3	2
GRIA4	3	2,584962501	2,584962501	2,321928095	3,321928095	3,169925001
GRID1	0	0	0	0	0	0
GRID2	1,584962501	0	0	1	1,584962501	3,169925001
GRID2IP	0	0	0	0	0	0
GRIK1	0	1	2	3,807354922	4,247927513	6,06608919
GRIK1-AS1	0	0	0	0	1,584962501	2
GRIK2	0	0	0	0	0	0
GRIK3	0	0	0	0	0	0
GRIK4	0	0	0	0	0	2
GRIK5	0	0	0	0	0	0
GRIN1	0	0	0	0	0	0
GRIN2A	3	3,321928095	1	4,700439718	5,169925001	5,169925001
GRIN2B	3	3,169925001	1	5,357552005	4,459431619	6,06608919
GRIN2C	0	0	0	0	0	0
GRIN2D	0	1	0	0	0	0
GRIN3A	5,129283017	4	4,754887502	0	0	0
GRIN3B	0	0	0	0	0	0
GRINA	8,451211112	8,721099189	8,951284715	6,129283017	6,459431619	6,321928095
GRIP1	3,459431619	2,321928095	3	4,321928095	5,169925001	5,169925001
GRIP2	0	0	0	1	1,584962501	0
GRIPAP1	7,276124405	7,276124405	7,348728154	7,357552005	7,554588852	7,409390936
GRK1	0	0	0	0	0	0
GRK4	2,584962501	3,321928095	3,700439718	5,754887502	5,087462841	6,882643049
GRK5	6,584962501	6,942514505	6,807354922	7,577428828	7,584962501	7,87036472
GRK6	6,247927513	6,409390936	6,189824559	4,523561956	5,554588852	0
GRK7	0	0	0	2,321928095	2,321928095	5,169925001
GRM1	0	0	0	0	3,700439718	2
GRM2	0	0	0	2,321928095	0	0
GRM3	2,321928095	2,321928095	1,584962501	4,321928095	3,700439718	3,169925001
GRM4	0	0	0	2,807354922	3,700439718	2
GRM5	0	0	0	0	0	0
GRM6	0	0	0	0	1,584962501	0
GRM7	1,584962501	0	0	0	2,321928095	2
GRM8	0	1	1	0	0	2
GRN	10,05120894	10,22641219	10,32755264	6,06608919	6,375039431	4,95419631
GRP	0	0	0	0	0	0
GRPEL1	7,392317423	7,392317423	7,409390936	7,392317423	7,73470962	7,700439718
GRPEL2	4,857980995	4,857980995	5,169925001	5,754887502	6,189824559	6,700439718
GRPR	0	0	0	0	0	0
GRSF1	8,727920455	8,854868383	8,447083226	8,519636253	8,491853096	8,426264755
GRTP1	0	0	0	1	0	0
GRWD1	5,321928095	5,044394119	5,392317423	5,614709844	5,64385619	5,95419631
GRXCR1	0	0	0	0	0	0
GRXCR2	0	0	0	0	0	0

GSC	0	0	0	1	0	0
GSC2	0	0	0	0	0	0
GSDMA	0	0	0	0	0	0
GSDMB	4,857980995	4,754887502	4,857980995	5,882643049	5,392317423	6,247927513
GSDMC	0	0	0	2,321928095	1,584962501	3,169925001
GSDMD	5,554588852	5,321928095	5,754887502	5,247927513	5,554588852	3,807354922
GSG1	0	1	0	2,321928095	3,321928095	3,807354922
GSG1L	0	0	0	1	0	0
GSK3A	5	5,285402219	5,357552005	5,614709844	5,169925001	4,64385619
GSK3B	7,741466986	7,6794801	7,707359132	7,285402219	7,614709844	7,209453366
GSN	8,672425342	8,813781191	8,668884984	4,523561956	5,459431619	2
GSPT1	8,836050355	8,73470962	8,832890014	9,11113567	9,199672345	9,315149562
GSPT2	5,169925001	4,906890596	5,209453366	5,754887502	5,087462841	5,554588852
GSR	8,599912842	8,661778098	8,622051819	7,64385619	7,851749041	7,994353437
GSS	5,426264755	5,882643049	5,700439718	6,06608919	6,247927513	6,409390936
GSTA1	1	0	0	0	0	0
GSTA2	0	0	0	0	0	0
GSTA3	0	0	0	0	0	0
GSTA4	1	0	0	0	0	0
GSTA5	0	0	0	0	0	0
GSTA7P	0	0	0	0	0	0
GSTCD	4,584962501	4,459431619	3,807354922	4,700439718	4,64385619	4,64385619
GSTK1	7,832890014	7,54689446	7,636624621	7,475733431	7,554588852	7,209453366
GSTM1	0	0	0	0	0	0
GSTM2	0	0	0	0	0	0
GSTM2P1	0	0	0	0	0	0
GSTM3	3,700439718	3,321928095	2,807354922	2,807354922	4,64385619	2
GSTM4	3	3,700439718	2,807354922	2,807354922	3,321928095	0
GSTM5	0	0	0	0	0	0
GSTO1	8,204571144	8,28077077	8,299208018	6,741466986	7,044394119	6,247927513
GSTO2	1	0	0	4,087462841	4,459431619	5,357552005
GSTP1	8,894817763	9,357552005	9,409390936	7,672425342	7,820178962	7,098032083
GSTT2	0	0	0	0	0	0
GSTT2B	0	0	0	0	0	0
GSTZ1	4,95419631	5,64385619	5,584962501	5,882643049	5,285402219	5,95419631
GSX1	0	0	0	0	0	0
GSX2	0	0	0	0	0	0
GTDC1	6,266786541	6,087462841	6,169925001	6,409390936	6,087462841	6,247927513
GTF2A1	8,741466986	8,64385619	8,400879436	9,147204925	9,09011242	9,28077077
GTF2A1L	0	0	0	0	0	0
GTF2A2	7,139551352	7,21916852	7,076815597	6,459431619	7,22881869	6,62935662
GTF2B	6,658211483	6,62935662	6,754887502	7,055282436	7,159871337	7,375039431
GTF2E1	6,426264755	6,392317423	6,741466986	7,189824559	7,044394119	6,321928095
GTF2E2	6,539158811	6,930737338	6,857980995	6,658211483	6,50779464	6,62935662
GTF2F1	6,022367813	5,977279923	6,807354922	7,022367813	7,06608919	6,569855608
GTF2F2	7,46760555	7,285402219	6,857980995	6,906890596	6,918863237	7,129283017
GTF2H1	7,189824559	6,754887502	6,409390936	7,839203788	7,400879436	7,87036472
GTF2H2	3	4,169925001	3	0	0	0
GTF2H2B	0	2,321928095	1,584962501	2,807354922	0	2
GTF2H2C	3,321928095	1	2,584962501	2,321928095	2,321928095	0
GTF2H3	7,022367813	7,011227255	7,366322214	7,375039431	7,491853096	7,276124405
GTF2H4	0	0	0	0	0	0
GTF2H5	7,54689446	7,417852515	7,539158811	7,169925001	7,209453366	7,098032083
GTF2I	5,169925001	4,906890596	5,426264755	5,614709844	3,321928095	6,06608919
GTF2IP1	0	0	0	0	0	0
GTF2IRD1	3,906890596	3,906890596	3,321928095	3,807354922	4,807354922	5,169925001
GTF2IRD2	3,584962501	2,807354922	3,584962501	4,087462841	1,584962501	4,321928095
GTF2IRD2B	0	1	1	0	0	0

GTF2IRD2P1	0	0	0	1	0	0
GTF3A	7,768184325	7,845490051	7,569855608	8,758223215	8,672425342	8,426264755
GTF3C1	6,426264755	6,686500527	6,266786541	6,700439718	6,700439718	6,700439718
GTF3C2	6,189824559	6	6,554588852	6,266786541	6,700439718	5,95419631
GTF3C3	7,108524457	7,06608919	6,906890596	7,577428828	7,108524457	7,011227255
GTF3C4	7,330916878	7,199672345	7,475733431	8,184875343	8,129283017	7,977279923
GTF3C5	5,426264755	5,285402219	4,95419631	5,614709844	5,781359714	5,832890014
GTF3C6	7,266786541	7,266786541	7,189824559	5,700439718	6,044394119	4,321928095
GTPBP1	5,930737338	5,584962501	5,882643049	5,930737338	5,087462841	2
GTPBP10	5,906890596	5,523561956	5,857980995	6,95419631	6,857980995	7,011227255
GTPBP2	6,06608919	6,475733431	6,781359714	5,700439718	5,977279923	5,169925001
GTPBP3	5,129283017	5,459431619	5,781359714	5,247927513	4,95419631	3,807354922
GTPBP4	8,30833903	8,189824559	8,071462363	8,95419631	8,816983623	9,339850003
GTPBP6	4,95419631	4,523561956	5,357552005	4,523561956	5,392317423	2
GTPBP8	6,50779464	6,599912842	6,942514505	6,22881869	6,658211483	6,62935662
GTSE1	1,584962501	1	1	0	3,700439718	3,169925001
GTSF1	1	2,321928095	0	0	2,321928095	0
GTSF1L	0	0	0	0	0	0
GUCA1A	0	0	0	0	0	0
GUCA1B	0	0	0	0	1,584962501	0
GUCA1C	0	0	0	0	0	0
GUCA2A	0	0	0	0	0	0
GUCA2B	0	0	0	0	0	0
GUCY1A2	4,700439718	4,64385619	5,044394119	6,584962501	6,409390936	7,741466986
GUCY1B2	0	0	0	0	0	0
GUCY2C	1	0	0	3,321928095	2,321928095	3,807354922
GUCY2D	0	0	0	0	0	0
GUCY2F	0	1,584962501	0	0	0	0
GUCY2GP	0	0	0	0	0	0
GUF1	5,64385619	5,584962501	5,554588852	5,754887502	6,409390936	7,129283017
GUK1	7,199672345	7,459431619	7,409390936	7,499845887	7,693486957	7,539158811
GULP1	4,392317423	4,392317423	4,169925001	6,50779464	6,942514505	7,700439718
GUSB	6,14974712	6,409390936	6,50779464	6,06608919	6,129283017	5,95419631
GUSBP1	3,906890596	3,807354922	4	5,129283017	5,169925001	5,357552005
GUSBP10	0	0	0	0	0	0
GUSBP11	0	1,584962501	1	2,807354922	2,321928095	0
GUSBP2	0	0	1	0	0	2
GUSBP3	0	0	0	0	0	0
GUSBP4	0	0	0	0	0	0
GUSBP5	0	1,584962501	0	0	0	0
GUSBP9	0	0	0	0	0	0
GVINP1	7,483815777	7,169925001	7,459431619	7,700439718	7,599912842	7,994353437
GXYLT1	7,569855608	7,607330314	7,539158811	7,022367813	7,285402219	7,098032083
GXYLT2	1,584962501	0	2	1	0	3,807354922
GYG1	6,491853096	6,285402219	6,129283017	5,614709844	5,64385619	4,64385619
GYG2	0	0	0	0	0	0
GYG2P1	0	0	0	0	0	0
GYPA	2,321928095	0	2	2,807354922	4	4,321928095
GYPB	0	1	0	0	0	0
GYPC	7,238404739	7,577428828	7,62935662	8,654636029	8,523561956	8,592457037
GYPE	0	0	0	0	1,584962501	0
GYS1	5,781359714	5,832890014	6,375039431	5,832890014	5,459431619	5,357552005
GYS2	0	0	0	0	0	0
GZF1	4,584962501	4,169925001	4,523561956	2,807354922	3,700439718	3,807354922
GZMA	8,845490051	8,707359132	8,724513853	8,804131021	9,131856961	8,379378367
GZMB	6,965784285	7	7,17990909	7,339850003	8,21916852	7,247927513
GZMH	7,022367813	7,392317423	7,539158811	7,754887502	7,994353437	7,592457037
GZMK	7,900866808	7,820178962	7,864186145	8,636624621	8,693486957	8,622051819

GZMM	2,807354922	2,321928095	3,321928095	0	0	0
H19	0	0	0	0	0	0
H1F0	6,108524457	5,930737338	5,857980995	1	2,321928095	4,64385619
H1FNT	0	0	0	0	0	0
H1FOO	0	0	0	0	0	0
H1FX	8,405141463	8,422064766	8,707359132	7,14974712	7,108524457	6,820178962
H1FX-AS1	0	0	0	0	0	0
H2AFB1	0	0	0	0	0	0
H2AFB2	0	0	0	0	0	0
H2AFB3	0	0	0	0	0	0
H2AFJ	5,321928095	5	5,614709844	6	5,169925001	6,321928095
H2AFV	8,921840937	8,948367232	8,927777962	8,599912842	8,54689446	8,129283017
H2AFX	5,614709844	4,857980995	5,781359714	5,614709844	5,554588852	4,321928095
H2AFY	10,34096276	10,31288296	10,23242093	8,851749041	8,714245518	8,885696373
H2AFY2	4,169925001	4,087462841	3,906890596	4,523561956	0	0
H2AFZ	9,461479447	9,390168956	9,17990909	9,319672121	9,45532722	9,21916852
H2BFM	0	0	0	0	0	0
H2BFWT	0	0	0	0	0	0
H3F3A	6,087462841	5,807354922	6,044394119	6,321928095	5,930737338	6,569855608
H3F3AP4	0	0	0	0	0	0
H3F3B	11,91101741	11,78545247	11,7232343	10,54012804	10,72195361	10,56605404
H3F3C	2,321928095	1,584962501	2	1	2,321928095	0
H6PD	5,781359714	5,523561956	5,857980995	4,700439718	4,807354922	3,807354922
HAAO	0	0	0	0	0	0
HABP2	0	0	0	0	0	0
HABP4	6,426264755	6,658211483	6,339850003	7,577428828	7,781359714	7,539158811
HACE1	5,614709844	5,554588852	5,807354922	6,266786541	5,781359714	6,321928095
HACL1	5	5,087462841	4	5,523561956	5,285402219	5,169925001
HADH	5,781359714	6,044394119	5,459431619	5,700439718	5,781359714	4,95419631
HADHA	8,243173983	8,290018847	8,113742166	8,199672345	8,118941073	8,174925683
HADHB	7,982993575	8,164906927	7,912889336	7,727920455	7,851749041	7,491853096
HAGH	7,189824559	7,238404739	7,199672345	7,055282436	6,857980995	6,491853096
HAGHL	1	2,584962501	3,169925001	1	0	0
HAL	2,584962501	2,807354922	2	3,807354922	2,321928095	3,169925001
HAMP	1	0	0	2,807354922	1,584962501	4,64385619
HAND1	0	0	0	0	0	0
HAND2	0	0	0	3,321928095	0	0
HAO1	0	0	0	0	0	0
HAO2	0	0	0	0	0	0
HAP1	0	0	0	0	0	0
HAPLN1	3,807354922	3,584962501	3,700439718	5	5,857980995	7,129283017
HAPLN2	0	0	0	0	0	0
HAPLN3	5,700439718	6,266786541	6,50779464	6,741466986	6,768184325	7,409390936
HAPLN4	0	0	0	0	0	0
HAR1A	1,584962501	2,321928095	3,321928095	1	3	2
HAR1B	0	0	0	0	1,584962501	0
HARBI1	3	3,169925001	3	2,321928095	3,321928095	2
HARS	5,491853096	5,554588852	5,584962501	5,700439718	5,285402219	4,321928095
HARS2	6,321928095	5,727920455	6,06608919	6,658211483	6,832890014	5,832890014
HAS1	0	0	0	0	0	0
HAS2	1	0	0	0	2,321928095	3,169925001
HAS2-AS1	1,584962501	0	0	0	0	2
HAS3	0	0	1,584962501	4,857980995	4,247927513	3,169925001
HAT1	7	6,658211483	6,584962501	6,459431619	6,700439718	6,965784285
HAUS1	5,392317423	5,523561956	5,584962501	5,459431619	5,64385619	5,169925001
HAUS2	6,189824559	6,882643049	6,491853096	5,523561956	6,409390936	6,569855608
HAUS3	7,055282436	6,894817763	6,781359714	7,169925001	6,965784285	7,169925001
HAUS4	5,977279923	6,169925001	5,977279923	5,129283017	6,189824559	5,700439718

HAUS5	4,392317423	4,087462841	4,459431619	3,807354922	1,584962501	4,64385619
HAUS6	6,658211483	6,832890014	6,807354922	7,693486957	7,400879436	8,189824559
HAUS7	5,129283017	4,459431619	5,357552005	3,807354922	4,247927513	5,357552005
HAUS8	5,044394119	4,169925001	4,857980995	4,700439718	3,321928095	2
HAVCR1	0	0	0	0	0	0
HAVCR2	7,330916878	7,055282436	7,199672345	3,321928095	5,285402219	0
HAX1	7,17990909	7,442943496	7,247927513	7,714245518	7,74819285	7,622051819
HBA1	7,276124405	5,426264755	6,50779464	7,339850003	7	8,903881846
HBA2	8,144658243	7,033423002	8,535275377	8,479780264	8,581200582	9,661778098
HBB	8,082149041	6,832890014	7,475733431	7,781359714	8,092757141	9,461479447
HBBP1	0	0	0	0	0	0
HBD	0	0	1	0	0	0
HBE1	0	0	0	0	0	0
HBEGF	6,321928095	6,781359714	6,459431619	6	6,375039431	6,491853096
HBG1	0	0	0	0	0	0
HBG2	2,584962501	0	2,584962501	0	0	3,807354922
HBM	0	1	2,584962501	2,321928095	0	3,169925001
HBP1	8,011227255	8	8,044394119	8,434628228	8,535275377	8,758223215
HBQ1	0	0	0	0	0	0
HBS1L	6,658211483	6,845490051	6,942514505	7,392317423	7,62935662	7,761551232
HBZ	0	0	0	0	0	0
HCAR1	0	0	0	0	0	0
HCAR2	4,857980995	4,321928095	4	1	2,321928095	0
HCAR3	5	5,357552005	4,857980995	3,321928095	3,700439718	2
HCCS	7,06608919	6,965784285	7,118941073	7,169925001	7,139551352	7,247927513
HCFC1	8,714245518	8,820178962	8,751544059	8,87958325	8,599912842	8,836050355
HCFC1R1	4,95419631	5,285402219	4,906890596	4,087462841	3	0
HCFC2	7,312882955	6,781359714	7,14974712	6,62935662	6,409390936	6,820178962
HCG11	5,491853096	5,832890014	5,584962501	5,129283017	5,930737338	5,554588852
HCG18	7,159871337	7,108524457	7,523561956	8,174925683	8,071462363	8,06608919
HCG22	0	0	0	0	1,584962501	0
HCG23	2,321928095	2,584962501	3,169925001	5,247927513	4,95419631	5,832890014
HCG25	0	0	0	0	0	2
HCG27	0	2,321928095	1,584962501	1	1,584962501	3,807354922
HCG4	0	0	0	0	0	0
HCG4B	0	0	0	0	0	0
HCG9	0	0	0	1	0	3,807354922
HCK	8,076815597	8,016808288	8,14974712	3,321928095	5,169925001	2
HCLS1	9,312882955	9,491853096	9,390168956	9,700439718	9,62935662	9,499845887
HCN1	0	1	0	0	1,584962501	2
HCN2	0	1	0	0	0	0
HCN3	1,584962501	1	0	0	0	0
HCN4	0	0	0	0	0	0
HCP5	6,965784285	6,942514505	7,118941073	7,129283017	7,434628228	6,882643049
HCRT	0	0	0	0	0	0
HCRT1	0	0	0	0	0	0
HCRT2	0	0	0	0	0	0
HCST	7,285402219	7,607330314	7,62935662	7,129283017	7,044394119	7,011227255
HDAC1	7,592457037	7,741466986	7,636624621	8,252665432	8,184875343	7,918863237
HDAC10	3,459431619	3,700439718	4	2,321928095	4	3,807354922
HDAC11	2,321928095	3	2,807354922	0	0	0
HDAC2	8,139551352	8,144658243	8,276124405	8,071462363	8,434628228	8,129283017
HDAC3	7,409390936	7,554588852	7,14974712	6,977279923	7,022367813	7,276124405
HDAC4	6,50779464	6,523561956	6,918863237	7,22881869	6,741466986	6,569855608
HDAC5	4,754887502	4,523561956	5,044394119	2,321928095	3	2
HDAC6	6,339850003	6,339850003	6,64385619	6,266786541	6,247927513	5,554588852
HDAC7	8,033423002	8,30833903	8,321928095	8,409390936	8,426264755	8,392317423
HDAC8	5,930737338	5,95419631	6,285402219	5,614709844	5,857980995	6,321928095

HDAC9	5,247927513	5,459431619	5,357552005	6,845490051	7,044394119	6,882643049
HDC	5,523561956	5,247927513	5,426264755	5,247927513	5,64385619	4,64385619
HDDC2	6,129283017	6,189824559	5,426264755	6,882643049	6,539158811	6,62935662
HDDC3	5,169925001	5,584962501	5,392317423	6,06608919	5,727920455	5,832890014
HDGF	9,016808288	9,052568051	9,21916852	8,703903573	8,942514505	8,92777962
HDGFL1	0	0	0	0	0	0
HDHD2	6,189824559	6,108524457	5,930737338	6,409390936	6,129283017	6,06608919
HDHD3	2,807354922	2,584962501	3,700439718	2,321928095	3	0
HDLBP	8,243173983	8,118941073	8,124121312	8,294620749	8,139551352	8,204571144
HDX	3	3,584962501	3,906890596	3,321928095	2,321928095	2
HEATR1	6,845490051	6,781359714	6,599912842	7,247927513	6,832890014	7,409390936
HEATR3	6,807354922	6,62935662	6,64385619	5	4,95419631	4,64385619
HEATR4	0	0	1	2,807354922	4,459431619	5,357552005
HEATR5A	6,22881869	6,459431619	6,321928095	5,357552005	4,95419631	6,06608919
HEATR5B	6,599912842	6,129283017	6,321928095	7,375039431	7,285402219	7,247927513
HEATR6	5,95419631	6,06608919	6,409390936	3,807354922	4,459431619	5,357552005
HEBP1	7,651051691	7,607330314	7,768184325	5,523561956	4,95419631	4,95419631
HEBP2	7,636624621	7,531381461	7,21916852	6,409390936	7	6,491853096
HECA	9,457380879	9,324180547	9,424166289	9,693486957	9,581200582	9,586839788
HECTD1	8,797661526	8,661778098	9	8,897845456	8,77807713	8,686500527
HECTD2	3,700439718	2,584962501	3,906890596	2,807354922	3,700439718	3,169925001
HECTD3	3,906890596	4,95419631	5,491853096	2,807354922	3,321928095	2
HECW1	0	2,321928095	2	2,807354922	3,700439718	2
HECW2	2,584962501	1,584962501	1,584962501	4,523561956	4	5,95419631
HEG1	7,055282436	6,807354922	7,118941073	7,599912842	7,64385619	7,700439718
HELB	7,108524457	7,285402219	7,693486957	7,426264755	7,247927513	7,721099189
HELLS	5,906890596	6,169925001	6,044394119	6,06608919	6,189824559	6,321928095
HELQ	5,64385619	6,06608919	5,857980995	6,375039431	6,539158811	6,169925001
HELT	0	0	0	0	0	0
HELZ	8,857980995	8,784634846	8,873444113	8,82336724	8,62935662	8,939579214
HEMGN	4,700439718	4,392317423	4,64385619	6,189824559	5,087462841	7,129283017
HEMK1	5,672425342	5,930737338	6,22881869	7,055282436	6,857980995	7,409390936
HENMT1	5,64385619	5,614709844	5,754887502	4,087462841	5,285402219	4,321928095
HEPACAM	0	0	0	0	0	0
HEPACAM2	0	0	0	0	0	3,807354922
HEPH	0	0	0	0	3	2
HEPHL1	1	0	1	2,807354922	0	4,321928095
HEPN1	0	0	0	0	0	0
HERC1	8,523561956	8,335390355	8,614709844	8,668884984	8,724513853	8,948367232
HERC2	7,238404739	6,768184325	7,46760555	7,714245518	7,209453366	7,592457037
HERC2P2	5,285402219	4,584962501	4,64385619	6,06608919	5,169925001	5,357552005
HERC2P3	2,584962501	1	1	2,807354922	3,700439718	4,321928095
HERC2P4	0	0	0	0	0	0
HERC2P7	0	0	0	0	0	0
HERC2P9	3,906890596	3,169925001	3,584962501	2,807354922	3	2
HERC3	7,199672345	7,159871337	7,348728154	6,741466986	6,965784285	6,820178962
HERC4	7,658211483	7,74819285	7,882643049	7,906890596	7,554588852	8,049848549
HERC5	7,348728154	6,918863237	7,06608919	6,930737338	6,807354922	6,882643049
HERC6	4,247927513	4	4	5,832890014	4,64385619	4,95419631
HERPUD1	9,388017285	9,152284842	9,266786541	8,95419631	8,948367232	8,965784285
HERPUD2	8,499845887	8,672425342	8,727920455	8,87958325	9,016808288	8,991521846
HES1	3,321928095	2,584962501	1,584962501	4,087462841	3,321928095	5,357552005
HES2	0	0	0	2,807354922	1,584962501	2
HES3	0	0	0	0	0	0
HES4	0	0	0	0	0	0
HES5	0	0	0	0	0	2
HES6	1,584962501	2,807354922	2,584962501	0	1,584962501	0
HES7	0	0	0	0	0	0

HESX1	1,584962501	2,321928095	0	1	0	2
HEXA	7,17990909	7,348728154	7,491853096	7,266786541	7,266786541	7,562242424
HEXB	9,036173613	9,187352073	8,903881846	7,22881869	7,348728154	6,930737338
HEXDC	5,247927513	5,087462841	5,614709844	4,700439718	4,247927513	0
HEXIM1	8,417852515	8,62935662	8,276124405	7,098032083	7,569855608	7,098032083
HEXIM2	2,321928095	2,321928095	0	1	1,584962501	0
HEY1	0	0	0	0	0	0
HEY2	0	0	1	0	0	0
HEYL	0	0	0	0	0	0
HFE	4,95419631	4,64385619	3	0	1,584962501	0
HFM1	1	1	0	2,807354922	2,321928095	3,807354922
HGD	1	1,584962501	1,584962501	2,807354922	2,321928095	3,169925001
HGF	3,906890596	4,459431619	3,700439718	1	3	4,321928095
HGFAC	0	0	0	0	0	0
HGS	5,672425342	5,807354922	5,727920455	5,523561956	5,857980995	6,06608919
HGSNAT	7,442943496	7,357552005	6,942514505	7	7,06608919	6,965784285
HHAT	5,247927513	4,700439718	5,169925001	6,266786541	6,700439718	7,276124405
HHATL	0	0	0	0	0	0
HHEX	6,845490051	6,882643049	6,965784285	5,930737338	6,247927513	5,554588852
HHIP	2,807354922	3,169925001	2	6,129283017	4,64385619	5,832890014
HHIPL1	0	0	0	2,321928095	0	2
HHIPL2	0	0	0	0	0	0
HHLA1	0	0	0	0	0	0
HHLA2	0	0	0	0	0	0
HHLA3	1,584962501	1,584962501	2	1	2,321928095	0
HIBADH	4,64385619	5,044394119	5,209453366	2,807354922	4,247927513	3,169925001
HIBCH	6,539158811	6,209453366	6,62935662	6,658211483	6,375039431	6,169925001
HIC1	4,64385619	4,584962501	4,459431619	5,247927513	5,64385619	5,700439718
HIC2	6,339850003	6,554588852	6,700439718	6,189824559	6,285402219	6,700439718
HIF1A	9,211888295	9,136991112	9,192292814	9,703903573	9,8008999	9,902375114
HIF1A-AS2	2,807354922	3	1,584962501	2,807354922	3,700439718	5,700439718
HIF1AN	7,169925001	7,303780748	7,285402219	7,285402219	7,64385619	7,209453366
HIF3A	1	2,321928095	0	2,321928095	4,247927513	3,169925001
HIGD1A	7,06608919	6,741466986	6,459431619	5,930737338	5,392317423	5,169925001
HIGD1B	0	0	0	0	0	0
HIGD1C	0	0	0	0	0	0
HIGD2A	6,658211483	6,807354922	6,906890596	6,741466986	7,06608919	6,62935662
HIGD2B	0	0	0	0	0	0
HILPDA	4,95419631	5,247927513	4,857980995	1	4	2
HILS1	0	0	0	0	0	0
HINFP	4,754887502	4,584962501	4,64385619	5,247927513	5,392317423	4,64385619
HINT1	10,46250227	10,52160044	10,18115226	11,15165083	11,25620869	11,18177344
HINT2	0	0	1	1	0	0
HINT3	6,599912842	6,442943496	6,321928095	6	6,129283017	5,554588852
HIP1	6,189824559	6,554588852	6,409390936	4,321928095	4,807354922	3,807354922
HIP1R	3,459431619	3,700439718	4	3,807354922	4,64385619	5,700439718
HIPK1	8,727920455	8,754887502	8,861086906	9,357552005	9,025139562	9,375039431
HIPK2	9,243173983	9,262094845	9,296916207	9,379378367	9,45532722	9,511752654
HIPK3	9,147204925	9,108524457	9,044394119	9,189824559	9,121533517	9,019590728
HIPK4	0	0	0	0	0	0
HIRA	3,321928095	3,584962501	3,807354922	4,087462841	4	4,64385619
HIRIP3	3,584962501	2,321928095	3,584962501	4,321928095	4	3,807354922
HIST1H1A	0	0	0	0	0	0
HIST1H1B	0	0	0	0	0	0
HIST1H1C	6,882643049	6,62935662	6,108524457	5,129283017	4,95419631	4,321928095
HIST1H1D	5,357552005	4,906890596	5,247927513	0	4	4,321928095
HIST1H1E	4,584962501	4,087462841	3,906890596	2,321928095	3	0
HIST1H1T	0	0	0	0	0	0

HIST1H2AA	0	0	0	0	0	0
HIST1H2AB	0	0	0	0	1,584962501	0
HIST1H2AC	5,95419631	5,95419631	5,554588852	6,409390936	6,768184325	6,409390936
HIST1H2AD	0	0	0	0	0	0
HIST1H2AE	1,584962501	2,807354922	2,584962501	0	1,584962501	2
HIST1H2AG	2,321928095	2,321928095	1,584962501	1	3	3,807354922
HIST1H2AH	0	0	0	0	0	0
HIST1H2AI	0	0	0	0	0	0
HIST1H2AJ	0	0	0	0	0	0
HIST1H2AK	0	0	0	0	0	0
HIST1H2AL	0	0	0	0	0	0
HIST1H2AM	0	1	0	0	0	0
HIST1H2APS1	0	0	0	0	0	0
HIST1H2BA	0	0	0	0	0	0
HIST1H2BB	0	0	0	0	0	0
HIST1H2BC	1,584962501	3	2,807354922	2,807354922	0	0
HIST1H2BD	4,523561956	3,807354922	4,459431619	5,459431619	3	5,169925001
HIST1H2BE	0	0	0	2,807354922	1,584962501	0
HIST1H2BF	0	0	0	1	1,584962501	3,169925001
HIST1H2BG	1,584962501	2,321928095	1	5	2,321928095	4,321928095
HIST1H2BH	1,584962501	1,584962501	1	0	3	3,807354922
HIST1H2BI	0	0	0	0	0	0
HIST1H2BJ	2,321928095	1,584962501	3	2,807354922	3	2
HIST1H2BK	1	0	0	0	0	0
HIST1H2BL	0	0	0	0	0	0
HIST1H2BM	0	0	0	0	0	0
HIST1H2BN	2,584962501	1,584962501	0	2,321928095	0	2
HIST1H2BO	0	0	0	0	0	0
HIST1H3A	0	0	0	0	2,321928095	0
HIST1H3B	0	0	0	0	0	0
HIST1H3C	0	0	0	0	0	0
HIST1H3D	0	0	0	0	0	0
HIST1H3E	1	0	2,584962501	0	0	0
HIST1H3F	0	0	0	0	0	0
HIST1H3G	0	0	0	0	0	0
HIST1H3H	4,584962501	4,459431619	4,169925001	4,321928095	5,857980995	5,554588852
HIST1H3I	0	0	0	0	0	0
HIST1H3J	0	0	0	0	0	0
HIST1H4A	0	0	0	0	0	0
HIST1H4B	0	0	0	2,321928095	3,321928095	0
HIST1H4C	9,030667136	8,6794801	8,703903573	8,751544059	9,233619677	8,700439718
HIST1H4D	0	1	0	0	0	0
HIST1H4E	1	0	0	1	1,584962501	0
HIST1H4F	0	0	0	0	2,321928095	0
HIST1H4G	0	0	0	0	0	0
HIST1H4H	3,906890596	4,169925001	4,247927513	5,459431619	5,64385619	6,321928095
HIST1H4I	0	0	0	2,321928095	0	2
HIST1H4J	0	1	1,584962501	1	3	0
HIST1H4K	0	0	0	0	0	0
HIST1H4L	0	0	0	0	0	0
HIST2H2AA3	0	0	0	0	0	0
HIST2H2AA4	0	0	0	0	0	0
HIST2H2AB	1,584962501	0	1	1	0	0
HIST2H2AC	2,807354922	2,807354922	2,584962501	3,321928095	3	0
HIST2H2BA	0	0	0	0	0	0
HIST2H2BC	5,554588852	5,523561956	5,247927513	7,189824559	6,584962501	7,539158811
HIST2H2BE	5,209453366	5,523561956	5,614709844	4,523561956	4,95419631	4,95419631
HIST2H2BF	0	0	0	0	0	0

HIST2H3A	0	0	0	0	0	0
HIST2H3C	0	0	0	0	0	0
HIST2H3D	0	0	0	0	0	0
HIST2H4A	0	0	0	0	0	0
HIST2H4B	0	0	0	0	0	0
HIST3H2A	4,459431619	4,087462841	4,087462841	3,321928095	4,459431619	3,807354922
HIST3H2BB	0	0	0	0	0	0
HIST3H3	0	0	0	0	0	0
HIST4H4	1	0	0	2,321928095	1,584962501	2
HIVEP1	7,033423002	7,451211112	7,189824559	7,409390936	7,044394119	7,562242424
HIVEP2	8,499845887	8,550746785	8,503825738	9,485829309	9,424166289	9,28077077
HIVEP3	6,247927513	6,169925001	6,426264755	6	5,554588852	6,700439718
HJURP	0	1	0	0	0	0
HK1	7,159871337	7,098032083	7,087462841	6,554588852	6,584962501	6,700439718
HK2	8,710806434	8,741466986	8,388017285	5,129283017	7,285402219	0
HK3	3,459431619	4,64385619	4	0	1,584962501	0
HKDC1	3,906890596	3,807354922	3,584962501	2,321928095	4,459431619	0
HKR1	4,857980995	3,906890596	4,392317423	6,129283017	5,977279923	5,700439718
HLA-A	11,87920032	11,87920032	11,68123841	11,10459875	11,29289676	10,83051521
HLA-B	12,46275787	12,68584381	12,68584381	11,99753235	12,14815877	11,99753235
HLA-C	9,567956075	9,396604781	9,022367813	9,581200582	9,932214752	9,417852515
HLA-DMA	7,930737338	7,383704292	7,483815777	5,357552005	5,392317423	3,807354922
HLA-DMB	9,933690655	9,927777962	9,95419631	7,357552005	7,417852515	6,882643049
HLA-DOA	6,044394119	6,392317423	6,285402219	5,614709844	5,727920455	5,700439718
HLA-DOB	3,700439718	3,807354922	4,169925001	4,523561956	4,459431619	2
HLA-DPA1	11,0768156	11,26912668	11,08148344	8,897845456	8,86727874	8,622051819
HLA-DPB1	10,05528244	10,34096276	9,992938336	8,184875343	8,434628228	8,129283017
HLA-DPB2	0	1	0	0	0	0
HLA-DQA1	10,86263736	11,07079181	10,80251637	7,918863237	8,45532722	7,409390936
HLA-DQA2	0	1,584962501	2	1	1,584962501	2
HLA-DQB1	10,98441846	11,00632608	10,84235034	8,124121312	8,6794801	8,033423002
HLA-DQB2	0	0	1	2,321928095	3	3,169925001
HLA-DRA	12,29232163	12,37721053	12,19075065	9,917372079	10,13057056	9,77148947
HLA-DRB1	11,3885555	11,66400276	11,57412044	8,233619677	8,6794801	7,918863237
HLA-DRB5	4,392317423	4,087462841	4,087462841	2,321928095	1,584962501	0
HLA-DRB6	6,426264755	6,741466986	5,754887502	3,321928095	3,321928095	2
HLA-E	10,6891244	10,87958325	10,80896417	10,39553414	10,78135971	10,20579325
HLA-F	9,764871591	9,840777924	9,83447105	9,674192268	9,668884984	8,816983623
HLA-F-AS1	4,321928095	4,321928095	4,754887502	2,807354922	4,247927513	2
HLA-G	2,584962501	0	0	0	0	3,169925001
HLA-H	4,247927513	4,087462841	3,169925001	1	2,321928095	3,169925001
HLA-J	3	3,807354922	2	3,321928095	1,584962501	2
HLA-L	3,807354922	3,584962501	4	0	2,321928095	0
HLCS	3,807354922	4,169925001	3,321928095	4,087462841	4,95419631	4,64385619
HLF	3,321928095	4,169925001	4,169925001	6,266786541	6,321928095	6,06608919
HLTF	6,832890014	6,857980995	6,714245518	6,459431619	6,321928095	6,569855608
HLX	5,930737338	5,554588852	5,754887502	3,807354922	4,247927513	2
HM13	7,686500527	7,569855608	8,060695932	7,577428828	7,672425342	7,87036472
HMBX1	7,129283017	7,055282436	7,276124405	7,672425342	7,22881869	7,64385619
HMBS	2,807354922	3,584962501	3,700439718	1	3	3,807354922
HMCN1	4,169925001	4,523561956	4,459431619	5,614709844	4,807354922	6,06608919
HMG20A	6,781359714	6,807354922	6,832890014	7,321928095	7,434628228	7,276124405
HMG20B	5,392317423	5,554588852	5,807354922	5	3,700439718	2
HMGA1	7,321928095	7,459431619	7,636624621	6,882643049	6,768184325	7,011227255
HMGA1P7	0	0	0	0	0	0
HMGA2	2,807354922	1	1,584962501	3,807354922	4	5,95419631
HMGB1	10,033423	10,10328781	9,878050913	10,14338321	10,05799172	9,840777924
HMGB2	9,294620749	9,147204925	9,172427509	8,845490051	9,20701432	8,87036472

HMGB3	3	3,584962501	3,584962501	2,321928095	1,584962501	0
HMGB3P1	0	0	0	0	0	2
HMGB4	0	0	0	0	0	0
HMGCL	5,044394119	4,700439718	4,857980995	5,459431619	5,554588852	6,169925001
HMGCLL1	0	0	0	1	0	0
HMGCR	7,098032083	6,942514505	6,62935662	6,189824559	6,285402219	6,169925001
HMGCS1	7,73470962	7,577428828	7,22881869	6,820178962	6,50779464	6,569855608
HMGCS2	0	0	0	1	0	0
HMGN1	8,475733431	8,550746785	8,487840034	9,100662339	9,049848549	9,326429487
HMGN2	4,754887502	4,523561956	4,584962501	3,807354922	4,247927513	3,807354922
HMGN2P46	2,321928095	3,169925001	2,584962501	3,321928095	4	0
HMGN3	8,071462363	8,13442632	8,06608919	8,087462841	7,924812504	8,108524457
HMGN4	4,584962501	4,584962501	3,807354922	5	4,64385619	4,321928095
HMGN5	5,209453366	5	5,044394119	7,266786541	6,247927513	7,64385619
HMGXB3	5,209453366	5,64385619	5,392317423	4,857980995	6,189824559	6,06608919
HMGXB4	7,276124405	7,17990909	7,17990909	6,409390936	6,409390936	6,06608919
HMHb1	0	0	0	0	0	0
HMMR	2,807354922	1,584962501	2	4,523561956	4,807354922	5,700439718
HMOX1	7,686500527	8	8,164906927	7,303780748	7	7,787902559
HMOX2	5,672425342	5,977279923	5,930737338	5,754887502	6,189824559	4,95419631
HMSD	0	0	0	0	0	0
HMX1	0	0	0	0	0	0
HMX2	0	0	0	0	0	0
HMX3	0	0	0	0	0	0
HNF1A	0	0	0	1	0	0
HNF1A-AS1	1	1,584962501	2	3,321928095	3	5,169925001
HNF1B	0	0	1,584962501	1	2,321928095	0
HNF4A	0	0	0	0	0	0
HNF4G	1	2,584962501	1	0	1,584962501	0
HNMT	6,988684687	6,977279923	6,64385619	0	2,321928095	0
HNRNPA0	9,162391329	9,278449458	9,22881869	9,45532722	9,620219826	9,675957033
HNRNPA1	9,453270634	9,537218401	9,588714636	10,92407019	10,96794671	11,09539702
HNRNPA1L2	4,169925001	4,523561956	4,584962501	6	5,087462841	5,832890014
HNRNPA1P10	0	0	0	0	0	0
HNRNPA2B1	11,03479896	11,04371086	11,10459875	11,11958962	11,10459875	11,2227949
HNRNPA3	9,383704292	9,144658243	9,224001674	10,44604941	10,21310422	10,58683979
HNRNPA3P1	0	0	0	0	0	0
HNRNPAB	8,076815597	8,092757141	7,864186145	7,754887502	7,658211483	7,87036472
HNRNPC	8,731319031	8,73470962	8,693486957	8,948367232	9,113742166	9,049848549
HNRNPCL1	0	1	1	1	0	0
HNRNPD	9,927777962	10,00562455	9,812177306	10,22400167	10,11113567	10,16113188
HNRNPF	9,741466986	9,899356923	9,908392621	9,696967526	9,929258409	9,761551232
HNRNPH1	10,32755264	10,39124359	10,44604941	11,05596023	10,89254282	11,10459875
HNRNPH2	8,562242424	8,577428828	8,607330314	9,330916878	9,057991723	8,797661526
HNRNPH3	9,174925683	9,157346935	9,259743264	10,02236781	9,862637358	10,17866485
HNRNPK	10,82336724	10,73386272	10,72195361	11,02097994	11,01402047	10,9505559
HNRNPKP3	1	0	0	0	0	2
HNRNPL	8,829722735	8,603626345	8,717676423	9,477758266	9,283088353	9,461479447
HNRNPM	9,97441459	9,949826711	9,891783703	10,19844504	10,30833903	10,37503943
HNRNPR	9,729620744	9,601770788	9,702172685	10,05528244	9,927777962	10,14720492
HNRNPU	10,59991284	10,67154107	10,5849625	10,78953364	10,75321675	10,88493365
HNRNPUL1	8,361943774	8,375039431	8,487840034	8,897845456	8,933690655	8,885696373
HNRNPUL2	7,54689446	7,768184325	7,794415866	7,727920455	7,948367232	7,87036472
HNRNPUL2-BSCL2	0	0	0	0	0	0
HOGA1	0	0	0	0	0	0
HOMER1	4,754887502	4,700439718	5	6,50779464	6,807354922	6,930737338
HOMER2	4	4,169925001	3,169925001	5,882643049	4,247927513	5,554588852
HOMER3	2,584962501	4,523561956	4,459431619	1	0	0

HOMEZ	4,857980995	4,321928095	4,754887502	5,882643049	5,781359714	6,321928095
HOOK1	6,06608919	6,044394119	5,754887502	6,700439718	6,459431619	6,321928095
HOOK2	4,523561956	4,857980995	4,459431619	6,321928095	5,727920455	7,055282436
HOOK3	9,047123912	9,068778278	8,994353437	8,071462363	8,139551352	8,108524457
HOPX	7,330916878	7,199672345	7,055282436	7,876516947	7,781359714	6,930737338
HORMAD1	2,584962501	2,807354922	2,584962501	0	1,584962501	0
HORMAD2	0	0	0	1	2,321928095	3,169925001
HOTAIR	0	0	0	2,321928095	0	0
HOTAIRM1	5,95419631	5,672425342	5,781359714	4,523561956	4,247927513	4,64385619
HOTTIP	2,584962501	0	0	1	3,700439718	4,64385619
HOXA-AS3	0	0	0	2,807354922	1,584962501	0
HOXA1	2,584962501	1,584962501	1,584962501	0	0	0
HOXA10	1	3	2,807354922	0	0	0
HOXA11	0	0	0	0	0	0
HOXA13	1	1,584962501	2,807354922	4,321928095	4,807354922	5,700439718
HOXA2	0	0	0	0	0	0
HOXA3	0	0	0	0	0	0
HOXA4	0	0	0	0	0	0
HOXA5	0	0	0	0	0	2
HOXA6	0	0	0	0	0	0
HOXA7	0	0	0	0	0	0
HOXA9	3,321928095	2,321928095	2	0	3	0
HOXB-AS3	0	0	0	0	2,321928095	0
HOXB1	0	0	0	0	0	0
HOXB13	0	0	0	0	0	0
HOXB2	5,491853096	5,554588852	5,426264755	5,754887502	5,727920455	6,06608919
HOXB3	4,95419631	4,584962501	4,857980995	5,247927513	5,285402219	4,321928095
HOXB4	5	4,906890596	5,169925001	4,700439718	5,459431619	4,321928095
HOXB5	0	0	0	0	2,321928095	0
HOXB6	0	0	0	0	0	0
HOXB7	1	1	1	0	0	0
HOXB8	0	0	0	0	0	0
HOXB9	0	0	0	0	0	0
HOXC10	0	0	0	0	0	2
HOXC11	0	0	0	0	0	0
HOXC12	0	0	0	0	0	0
HOXC13	0	0	0	0	0	0
HOXC4	3,906890596	4	4,247927513	4,321928095	4,247927513	3,169925001
HOXC5	0	0	0	0	0	0
HOXC6	1	2,321928095	2	4,523561956	4,247927513	4,95419631
HOXC8	0	0	0	2,807354922	0	2
HOXC9	0	0	0	0	0	0
HOXD-AS2	0	0	0	0	0	0
HOXD1	0	1	0	0	0	0
HOXD10	0	0	0	0	0	0
HOXD11	0	0	0	0	0	0
HOXD12	0	0	0	0	0	0
HOXD13	0	0	0	0	0	0
HOXD3	0	0	0	0	0	0
HOXD4	0	0	0	0	0	0
HOXD8	0	0	1	0	2,321928095	0
HOXD9	0	0	0	0	0	0
HP	0	1	0	0	0	0
HP1BP3	9,712527	9,52160044	9,54689446	9,573647187	9,415741768	9,475733431
HPCA	0	0	0	0	0	0
HPCAL1	7,651051691	8,011227255	7,882643049	7,894817763	8,353146825	7,851749041
HPCAL4	3,906890596	4,392317423	3,700439718	0	4,459431619	0
HPD	0	0	0	0	0	0

HPDL	0	0	0	0	0	0
HPGD	5,129283017	4,459431619	4,95419631	4,523561956	3,700439718	4,321928095
HPGDS	0	0	0	0	0	0
HPN	0	0	0	3,807354922	1,584962501	0
HPR	0	0	0	0	0	0
HPRT1	6,754887502	6,375039431	6,475733431	6,584962501	6,768184325	6,169925001
HPS1	7,06608919	7,087462841	7,118941073	6,845490051	6,658211483	6,321928095
HPS3	5,832890014	6,189824559	5,95419631	5,832890014	5,727920455	3,807354922
HPS4	7,426264755	7,339850003	7,392317423	7,851749041	7,924812504	8,257387843
HPS5	7	7,022367813	6,62935662	7,14974712	7,348728154	7,348728154
HPS6	6,247927513	6,523561956	5,95419631	6,129283017	6,741466986	6,06608919
HPSE	4,169925001	4,523561956	3,169925001	1	3	3,807354922
HPSE2	1,584962501	0	1	0	0	2
HPX	0	0	0	2,807354922	0	0
HPYR1	0	0	0	0	0	0
HR	0	0	0	0	0	0
HRAS	3,584962501	3,700439718	4	1	3,700439718	2
HRASLS	0	0	0	0	0	0
HRASLS2	2,584962501	1	0	0	0	0
HRASLS5	1	1,584962501	3	0	0	0
HRC	0	0	0	0	0	0
HRCT1	0	0	0	0	0	0
HRG	0	0	0	0	0	0
HRH1	0	1	1,584962501	2,321928095	1,584962501	0
HRH2	4,523561956	5	4,169925001	2,807354922	4,459431619	2
HRH3	0	0	0	0	0	0
HRH4	3,807354922	2,807354922	2	0	0	2
HRK	3,700439718	3,584962501	2,807354922	4,087462841	4	4,321928095
HRNR	0	0	0	1	0	0
HS1BP3	4,459431619	4,523561956	4,754887502	1	3	2
HS2ST1	7,011227255	6,781359714	7,022367813	6,06608919	6,50779464	6,247927513
HS3ST1	4,64385619	5,247927513	4,754887502	4,321928095	4,95419631	4,95419631
HS3ST2	0	0	1,584962501	0	0	0
HS3ST3A1	0	1	0	0	0	0
HS3ST3B1	6,285402219	5,807354922	5,781359714	6,906890596	6,882643049	6,491853096
HS3ST4	0	0	0	0	0	0
HS3ST5	0	1	0	0	2,321928095	0
HS3ST6	0	0	0	0	0	0
HS6ST1	4,321928095	4,087462841	4,459431619	2,321928095	1,584962501	2
HS6ST2	0	0	0	0	0	0
HS6ST3	0	0	1,584962501	0	2,321928095	4,321928095
HSBP1	8,573647187	8,636624621	8,194756854	7,392317423	7,366322214	7,312882955
HSBP1L1	4,392317423	4,754887502	4,523561956	5,357552005	5,392317423	5,169925001
HSCB	3,807354922	3,807354922	3,169925001	3,321928095	5,087462841	4,321928095
HSD11B1	3	4	3,584962501	0	0	0
HSD11B1L	1	0	2,807354922	0	0	0
HSD11B2	0	0	0	0	0	0
HSD17B1	0	0	0	3,807354922	2,321928095	3,169925001
HSD17B10	5,672425342	5,523561956	5,906890596	5,614709844	5,781359714	5,357552005
HSD17B11	8,169925001	8,189824559	8,184875343	7,754887502	7,807354922	7,700439718
HSD17B12	6,599912842	6,303780748	6,321928095	5,357552005	6,129283017	5,357552005
HSD17B13	2,321928095	1,584962501	1,584962501	2,807354922	0	2
HSD17B14	1,584962501	1	2,584962501	0	0	0
HSD17B2	1	0	0	3,807354922	2,321928095	4,321928095
HSD17B3	0	0	0	0	0	0
HSD17B4	8,539158811	8,383704292	8,28077077	6,977279923	6,741466986	6,62935662
HSD17B6	0	0	1,584962501	4,087462841	0	0
HSD17B7	3,807354922	3,169925001	2,584962501	4,700439718	4,459431619	3,169925001

HSD17B7P2	1,584962501	2,321928095	1,584962501	0	1,584962501	3,169925001
HSD17B8	3	3,807354922	2,807354922	4,321928095	2,321928095	3,807354922
HSD3B1	0	0	0	0	0	0
HSD3B2	0	0	0	0	0	0
HSD3B7	3,906890596	4,087462841	4,169925001	2,807354922	0	0
HSD3BP4	0	0	0	0	0	0
HSDL1	5,392317423	5,523561956	6	4,857980995	4,807354922	5,554588852
HSDL2	6,303780748	6,569855608	6,285402219	5,357552005	5,459431619	5,169925001
HSF1	6,906890596	7,108524457	6,95419631	7,577428828	7,672425342	7,672425342
HSF2	6,845490051	6,754887502	6,832890014	7,894817763	7,523561956	7,721099189
HSF2BP	0	1	1	0	2,321928095	0
HSF4	2,321928095	1,584962501	0	2,807354922	0	0
HSF5	0	1,584962501	1	0	3	0
HSFX1	0	0	0	0	0	0
HSFX2	0	0	0	0	0	0
HSFY1	0	0	0	0	0	0
HSFY1P1	0	0	0	0	0	0
HSFY2	0	0	0	0	0	0
HSH2D	5,169925001	4,95419631	5	5	5,087462841	5,357552005
HSP90AA1	12,19075065	12,10590851	12,0657527	11,37666806	11,37666806	11,40301202
HSP90AA4P	3,321928095	3	2,807354922	2,321928095	1,584962501	4,95419631
HSP90AA6P	0	0	0	0	1,584962501	0
HSP90AB1	11,59058705	11,50481899	11,59058705	11,34151882	11,40301202	11,47015044
HSP90AB2P	1,584962501	3,169925001	2	2,321928095	3,700439718	0
HSP90AB3P	8,417852515	8,290018847	8,28077077	8,810571635	8,714245518	9,364134655
HSP90B1	10,88493365	10,71938882	10,5943246	9,805743872	9,68474862	9,703903573
HSP90B3P	3	0	2	1	4,64385619	3,807354922
HSPA12A	2,321928095	0	1	1	1,584962501	0
HSPA12B	0	0	0	0	0	0
HSPA13	7,658211483	7,87036472	7,864186145	7,727920455	7,672425342	7,87036472
HSPA14	6,339850003	6,339850003	6,285402219	6,62935662	6,781359714	6,442943496
HSPA1A	9,221587121	9,159871337	8,930737338	8,276124405	8,055282436	8,330916878
HSPA1B	7,076815597	6,209453366	5,977279923	7,554588852	7,06608919	7,491853096
HSPA1L	4,459431619	5,614709844	4,523561956	6,06608919	6,044394119	4,95419631
HSPA2	3	1	1	0	1,584962501	3,169925001
HSPA4	8,17990909	8	7,894817763	8,539158811	8,174925683	8,971543554
HSPA4L	2,584962501	0	2	2,321928095	3	4,321928095
HSPA5	10,41890673	10,40087944	10,33873638	8,994353437	9,131856961	8,797661526
HSPA6	4,95419631	4,087462841	4,247927513	1	3,321928095	0
HSPA7	1	1	0	0	0	0
HSPA8	8,54689446	7,888743249	7,851749041	7,266786541	7,321928095	7,375039431
HSPA9	8,988684687	8,891783703	8,851749041	9,038918989	8,924812504	9,25502857
HSPB1	6	5,781359714	5,857980995	3,321928095	3	3,169925001
HSPB11	7,033423002	7,011227255	6,988684687	7,129283017	6,942514505	6,882643049
HSPB2-C11orf52	0	0	0	0	0	0
HSPB3	0	0	0	0	0	0
HSPB6	0	0	0	0	0	0
HSPB7	0	0	0	0	0	0
HSPB8	0	0	0	0	0	0
HSPB9	0	0	0	0	0	0
HSPBAP1	5,64385619	5,321928095	5,044394119	5,357552005	4,247927513	4,95419631
HSPBP1	4,247927513	4,392317423	4,700439718	3,321928095	4,95419631	3,169925001
HSPD1	8,17990909	7,845490051	7,73470962	8,033423002	7,965784285	7,832890014
HSPE1	7,651051691	7,400879436	6,906890596	7,321928095	7,475733431	7,515699838
HSPE1-MOB4	0	0	0	0	0	0
HSPG2	1	0	0	0	0	0
HSPH1	9,48984796	9,118941073	8,945443836	9,224001674	8,918863237	9,306061689
HTATIP2	7,330916878	7,554588852	7,483815777	7,392317423	7,554588852	7,348728154

HTATSF1	8,044394119	7,900866808	7,607330314	7,554588852	7,614709844	7,409390936
HTN1	0	0	0	0	0	3,169925001
HTN3	0	0	0	0	0	0
HTR1A	0	0	0	0	0	0
HTR1B	0	0	0	0	0	0
HTR1D	0	0	0	0	0	0
HTR1E	0	0	0	0	0	0
HTR1F	2,321928095	2,321928095	1,584962501	0	0	3,807354922
HTR2A	2,321928095	0	0	1	0	0
HTR2B	0	0	0	0	0	0
HTR2C	0	0	0	0	0	0
HTR3A	0	0	0	0	0	0
HTR3B	0	0	0	0	0	0
HTR3C	0	0	0	0	0	0
HTR3D	0	0	0	0	0	0
HTR3E	0	0	0	0	0	0
HTR4	1	2,584962501	0	4,087462841	4,247927513	5,357552005
HTR5A	0	0	0	1	0	0
HTR6	0	0	0	0	0	0
HTR7	0	0	0	0	0	0
HTR7P1	4,392317423	4,169925001	4,169925001	4,523561956	4,64385619	4,64385619
HTRA1	0	0	0	0	0	0
HTRA2	4,523561956	4,754887502	4,64385619	5,832890014	5,64385619	4,64385619
HTRA3	0	0	0	0	1,584962501	0
HTRA4	3,321928095	3,169925001	3,321928095	4,523561956	4	0
HTT	6,189824559	6,285402219	6,108524457	6,22881869	6,321928095	7,055282436
HUNK	0	1,584962501	0	0	0	2
HUS1	5,491853096	5,95419631	5,169925001	5,247927513	4,807354922	5,832890014
HUS1B	1	1,584962501	1	3,321928095	1,584962501	0
HUWE1	7,820178962	7,87036472	8,060695932	8,257387843	7,942514505	8,330916878
HVCN1	7,554588852	7,686500527	7,693486957	6,768184325	6,375039431	6,06608919
HYAL1	0	0	0	0	0	0
HYAL2	3,700439718	4,64385619	4	2,321928095	0	0
HYAL3	2,584962501	2,321928095	1	0	1,584962501	0
HYAL4	0	0	0	0	0	0
HYDIN	0	0	0	0	0	0
HYI	2,584962501	1,584962501	2,584962501	0	3	2
HYLS1	4,169925001	3,906890596	4,700439718	2,807354922	4	0
HYOU1	8,005624549	8,049848549	8,189824559	7,339850003	7,417852515	6,930737338
IAH1	7,139551352	7,159871337	7,383704292	6,50779464	6,584962501	6,700439718
IAPP	0	0	0	0	0	0
IARS	6,700439718	6,523561956	6,189824559	7,577428828	6,807354922	7,129283017
IARS2	8,438791853	8,262094845	8,071462363	8,224001674	8,321928095	8,312882955
IBA57	3,906890596	3,906890596	3,169925001	2,807354922	3,321928095	4,321928095
IBSP	0	0	0	0	0	0
IBTK	8,980139578	8,897845456	8,807354922	8,781359714	8,754887502	8,238404739
ICA1	3,584962501	2,321928095	3,169925001	4,523561956	4	3,169925001
ICA1L	3,459431619	3,169925001	2,807354922	4,523561956	2,321928095	5,554588852
ICAM1	6,247927513	6,459431619	6,50779464	3,321928095	5,169925001	4,64385619
ICAM2	6,303780748	6,523561956	6,169925001	5,700439718	6,409390936	5,357552005
ICAM3	6,022367813	6,768184325	6,857980995	7,754887502	7,73470962	7,87036472
ICAM4	0	0	0	0	3,321928095	3,807354922
ICAM5	0	1,584962501	1	0	0	0
ICK	6,392317423	5,930737338	6,189824559	6,459431619	5,169925001	5,554588852
ICMT	6,189824559	6,189824559	5,977279923	5,247927513	5,857980995	5,95419631
ICOS	4,754887502	4,64385619	5,129283017	6,321928095	5,977279923	6,321928095
ICOSLG	0	0	0	0	0	0
ID1	0	0	0	4,087462841	2,321928095	4,95419631

ID2	9,204571144	9,303780748	8,977279923	8,50779464	8,797661526	8,531381461
ID3	7,523561956	7,312882955	7,321928095	7,577428828	7,17990909	7,409390936
ID4	0	0	0	0	0	0
IDE	5,727920455	5,554588852	5,614709844	5,459431619	5,169925001	5,169925001
IDH1	6,87036472	6,882643049	6,95419631	4,857980995	4,247927513	3,807354922
IDH2	7,651051691	7,820178962	7,754887502	4,857980995	5,64385619	3,807354922
IDH3A	6,50779464	6,727920455	6,614709844	5,614709844	6,247927513	6,321928095
IDH3B	6,409390936	5,832890014	6,06608919	6,700439718	6,189824559	6,882643049
IDH3G	5,554588852	5,727920455	5,129283017	4,700439718	3,700439718	2
IDI1	7,714245518	7,554588852	7,483815777	7,426264755	7,400879436	7,965784285
IDI2	0	0	0	0	0	3,169925001
IDI2-AS1	0	0	0	0	1,584962501	0
IDO1	8,21916852	8,370687407	8,503825738	3,321928095	4,64385619	0
IDO2	4,523561956	5,392317423	4,523561956	0	0	0
IDS	9,519636253	9,63481105	9,594324604	9,68474862	9,640244936	9,63481105
IDUA	3	3,700439718	3,584962501	2,321928095	3,700439718	0
IER2	9,087462841	9,262094845	9,036173613	8,199672345	8,426264755	8,174925683
IER3	9,612868497	9,985841937	9,95419631	7,169925001	8,209453366	6,700439718
IER3IP1	7,960001932	7,888743249	7,894817763	7,658211483	7,807354922	7,592457037
IER5	9,97441459	10,05392588	9,980139578	9,894817763	10,00562455	9,917372079
IER5L	4,857980995	4,906890596	4,906890596	1	3,700439718	2
IFFO1	7,339850003	7,539158811	7,375039431	6,882643049	6,321928095	5,700439718
IFFO2	6,189824559	6,845490051	6,714245518	7,266786541	7,523561956	7,055282436
IFI16	10,43045255	10,28424575	10,36522885	10,09143539	10,05799172	10,20579325
IFI27	5,491853096	5,95419631	5,930737338	2,807354922	0	5,169925001
IFI27L1	0	3,321928095	3,321928095	1	0	3,169925001
IFI27L2	5,392317423	5,129283017	5,321928095	5,129283017	5,285402219	3,807354922
IFI30	5,044394119	5	4,459431619	3,321928095	2,321928095	0
IFI35	5,672425342	5,247927513	5,459431619	4,523561956	4	4,321928095
IFI44	5,882643049	6,14974712	6,06608919	5,930737338	5,857980995	6,169925001
IFI44L	7,055282436	6,781359714	7,076815597	6,409390936	6,087462841	6,321928095
IFI6	6,714245518	6,965784285	7	1	3,700439718	3,169925001
IFIH1	7,876516947	7,451211112	7,592457037	6,930737338	7,139551352	7,055282436
IFIT1	3,700439718	4,169925001	4,247927513	2,321928095	3	3,807354922
IFIT1B	0	0	0	0	0	0
IFIT2	6,845490051	6,768184325	6,409390936	5,614709844	5,857980995	6,247927513
IFIT3	7,8008999	7,960001932	7,894817763	4,523561956	6,375039431	6,882643049
IFIT5	7,312882955	7,159871337	7,22881869	7,321928095	7,22881869	7,672425342
IFITM1	1	2,321928095	1,584962501	4,087462841	1,584962501	0
IFITM10	0	0	0	2,807354922	3,321928095	2
IFITM2	6,14974712	6,392317423	6,409390936	7,14974712	7,285402219	7,247927513
IFITM3	5,95419631	6,266786541	6,044394119	1	3,700439718	2
IFITM4P	0	0	0	0	0	0
IFITM5	0	0	0	0	0	0
IFNA1	0	0	0	0	0	0
IFNA10	0	0	0	0	0	0
IFNA13	0	0	0	1	0	0
IFNA14	0	0	0	0	0	0
IFNA16	0	0	0	0	0	0
IFNA17	0	0	0	0	0	0
IFNA2	0	0	0	0	0	0
IFNA21	0	0	0	0	0	0
IFNA22P	0	0	0	0	0	0
IFNA4	0	0	0	0	0	0
IFNA5	1	0	0	0	0	0
IFNA6	0	0	0	0	0	0
IFNA7	0	0	0	0	0	0
IFNA8	0	0	0	0	0	3,169925001

IFNAR1	7,876516947	7,900866808	7,87036472	7,392317423	7,209453366	7,700439718
IFNAR2	8,353146825	8,531381461	8,45532722	7,781359714	7,948367232	7,592457037
IFNB1	0	0	0	0	0	0
IFNE	0	0	0	0	0	0
IFNG	3,807354922	2,807354922	2,584962501	6,06608919	8,379378367	8,392317423
IFNGR1	8,17990909	8,290018847	8,044394119	6,50779464	6,807354922	6,491853096
IFNGR2	8,562242424	8,599912842	8,164906927	6,06608919	6,375039431	6,169925001
IFNK	0	0	0	0	0	0
IFNW1	0	0	0	0	0	0
IFRD1	7,851749041	7,417852515	7,491853096	7,614709844	7,50779464	7,918863237
IFRD2	5	5,087462841	4,95419631	5,129283017	4,459431619	4,95419631
IFT122	3	3,584962501	3,807354922	3,807354922	3	3,169925001
IFT140	1	0	0	0	2,321928095	0
IFT172	3,321928095	3,321928095	3,169925001	1	4	4,321928095
IFT20	6,459431619	6,339850003	6,375039431	6,768184325	6,768184325	6,409390936
IFT27	5,64385619	5,727920455	6,108524457	5,357552005	5,459431619	5,554588852
IFT43	4	4,523561956	3,700439718	4,321928095	4,64385619	3,169925001
IFT46	4,64385619	4,087462841	3,906890596	4,087462841	5,285402219	2
IFT52	5,426264755	5,459431619	4,700439718	5,247927513	5,781359714	4,95419631
IFT57	6,741466986	6,584962501	6,459431619	7,169925001	6,918863237	6,06608919
IFT74	6,022367813	5,930737338	6	6,22881869	6,189824559	4,64385619
IFT80	5,491853096	5,832890014	6	5,700439718	5,781359714	6,491853096
IFT81	3	3,169925001	3,169925001	4,087462841	2,321928095	3,169925001
IFT88	5,357552005	5,727920455	5,672425342	6,129283017	6,247927513	6,321928095
IGBP1	7,965784285	8,174925683	7,864186145	8,396604781	8,299208018	8,475733431
IGBP1P1	3,321928095	3,906890596	4,392317423	2,807354922	4	0
IGDCC3	0	0	0	1	1,584962501	3,169925001
IGDCC4	1	0	0	0	0	3,807354922
IGF1	3,459431619	3,700439718	3	5,930737338	5,554588852	5,554588852
IGF1R	7,665335917	7,417852515	7,6794801	8,049848549	8,022367813	8,426264755
IGF2	0	0	0	0	0	0
IGF2BP1	0	0	0	1	0	3,169925001
IGF2BP2	5,672425342	5,727920455	5,169925001	5,700439718	4	5,95419631
IGF2BP3	4,169925001	3,700439718	3,584962501	2,321928095	3,321928095	3,807354922
IGF2R	9,638435914	9,792790294	9,990103964	8,86727874	8,894817763	8,366322214
IGFALS	0	0	0	0	0	0
IGFBP1	0	0	0	0	0	0
IGFBP2	1,584962501	3	3,321928095	0	3,700439718	2
IGFBP3	4,584962501	3,169925001	2,584962501	3,807354922	3,700439718	2
IGFBP4	2,584962501	2,321928095	3,584962501	2,807354922	3	0
IGFBP5	1,584962501	1	2,584962501	4,087462841	3	5,169925001
IGFBP6	0	0	0	0	0	0
IGFBP7	4,857980995	4,64385619	4,64385619	3,321928095	4	0
IGFBPL1	0	0	0	0	0	0
IGFL1	0	0	0	0	0	0
IGFL2	0	0	0	0	0	0
IGFL3	0	0	0	0	0	0
IGFL4	0	0	0	0	0	0
IGFLR1	6,988684687	6,727920455	6,409390936	5,754887502	5,459431619	5,95419631
IGFN1	1	0	0	1	0	0
IGHMBP2	4,392317423	4,321928095	4,523561956	4,857980995	5,087462841	3,169925001
IGIP	5,64385619	5,614709844	5,906890596	6,658211483	6,044394119	6,247927513
IGLL1	0	0	0	0	0	0
IGLL3P	0	0	0	0	0	0
IGLL5	1,584962501	0	1	2,807354922	4	2
IGLON5	0	0	0	0	0	0
IGSF1	0	0	0	0	0	0
IGSF10	1	2,584962501	2,584962501	5,700439718	5,781359714	6,491853096

IGSF11	0	0	0	0	0	0
IGSF11-AS1	0	0	0	0	0	0
IGSF21	0	0	0	0	0	0
IGSF22	0	1	1	0	0	0
IGSF23	0	0	0	0	0	0
IGSF3	1,584962501	1,584962501	0	2,321928095	1,584962501	2
IGSF5	0	0	0	0	0	0
IGSF6	9,938109326	9,769837844	9,726218159	5,832890014	6,087462841	5,357552005
IGSF8	4,64385619	4,087462841	4,700439718	4,321928095	4,95419631	3,807354922
IGSF9	0	0	0	0	0	2
IGSF9B	0	1,584962501	0	1	2,321928095	0
IHH	0	0	0	0	0	0
IK	9,116343961	8,95419631	8,933690655	9,884170519	9,960001932	10,01959073
IKBIP	6,95419631	6,845490051	6,554588852	4,700439718	5,781359714	3,807354922
IKBKB	7,499845887	7,491853096	7,6794801	7,876516947	7,491853096	7,129283017
IKBKE	6,06608919	6	5,754887502	5	5,285402219	4,95419631
IKBKG	0	0	0	0	0	0
IKZF1	9,884170519	9,884170519	9,896332404	10,80251637	10,69609817	10,94251451
IKZF2	8,515699838	8,45532722	8,550746785	9,199672345	9,21916852	9,315149562
IKZF3	8,927777962	8,813781191	8,994353437	9,818582177	9,796039609	9,828136484
IKZF4	5,64385619	5,392317423	5,357552005	6,741466986	5,459431619	7,098032083
IKZF5	6,658211483	6,857980995	7,022367813	7,022367813	7,159871337	7,209453366
IL10	1	3	2	4,087462841	4	6,06608919
IL10RA	9,159871337	9,4325419	9,394462695	8,625708843	8,971543554	8,312882955
IL10RB	6,339850003	6,857980995	6,965784285	6,321928095	5,781359714	6,409390936
IL11	0	0	0	1	0	0
IL11RA	6,266786541	6,832890014	6,741466986	7,209453366	6,857980995	7,209453366
IL12A	2,807354922	1	1	0	0	0
IL12B	0	0	0	1	1,584962501	0
IL12RB1	5,700439718	5,584962501	5,523561956	4,523561956	3	2
IL12RB2	2,807354922	3,169925001	2,584962501	3,807354922	4,459431619	0
IL13	0	0	0	2,321928095	0	2
IL13RA1	8,971543554	8,960001932	8,927777962	5	4,459431619	4,95419631
IL13RA2	0	0	0	0	0	0
IL15	5,64385619	5,64385619	5,459431619	3,807354922	3,700439718	3,807354922
IL15RA	6,266786541	6,442943496	6,426264755	5,247927513	4,807354922	3,169925001
IL16	8,845490051	9,06608919	9,388017285	9,722807531	9,726218159	9,394462695
IL17A	0	0	2	1	1,584962501	0
IL17B	0	0	0	0	0	0
IL17C	0	1,584962501	0	0	0	0
IL17D	0	0	0	0	0	0
IL17F	0	0	1,584962501	0	0	0
IL17RA	9,071462363	9,197216693	9,169925001	8,184875343	8,330916878	7,942514505
IL17RB	0	1	0	0	0	0
IL17RC	3,321928095	3	4	2,321928095	0	2
IL17RD	0	0	1,584962501	0	1,584962501	0
IL17RE	0	0	0	0	0	2
IL17REL	0	0	0	0	0	0
IL18	3,321928095	3,700439718	3,807354922	0	0	0
IL18BP	7,936637939	7,794415866	7,906890596	2,807354922	2,321928095	3,807354922
IL18R1	5,64385619	5,832890014	5,700439718	6,700439718	6,321928095	6,569855608
IL18RAP	4,247927513	5,129283017	5,700439718	6,22881869	6,321928095	5,832890014
IL19	0	0	0	3,807354922	3	4,64385619
IL1A	1,584962501	2,321928095	2,584962501	1	4,459431619	2
IL1B	8,139551352	8,417852515	8,118941073	8,6794801	9,599912842	8,129283017
IL1F10	0	0	0	0	0	0
IL1R1	6,475733431	6,108524457	6,247927513	4,857980995	3,321928095	5,169925001
IL1R2	6,554588852	6,894817763	6,658211483	1	3,700439718	5,169925001

IL1RAP	5,832890014	5,672425342	6,06608919	3,321928095	4,459431619	5,700439718
IL1RAPL1	0	0	2	2,321928095	0	3,169925001
IL1RAPL2	0	0	0	0	0	0
IL1RL1	3,906890596	4,087462841	3,169925001	3,321928095	4,807354922	3,807354922
IL1RL2	0	1,584962501	0	0	0	3,169925001
IL1RN	6,700439718	7,375039431	6,768184325	5,357552005	7,451211112	4,95419631
IL2	1,584962501	3,321928095	4	4,321928095	4,247927513	5,554588852
IL20	0	0	0	0	0	0
IL20RA	1	1,584962501	0	4,857980995	4,459431619	5,357552005
IL20RB	1	2,584962501	0	4,087462841	4	3,807354922
IL21	3,321928095	3,321928095	2,584962501	4,857980995	6,129283017	5,832890014
IL21R	7,011227255	7,169925001	6,658211483	7,894817763	7,900866808	8,159871337
IL22	0	0	0	1	1,584962501	0
IL22RA1	0	0	0	0	0	0
IL22RA2	0	0	0	0	0	0
IL23A	5,169925001	5	5,554588852	6,741466986	6,129283017	5,700439718
IL23R	0	0	0	1	0	0
IL24	0	0	0	0	2,321928095	0
IL25	0	0	0	0	0	0
IL26	0	0	0	0	2,321928095	4,64385619
IL27	3,700439718	3	2,584962501	0	0	0
IL27RA	7,451211112	7,64385619	7,383704292	6,882643049	7,139551352	6,247927513
IL2RA	6,569855608	6,189824559	6,930737338	6,820178962	6,882643049	6,882643049
IL2RB	8,30833903	8,129283017	8,164906927	7,813781191	8,184875343	7,787902559
IL2RG	8,312882955	8,238404739	8,339850003	8,554588852	8,933690655	8,204571144
IL3	0	0	0	0	0	0
IL31	0	0	0	2,321928095	0	0
IL31RA	2,584962501	0	0	2,321928095	0	3,169925001
IL32	6,807354922	6,658211483	7,209453366	7,303780748	7,475733431	7,491853096
IL33	0	0	0	0	0	0
IL34	0	0	0	0	0	0
IL36A	0	0	0	0	0	0
IL36B	0	0	0	0	0	0
IL36G	0	0	0	2,807354922	2,321928095	0
IL36RN	0	0	0	0	0	0
IL37	0	0	0	0	0	0
IL3RA	6,857980995	7,108524457	7,312882955	5,247927513	6,832890014	5,169925001
IL4	1	1	1,584962501	2,807354922	0	2
IL4I1	5,584962501	5,727920455	6,409390936	1	3,321928095	0
IL4R	8,071462363	8,434628228	8,603626345	8,614709844	8,82336724	8,491853096
IL5	0	0	0	0	0	0
IL5RA	1	0	2,584962501	0	0	3,169925001
IL6	1	0	0	2,807354922	3,321928095	2
IL6R	8,768184325	9	8,994353437	9,038918989	9,005624549	8,927777962
IL6ST	8,921840937	8,873444113	9,084808388	8,885696373	8,77148947	8,348728154
IL7	4,392317423	4,321928095	2,807354922	1	2,321928095	3,807354922
IL7R	11,48884435	11,37666806	11,43567026	11,55458885	11,47015044	11,25620869
IL9	0	0	0	0	0	0
IL9R	0	0	0	0	0	0
ILDRI1	0	1	1	0	0	0
ILDRI2	0	0	1	2,321928095	1,584962501	3,807354922
ILF2	8,005624549	8,194756854	8,118941073	8,584962501	8,614709844	8,77807713
ILF3	8,388017285	8,523561956	8,636624621	9,184875343	8,909893084	9,197216693
ILK	6,22881869	5,930737338	6,614709844	5,357552005	5,169925001	4,64385619
ILKAP	6,95419631	7,392317423	7,17990909	7,491853096	7,523561956	7,813781191
ILVBL	4,459431619	4,392317423	4,392317423	2,321928095	2,321928095	2
IMMP1L	5,321928095	5,169925001	4,906890596	5,832890014	5,857980995	5,554588852
IMMP2L	4,754887502	5,129283017	4,754887502	6,321928095	6,129283017	6,700439718

IMMT	7,936637939	7,754887502	7,554588852	7,247927513	7,451211112	6,820178962
IMP3	8,636624621	8,927777962	8,654636029	8,515699838	8,888743249	8,475733431
IMP4	6,022367813	6,459431619	5,807354922	6,409390936	6,409390936	6,409390936
IMPA1	7,238404739	7,087462841	6,95419631	6,768184325	7,06608919	6,965784285
IMPA2	4,584962501	4,523561956	3,906890596	0	0	0
IMPACT	7,06608919	6,754887502	6,820178962	5,523561956	5,087462841	5,95419631
IMPAD1	7,857980995	7,787902559	7,721099189	7,672425342	7,64385619	7,942514505
IMPDH1	5,209453366	5,357552005	5,727920455	1	1,584962501	0
IMPDH2	6,686500527	6,741466986	6,614709844	7,392317423	7,672425342	7,491853096
IMPG1	0	0	0	0	0	0
IMPG2	2,807354922	1,584962501	1	5,614709844	3,700439718	6,491853096
INA	0	0	0	0	0	0
INCA1	0	0	0	0	0	0
INCENP	3,459431619	4,459431619	4,584962501	3,321928095	4,247927513	3,169925001
INE1	1,584962501	0	0	0	0	0
INF2	4,169925001	3,807354922	3,807354922	3,807354922	4,247927513	0
ING1	6,714245518	6,686500527	6,392317423	7,055282436	6,768184325	7,055282436
ING2	7,839203788	7,6794801	7,409390936	6,584962501	6,918863237	6,62935662
ING3	8,257387843	8,164906927	8,28077077	7,942514505	7,977279923	7,965784285
ING4	5,930737338	6,14974712	6,266786541	6,22881869	6,700439718	6,754887502
ING5	7,06608919	7,108524457	7,459431619	7,475733431	6,807354922	7,209453366
INGX	0	0	0	0	0	0
INHA	0	2,321928095	0	0	0	0
INHBA	7,209453366	7,108524457	6,768184325	7,189824559	8,103287808	7,539158811
INHBB	0	0	0	2,321928095	3,321928095	3,169925001
INHBC	0	0	0	0	0	0
INHBE	0	0	0	0	0	0
INMT	0	0	0	0	0	0
INO80	7,491853096	7,357552005	7,62935662	7,906890596	7,900866808	7,787902559
INO80B	4,95419631	5,169925001	5,247927513	6,50779464	5,977279923	5,357552005
INO80C	5,044394119	5,169925001	5,554588852	4,700439718	4,807354922	4,64385619
INO80D	8,233619677	8,317412614	8,164906927	8,614709844	8,330916878	8,700439718
INO80E	6,247927513	6,459431619	6,741466986	6,882643049	6,942514505	6,62935662
INPP1	5,426264755	5,392317423	4,906890596	4,700439718	4,95419631	4,321928095
INPP4A	7,54689446	7,285402219	7,247927513	7,672425342	7,285402219	7,46760555
INPP4B	7,383704292	7,50779464	7,22881869	8,294620749	8,082149041	8,312882955
INPP5A	5,247927513	5,64385619	5,321928095	5,882643049	5,930737338	6,169925001
INPP5B	6,22881869	6,357552005	6,554588852	6,554588852	6,539158811	6,321928095
INPP5D	8,894817763	8,87036472	8,836050355	9,294620749	9,245552706	8,982993575
INPP5E	5,321928095	5,247927513	5	6,06608919	5,554588852	5,169925001
INPP5F	5,357552005	4,523561956	5,321928095	5,247927513	4,807354922	3,807354922
INPP5J	0	0	0	0	0	0
INPP5K	6,044394119	5,781359714	6	6,658211483	6,247927513	5,95419631
INPPL1	7,06608919	7,129283017	7,247927513	7,285402219	7,366322214	7,348728154
INS	0	0	0	0	0	0
INS-IGF2	0	0	0	0	0	0
INSC	0	1	0	0	1,584962501	4,321928095
INSIG1	8,214319121	8,262094845	7,912889336	6,794415866	7,044394119	7,169925001
INSIG2	6,700439718	6,599912842	6,475733431	6,977279923	6,965784285	7,098032083
INSL3	1	1,584962501	1	5,357552005	4,247927513	5,832890014
INSL4	0	0	0	0	0	0
INSL5	0	0	0	0	0	0
INSL6	0	1,584962501	0	0	3	3,807354922
INSM1	2,584962501	1,584962501	2,807354922	0	0	0
INSM2	0	0	0	0	0	0
INSR	6,044394119	5,614709844	5,700439718	5,832890014	4,95419631	6,169925001
INSRR	0	0	0	0	0	0
INTS1	3,906890596	4,087462841	4,700439718	3,807354922	2,321928095	3,807354922

INTS10	6,807354922	6,768184325	6,965784285	7,189824559	7,022367813	7,129283017
INTS12	5	4,906890596	4,64385619	4,321928095	3	3,807354922
INTS2	6,375039431	5,977279923	5,977279923	7,247927513	7,17990909	8,049848549
INTS3	4,857980995	4,906890596	5,459431619	6,129283017	5,64385619	5,554588852
INTS4	5,700439718	5,247927513	5,321928095	5,523561956	4	5,357552005
INTS5	6,189824559	6,285402219	6,409390936	6	6,087462841	4,64385619
INTS6	7,794415866	7,62935662	7,820178962	7,982993575	7,768184325	8,016808288
INTS7	5,357552005	4,95419631	4,906890596	0	2,321928095	3,169925001
INTS8	6,741466986	6,584962501	6,50779464	7,22881869	7,17990909	7,515699838
INTS9	5	5,426264755	4,95419631	4,523561956	4,95419631	4,64385619
INTU	1	2,807354922	2,584962501	2,321928095	1,584962501	3,807354922
INVS	4,906890596	4,523561956	4,459431619	5	4,247927513	6,06608919
IP6K1	6,303780748	5,930737338	6,409390936	7,169925001	7,62935662	7,276124405
IP6K2	6,754887502	6,741466986	6,832890014	7,994353437	7,693486957	7,622051819
IP6K3	0	0	0	0	0	0
IPCEF1	8,103287808	8,21916852	8,330916878	8,86727874	8,625708843	8,758223215
IPMK	7,721099189	7,672425342	7,426264755	7,055282436	7,348728154	6,930737338
IPO11	5,247927513	5,087462841	5	5,614709844	6,044394119	6,491853096
IPO13	4,321928095	4,087462841	3,584962501	1	1,584962501	4,321928095
IPO4	3,700439718	3,584962501	2,584962501	1	2,321928095	3,807354922
IPO5	7,721099189	7,451211112	7,607330314	7,554588852	7,994353437	7,348728154
IPO7	8,603626345	8,754887502	8,727920455	8,985841937	8,636624621	8,857980995
IPO8	7,820178962	7,651051691	7,665335917	8,339850003	8,011227255	7,592457037
IPO9	7,076815597	7,159871337	6,988684687	7,189824559	6,768184325	6,930737338
IPP	4,584962501	4,906890596	3,807354922	2,807354922	5,169925001	3,807354922
IPPK	5,64385619	5,523561956	5,584962501	4,700439718	5,64385619	5,357552005
IQCA1	2,807354922	1	1	2,321928095	1,584962501	3,169925001
IQCB1	5,882643049	6,044394119	6,129283017	7,409390936	7,022367813	7,312882955
IQCC	1	0	0	1	1,584962501	0
IQCD	0	2,321928095	0	0	0	4,321928095
IQCE	4,64385619	4,857980995	5,459431619	7,022367813	6,614709844	8,108524457
IQCF1	0	0	0	0	0	0
IQCF2	0	0	0	0	0	0
IQCF3	0	0	0	0	0	0
IQCF5	0	0	0	0	0	0
IQCF6	0	0	0	0	0	0
IQCG	4,700439718	4,857980995	4,906890596	5	4,95419631	4,64385619
IQCH	0	0	1,584962501	2,321928095	1,584962501	2
IQCI	0	0	0	0	0	0
IQCI-SCHIP1	0	0	0	0	0	0
IQCK	2,807354922	2,807354922	3,169925001	3,807354922	4	4,95419631
IQGAP1	10,4767462	10,44604941	10,29806257	9,447083226	9,479780264	9,144658243
IQGAP2	10,03617361	9,759888183	9,859534786	9,394462695	9,184875343	9
IQGAP3	0	0	0	0	1,584962501	4,321928095
IQSEC1	6,845490051	6,894817763	7,17990909	6,794415866	6,375039431	6,569855608
IQSEC2	4,857980995	5,321928095	5,459431619	3,807354922	2,321928095	2
IQSEC3	0	1,584962501	0	0	0	0
IQUB	0	1	0	2,321928095	1,584962501	4,95419631
IRAK1	7,651051691	7,845490051	7,54689446	6,554588852	6,539158811	6,754887502
IRAK1BP1	4,169925001	3,584962501	3,584962501	5,357552005	5,169925001	5,554588852
IRAK2	4,321928095	4,087462841	4	5,700439718	5,392317423	5,832890014
IRAK3	7,900866808	7,721099189	7,982993575	2,807354922	4,247927513	3,807354922
IRAK4	7,768184325	7,813781191	7,599912842	8,184875343	7,832890014	7,894817763
IREB2	9,17990909	9,269126679	9,276124405	9,556506055	9,544964433	9,836050355
IRF1	10,13314221	10,14720492	10,20823436	9,499845887	9,787902559	9,696967526
IRF2	8,845490051	8,622051819	8,499845887	8,781359714	8,82336724	8,836050355
IRF2BP1	1	1,584962501	2	2,321928095	1,584962501	0
IRF2BP2	11,027906	11,027906	11,00632608	10,42836017	10,49385545	10,32305476

IRF2BPL	8,499845887	8,622051819	8,266786541	7,851749041	7,658211483	7,761551232
IRF3	6,426264755	6,894817763	7,108524457	7,22881869	7,22881869	7,011227255
IRF4	6,807354922	6,50779464	6,700439718	7,14974712	7	7,562242424
IRF5	6,189824559	6,22881869	6,129283017	4,523561956	3	4,321928095
IRF6	0	0	0	0	0	0
IRF7	5,672425342	5,459431619	4,95419631	4,523561956	4,95419631	0
IRF8	8,321928095	8,098032083	7,851749041	7,076815597	7,022367813	7,409390936
IRF9	3,807354922	3,169925001	3,807354922	4,087462841	4,247927513	4,321928095
IRGC	0	0	0	0	0	0
IRGM	0	1,584962501	1,584962501	0	0	0
IRGQ	5,169925001	4,857980995	5,882643049	4,087462841	5,285402219	0
IRS1	4,392317423	3,169925001	3,584962501	4,321928095	5,285402219	3,807354922
IRS2	8,204571144	8,14974712	7,768184325	7,839203788	7,924812504	7,787902559
IRS4	0	0	0	0	0	0
IRX1	0	0	0	0	0	0
IRX2	4,321928095	4,392317423	4,523561956	7,247927513	7,348728154	8,108524457
IRX3	0	0	0	0	0	0
IRX4	0	0	0	0	0	0
IRX5	0	0	0	0	0	0
IRX6	0	0	0	0	0	0
ISCA1	5,781359714	5,129283017	5,426264755	6,189824559	6,247927513	4,321928095
ISCA2	6,554588852	6,22881869	5,977279923	6,321928095	6,247927513	5,832890014
ISCU	9,344295908	9,35974956	9,312882955	9,824958741	9,726218159	9,810571635
ISG15	5,357552005	5,614709844	5,672425342	4,523561956	4,459431619	4,321928095
ISG20	7,139551352	7,417852515	7,651051691	7	7,400879436	6,569855608
ISG20L2	6,554588852	6,375039431	6,303780748	6,741466986	6,741466986	6,754887502
ISL1	1,584962501	0	0	0	0	2
ISL2	0	0	0	0	0	0
ISLR	0	0	0	0	0	0
ISLR2	0	0	0	0	0	0
ISM1	3,584962501	1	3,321928095	0	1,584962501	0
ISM2	0	0	0	1	0	0
ISOC1	7,21916852	6,62935662	7,055282436	6,50779464	7,087462841	6,491853096
ISOC2	4	3,807354922	3,807354922	0	1,584962501	0
ISPD	2,807354922	3,584962501	2,807354922	2,807354922	3	0
IST1	8,164906927	8,422064766	8,375039431	8,832890014	8,851749041	8,903881846
ISX	0	0	0	0	0	0
ISY1	6,658211483	6,392317423	6,807354922	6,22881869	6,409390936	6,409390936
ISY1-RAB43	0	0	0	0	0	0
ISYNA1	1	1	1,584962501	2,321928095	1,584962501	0
ITCH	6,781359714	6,658211483	6,569855608	6,62935662	6,918863237	6,754887502
ITFG1	7,303780748	7,392317423	7,459431619	7,813781191	7,599912842	7,761551232
ITFG2	6,375039431	6,409390936	6,50779464	6,22881869	6,614709844	6,409390936
ITGA1	4,700439718	5,044394119	5,357552005	5,523561956	5,930737338	6,700439718
ITGA10	2,807354922	2,584962501	3,321928095	5,523561956	4,64385619	5,554588852
ITGA11	2,584962501	2,584962501	2	4,857980995	3,700439718	4,321928095
ITGA2	1,584962501	2,584962501	1,584962501	4,523561956	4	5,357552005
ITGA2B	0	1	0	2,321928095	0	2
ITGA3	2,584962501	1,584962501	3,584962501	4,523561956	4,459431619	4,64385619
ITGA4	7,348728154	7	6,988684687	7,64385619	7,285402219	7,672425342
ITGA5	4	4,95419631	4,392317423	5,614709844	5,169925001	4,64385619
ITGA6	7,8008999	7,599912842	7,577428828	8,710806434	8,6794801	8,700439718
ITGA7	1	1	1	3,321928095	3	4,95419631
ITGA8	0	0	0	0	2,321928095	0
ITGA9	0	0	0	3,321928095	1,584962501	4,95419631
ITGAD	0	0	0	0	0	0
ITGAE	6,06608919	5,857980995	5,459431619	5,882643049	6,189824559	5,357552005
ITGAL	7,21916852	7,400879436	7,539158811	7,62935662	7,22881869	7,375039431

ITGAM	7,62935662	7,74819285	7,658211483	5,700439718	5,459431619	5,554588852
ITGAV	6,285402219	6,442943496	6,06608919	3,321928095	4,807354922	0
ITGAX	8,113742166	7,845490051	8,118941073	4,087462841	5,392317423	4,95419631
ITGB1	8,113742166	7,918863237	8,144658243	8,392317423	8,321928095	8,271463028
ITGB1BP1	6,426264755	6,50779464	6	6,409390936	6,658211483	6,882643049
ITGB1BP2	1,584962501	2,321928095	0	1	0	2
ITGB2	11,60408986	11,60408986	11,52012755	10,09407769	10,28424575	9,419960178
ITGB3	0	0	0	0	0	0
ITGB3BP	5,807354922	6,129283017	5,727920455	6,50779464	6,539158811	6,491853096
ITGB4	0	0	0	0	0	0
ITGB5	1,584962501	2,807354922	2	1	0	3,807354922
ITGB6	0	0	0	0	0	0
ITGB7	6,977279923	7,055282436	6,658211483	6,321928095	6,50779464	6,169925001
ITGB8	3,906890596	3,700439718	4,754887502	5,754887502	5,781359714	6,247927513
ITGBL1	1	0	3,169925001	4,321928095	4,459431619	5,554588852
ITIH1	0	0	0	0	0	0
ITIH2	0	0	0	0	0	0
ITIH3	0	0	0	0	0	0
ITIH4	0	1	1,584962501	0	3	0
ITIH5	1	0	1,584962501	3,321928095	3,321928095	4,64385619
ITIH6	0	0	0	0	0	0
ITK	8,113742166	8,092757141	8,044394119	9,632995197	9,649256178	9,781359714
ITLN1	0	0	0	0	0	0
ITLN2	0	0	0	0	0	0
ITM2A	8,092757141	8,139551352	8,290018847	8,857980995	8,894817763	8,807354922
ITM2B	11,05596023	10,90162116	10,85486838	10,42101286	10,27029533	10,15860969
ITM2C	6,129283017	6,285402219	6,614709844	6,882643049	7,087462841	7,055282436
ITPA	6,700439718	6,741466986	6,906890596	7,022367813	6,832890014	7,055282436
ITPK1	6,475733431	6,741466986	6,475733431	5	5,169925001	0
ITPK1-AS1	0	1,584962501	0	3,321928095	3,321928095	4,95419631
ITPKA	0	0	1	0	1,584962501	0
ITPKB	5,321928095	5,857980995	5,906890596	7,098032083	6,409390936	6,965784285
ITPKC	4,392317423	3,584962501	3,906890596	3,807354922	3,700439718	2
ITPR1	8,038918989	8,060695932	8,375039431	7,813781191	7,965784285	7,994353437
ITPR2	9,257387843	9,071462363	9,342074668	8,396604781	8,285402219	8,463524373
ITPR3	6,22881869	6,169925001	6,339850003	6,409390936	6,189824559	5,95419631
ITPRIP	5,129283017	5,044394119	4,64385619	4,087462841	4,64385619	3,169925001
ITPRIPL1	4,523561956	4,857980995	4,754887502	5,832890014	5,392317423	5,554588852
ITPRIPL2	8,426264755	8,438791853	8,73809226	5,129283017	5,857980995	4,64385619
ITSN1	4,321928095	4,459431619	3,321928095	1	3,700439718	2
ITSN2	9,56414949	9,409390936	9,449148645	9,700439718	9,556506055	9,853309555
IVD	5,781359714	6,087462841	5,700439718	5,614709844	5,781359714	3,807354922
IVL	0	0	0	0	0	0
IVNS1ABP	8,668884984	8,573647187	8,618385502	8,918863237	9,45532722	8,531381461
IWS1	8,475733431	8,366322214	8,422064766	8,810571635	8,73809226	8,826548487
IYD	2,321928095	0	1	0	2,321928095	3,807354922
IZUMO1	0	0	0	0	0	0
IZUMO2	0	0	0	1	0	2
IZUMO4	0	0	3	1	1,584962501	2
JAG1	4	4	4,459431619	0	0	0
JAG2	1	1	0	0	0	0
JAGN1	6,247927513	6,741466986	6,658211483	6,95419631	7,209453366	6,62935662
JAK1	10,52552081	10,54689446	10,5028318	10,51076417	10,52747701	10,28424575
JAK2	8,46760555	8,312882955	8,64385619	6,845490051	6,375039431	5,95419631
JAK3	6,247927513	6,50779464	7,159871337	7,392317423	7,523561956	7,562242424
JAKMIP1	4,523561956	4,700439718	4,64385619	5,614709844	5,285402219	2
JAKMIP2	6,459431619	6,087462841	6,339850003	6,189824559	6,539158811	6,882643049
JAKMIP3	0	0	0	0	0	5,169925001

JAM2	0	0	0	2,321928095	0	3,169925001
JAM3	3,584962501	2,807354922	3,169925001	3,807354922	3	0
JARID2	8,599912842	8,581200582	8,511752654	8,426264755	8,523561956	8,299208018
JAZF1	7,499845887	7,392317423	6,832890014	6,95419631	7,17990909	7,098032083
JAZF1-AS1	0	0	0	2,807354922	1,584962501	0
JDP2	6,409390936	6,375039431	6,22881869	3,807354922	3,700439718	3,169925001
JKAMP	7,741466986	7,531381461	7,523561956	6,845490051	7,366322214	6,409390936
JMJD1C	8,885696373	8,696967526	8,86727874	9,189824559	8,845490051	9,057991723
JMJD4	3,807354922	4,321928095	4,584962501	5,247927513	5,392317423	5,554588852
JMJD6	6,044394119	6,303780748	6,714245518	6,882643049	7,06608919	6,321928095
JMJD7	0	0	0	0	0	0
JMJD7-PLA2G4B	1	1	1	0	0	0
JMJD8	4	4,392317423	4,169925001	4,857980995	4,807354922	4,95419631
JMY	8,038918989	7,651051691	7,839203788	8,714245518	8,618385502	9,041659152
JOSD1	7,17990909	7,339850003	7,357552005	7,813781191	7,707359132	7,965784285
JOSD2	2,321928095	0	2	0	2,321928095	0
JPH1	0	0	0	0	0	0
JPH2	0	0	0	0	0	0
JPH3	0	0	0	0	0	0
JPH4	0	0	0	0	0	0
JPX	6,794415866	6,727920455	7,022367813	8,413627929	8,14974712	8,744833837
JRK	3,700439718	4,95419631	4,392317423	5,700439718	5,169925001	0
JRKL	7,076815597	6,857980995	6,741466986	8,103287808	7,781359714	8,189824559
JSRP1	1	0	0	0	0	0
JTB	7,285402219	7,813781191	7,209453366	7,554588852	7,584962501	7,894817763
JUN	9,209453366	9,144658243	8,980139578	7,714245518	7,599912842	8,049848549
JUNB	9,758223215	9,932214752	9,962896005	8,330916878	8,573647187	8,491853096
JUND	9,076815597	9,342074668	9,379378367	8,044394119	8,139551352	7,761551232
JUP	3,459431619	3,321928095	4	2,807354922	1,584962501	0
KAAG1	0	1	0	1	2,321928095	2
KALRN	1,584962501	2,321928095	0	0	1,584962501	4,321928095
KANK1	4,169925001	4	4,169925001	4,321928095	4	3,807354922
KANK2	2,584962501	1,584962501	1,584962501	0	0	0
KANK3	0	1	0	0	0	0
KANK4	0	3,169925001	0	3,321928095	3,321928095	4,64385619
KANSL1	8,797661526	8,804131021	9,041659152	9,154818109	9,084808388	9,095397023
KANSL1-AS1	5,523561956	5,044394119	5,129283017	6,409390936	5,781359714	6,700439718
KANSL1L	5,882643049	5,459431619	5,491853096	5,523561956	5,977279923	5,554588852
KANSL2	6,108524457	5,832890014	5,584962501	6,554588852	6,321928095	6,754887502
KANSL3	7,312882955	7,276124405	7,330916878	7,62935662	7,948367232	7,741466986
KARS	8,724513853	8,882643049	8,764871591	8,647458426	8,682994584	8,569855608
KAT2A	5,169925001	5	4,64385619	5,129283017	4,807354922	4,64385619
KAT2B	7,77478706	7,442943496	7,693486957	7,169925001	7,022367813	6,06608919
KAT5	6,426264755	6,714245518	6,754887502	6,554588852	5,977279923	6,247927513
KAT6A	9,605479518	9,552669098	9,471675214	10,24079133	10,13699111	10,45532722
KAT6B	8,159871337	7,965784285	8,21916852	8,060695932	7,768184325	8,033423002
KAT7	7,375039431	7,276124405	7,118941073	7,303780748	7,400879436	7,832890014
KAT8	5,672425342	5,672425342	5,882643049	6,459431619	5,930737338	5,554588852
KATNA1	6,50779464	7,129283017	6,727920455	6,845490051	6,50779464	5,700439718
KATNAL1	4,584962501	4,087462841	4,64385619	3,321928095	4,64385619	3,807354922
KATNAL2	2,321928095	1,584962501	2	5,357552005	4,459431619	4,64385619
KATNB1	4,392317423	3,321928095	3,700439718	4,321928095	1,584962501	2
KAZALD1	0	0	0	0	0	3,807354922
KAZN	1	0	0	1	0	3,169925001
KBTBD11	3	3	4,087462841	2,807354922	0	0
KBTBD12	0	0	0	0	0	0
KBTBD13	0	0	0	0	0	0
KBTBD2	7,857980995	7,50779464	7,77478706	7,813781191	7,994353437	7,942514505

KBTBD3	5,129283017	5	4,392317423	4,321928095	5,169925001	2
KBTBD4	5,044394119	5,781359714	5,491853096	5,357552005	6,189824559	6,700439718
KBTBD6	5,392317423	5,459431619	5,392317423	6,554588852	6,50779464	6,06608919
KBTBD7	7,247927513	7,209453366	7,011227255	7,982993575	7,977279923	8,257387843
KBTBD8	4,857980995	4,64385619	3,321928095	5,129283017	5,392317423	4,321928095
KCMF1	7,409390936	7,592457037	7,491853096	7,794415866	8,055282436	8,144658243
KCNA1	0	0	0	0	0	0
KCNA10	0	0	0	0	0	0
KCNA2	2,584962501	1,584962501	1	4,087462841	3,700439718	5,169925001
KCNA3	4,754887502	4,087462841	4,584962501	5,754887502	4,95419631	6,169925001
KCNA4	1	0	0	0	0	0
KCNA5	1,584962501	1,584962501	0	1	0	0
KCNA6	0	0	0	0	0	0
KCNA7	0	0	0	0	0	0
KCNAB1	1,584962501	0	0	0	1,584962501	2
KCNAB2	7,515699838	7,614709844	7,665335917	7,826548487	7,924812504	7,539158811
KCNAB3	3	4,087462841	3,584962501	5,247927513	4,459431619	6,06608919
KCNB1	1,584962501	0	1	0	1,584962501	0
KCNB2	0	0	0	0	0	0
KCNC1	0	0	0	2,807354922	0	0
KCNC2	0	0	0	0	3	0
KCNC3	0	0	1	0	0	0
KCNC4	4,392317423	4	4,087462841	4,523561956	2,321928095	4,321928095
KCND1	0	0	0	0	2,321928095	3,169925001
KCND2	0	0	1	3,321928095	3	3,169925001
KCND3	0	0	0	2,321928095	2,321928095	0
KCNE1	0	0	0	0	0	0
KCNE2	0	0	0	0	0	3,169925001
KCNE3	7,851749041	7,54689446	7,592457037	1	4	3,807354922
KCNE4	0	0	1	1	0	3,807354922
KCNF1	0	0	0	0	0	0
KCNG1	1,584962501	2,321928095	1,584962501	0	0	0
KCNG2	0	0	0	0	0	0
KCNG3	0	0	0	0	0	0
KCNG4	0	0	0	0	0	0
KCNH1	2,321928095	0	0	1	0	2
KCNH2	2,321928095	1,584962501	1,584962501	1	2,321928095	3,169925001
KCNH3	0	0	0	0	0	0
KCNH4	0	0	0	0	0	0
KCNH5	2,584962501	0	0	4,321928095	1,584962501	5,169925001
KCNH6	0	0	0	0	0	0
KCNH7	0	0	0	0	0	0
KCNH8	0	0	0	0	0	0
KCNIP1	0	0	0	0	0	0
KCNIP2	0	1	0	0	0	0
KCNIP3	0	0	0	0	0	0
KCNIP4	1	0	1,584962501	1	0	0
KCNJ1	0	0	0	0	0	0
KCNJ10	3	3,169925001	2,807354922	2,321928095	0	2
KCNJ11	1,584962501	2,584962501	2	0	0	0
KCNJ12	0	0	0	0	0	2
KCNJ13	0	0	0	1	1,584962501	0
KCNJ14	3,906890596	4,087462841	3,700439718	6,06608919	6,087462841	6,700439718
KCNJ15	3,807354922	3,584962501	3,584962501	2,321928095	2,321928095	2
KCNJ16	0	1	1	2,321928095	0	0
KCNJ2	5,247927513	4,95419631	5,392317423	3,321928095	3	3,169925001
KCNJ2-AS1	1,584962501	2,584962501	1	0	0	0
KCNJ3	1	0	0	2,321928095	2,321928095	0

KCNJ4	0	0	0	2,807354922	2,321928095	4,64385619
KCNJ5	0	0	0	0	0	0
KCNJ6	2,321928095	1	1	3,807354922	3	4,64385619
KCNJ8	0	0	0	0	0	0
KCNJ9	0	0	0	0	0	0
KCNK1	0	1	0	0	0	0
KCNK10	1,584962501	1	0	1	3,700439718	3,169925001
KCNK12	1	0	1,584962501	0	0	3,169925001
KCNK13	2,584962501	2,584962501	2,584962501	0	0	0
KCNK15	0	0	0	0	0	0
KCNK16	0	0	0	0	0	0
KCNK17	0	0	0	0	0	0
KCNK18	0	0	0	0	0	0
KCNK2	0	0	0	0	0	0
KCNK3	0	0	0	0	3	0
KCNK4	0	0	0	0	0	0
KCNK5	0	0	0	0	0	0
KCNK6	6,475733431	6,303780748	6,285402219	5	5,087462841	4,321928095
KCNK7	0	0	0	0	0	0
KCNK9	0	0	1	2,321928095	0	2
KCNMA1	6,375039431	6,459431619	6,523561956	4,321928095	4,459431619	3,169925001
KCNMB1	3,906890596	4,087462841	4,64385619	4,700439718	4,247927513	5,554588852
KCNMB2	0	0	0	0	0	0
KCNMB3	0	2,321928095	1	0	0	0
KCNMB4	4,169925001	4,392317423	3,700439718	4,087462841	3,321928095	4,321928095
KCNN1	0	0	0	2,321928095	2,321928095	4,321928095
KCNN2	0	0	0	0	0	0
KCNN3	3,584962501	2,321928095	3	6	5,781359714	7,348728154
KCNN4	5,321928095	5,285402219	5,523561956	4,700439718	5,087462841	2
KCNQ1	5,523561956	5,554588852	5,321928095	5,700439718	5,169925001	5,554588852
KCNQ1DN	0	0	0	0	0	0
KCNQ1OT1	6,50779464	6,409390936	7,189824559	8,330916878	8,396604781	9,197216693
KCNQ2	0	0	0	0	1,584962501	0
KCNQ3	1,584962501	1	1	0	0	0
KCNQ4	0	0	0	0	0	0
KCNQ5	1,584962501	0	2	2,321928095	0	0
KCNRG	2,807354922	1,584962501	0	2,321928095	3	3,807354922
KCNS1	0	0	0	0	0	0
KCNS2	0	0	0	0	0	0
KCNS3	0	0	0	0	0	0
KCNT1	0	0	0	0	0	0
KCNT2	0	0	0	0	1,584962501	0
KCNU1	0	0	1,584962501	2,321928095	0	0
KCNV1	0	0	0	0	0	0
KCNV2	0	0	0	0	0	0
KCP	0	0	0	0	3	3,169925001
KCTD1	3,906890596	2,807354922	2	5,357552005	4,95419631	5,95419631
KCTD10	6,266786541	6,169925001	5,426264755	6,882643049	6,658211483	6,930737338
KCTD11	3,459431619	3,169925001	1,584962501	3,807354922	0	0
KCTD12	9,573647187	9,451211112	9,162391329	5,754887502	5,64385619	5,700439718
KCTD13	3,807354922	4,700439718	4,95419631	4,700439718	4,247927513	5,357552005
KCTD14	0	0	0	0	0	0
KCTD15	2,321928095	3,321928095	2,584962501	0	0	0
KCTD16	3,584962501	4,169925001	4,459431619	6,321928095	6,459431619	7,129283017
KCTD17	4,584962501	5,426264755	4,857980995	3,807354922	3	0
KCTD18	5,392317423	5,247927513	5,523561956	6	6,321928095	6,247927513
KCTD19	0	0	0	0	0	2
KCTD2	5,584962501	5,977279923	5,807354922	5,930737338	6,375039431	5,554588852

KCTD20	7,247927513	7,339850003	7,247927513	6,658211483	7,108524457	6,700439718
KCTD21	3,459431619	3,807354922	4	2,321928095	3,321928095	0
KCTD3	4,584962501	4,95419631	4,584962501	4,087462841	4	5,169925001
KCTD4	0	0	0	0	0	0
KCTD5	7,882643049	7,721099189	7,515699838	7,491853096	7,614709844	7,622051819
KCTD6	5,426264755	4,906890596	5,247927513	4,523561956	5,169925001	3,807354922
KCTD7	6,599912842	6,614709844	6,523561956	6,22881869	6,129283017	4,64385619
KCTD8	0	0	0	2,321928095	2,321928095	0
KCTD9	6,339850003	6,129283017	6,375039431	6,794415866	6,741466986	6,820178962
KDEL1	0	0	0	0	0	0
KDEL2	5	5,247927513	5,129283017	4,700439718	4,64385619	5,169925001
KDEL1R	8,299208018	8,233619677	8,370687407	7,768184325	8,071462363	7,700439718
KDEL2R	7,686500527	7,839203788	7,820178962	6,95419631	6,882643049	6,491853096
KDEL3	0	0	0	0	0	0
KDM1A	6,285402219	6,523561956	6,339850003	6,768184325	6,614709844	6,321928095
KDM1B	6,044394119	5,807354922	5,857980995	2,807354922	3,700439718	4,64385619
KDM2A	9,236014192	9,060695932	9,383704292	9,577428828	9,299208018	9,461479447
KDM2B	8,366322214	8,370687407	8,54689446	8,14974712	8,055282436	7,918863237
KDM3A	8,686500527	8,361943774	8,434628228	8,276124405	8,985841937	8,174925683
KDM3B	7,665335917	7,442943496	7,491853096	7,614709844	7,62935662	7,442943496
KDM4A	7,139551352	7,129283017	7	6,930737338	6,882643049	6,754887502
KDM4B	6,569855608	6,781359714	6,930737338	7,098032083	7,321928095	7,129283017
KDM4C	7,033423002	6,832890014	7,076815597	7,577428828	7,475733431	7,87036472
KDM4D	0	2,321928095	0	0	0	0
KDM5A	9,786269628	9,874981348	10,06877828	10,04028972	9,965784285	10,13699111
KDM5B	7,139551352	7,312882955	7,554588852	7,658211483	8,011227255	8,238404739
KDM5C	6,906890596	7,257387843	7,087462841	7,14974712	7,022367813	6,820178962
KDM5D	6,22881869	6,321928095	6,426264755	6,321928095	6,044394119	6,169925001
KDM6A	6,321928095	5,882643049	6	7,098032083	6,584962501	7,129283017
KDM6B	6,375039431	6,339850003	6,569855608	6,459431619	5,930737338	5,832890014
KDR	0	0	0	0	0	0
KDSR	7,426264755	7,54689446	7,434628228	8,071462363	8,21916852	8,290018847
KEAP1	6,554588852	6,832890014	6,569855608	6,741466986	6,832890014	6,820178962
KEL	0	0	0	0	0	0
KERA	0	0	0	2,807354922	1,584962501	4,95419631
KHDC1	1,584962501	0	2,584962501	2,807354922	2,321928095	3,807354922
KHDC1L	0	0	0	0	0	0
KHDRBS1	9,689997971	9,552669098	9,656424863	9,722807531	9,688250309	9,758223215
KHDRBS2	2,321928095	1,584962501	2,584962501	0	0	0
KHDRBS3	1	2,321928095	2	3,807354922	4,64385619	3,807354922
KHK	3,321928095	2,321928095	2	0	0	0
KHNYN	7,651051691	7,599912842	7,700439718	7,693486957	7,64385619	7,64385619
KHSRP	8,124121312	8,144658243	8,321928095	8,184875343	8,174925683	8,330916878
KIAA0040	8,092757141	8,317412614	8,370687407	7,768184325	7,876516947	8,016808288
KIAA0087	0	0	0	0	0	2
KIAA0100	7,17990909	7,076815597	7,948367232	6,930737338	6,409390936	7,055282436
KIAA0232	7,199672345	7,14974712	7,247927513	7,339850003	7,044394119	7,622051819
KIAA0319	0	0	0	0	0	3,169925001
KIAA0319L	7,098032083	7,50779464	7,159871337	8,113742166	8,044394119	8,174925683
KIAA0355	6,857980995	7,044394119	6,965784285	7,942514505	7,366322214	7,832890014
KIAA0391	5,129283017	4,523561956	4,906890596	5,523561956	6,189824559	5,95419631
KIAA0408	1	2,321928095	0	0	0	0
KIAA0513	6,409390936	6,658211483	6,820178962	5,129283017	5,392317423	4,95419631
KIAA0556	5,426264755	5,169925001	5,614709844	5,614709844	5,459431619	4,64385619
KIAA0586	7,257387843	6,972729923	7,159871337	7,303780748	7,312882955	7,832890014
KIAA0753	5,523561956	5,247927513	5,930737338	5,247927513	6,658211483	5,554588852
KIAA0825	3,700439718	3	3,700439718	4,321928095	3	0
KIAA0895	0	1,584962501	1	3,807354922	0	4,321928095

KIAA0895L	4,700439718	3,906890596	4,459431619	1	1,584962501	0
KIAA0930	9,531381461	9,82336724	9,614709844	6,06608919	6,965784285	5,700439718
KIAA1024	0	0	0	1	3,321928095	2
KIAA1109	9,057991723	9	9,310612782	9,273795599	9	9,21916852
KIAA1143	7,209453366	7,409390936	7,159871337	8,071462363	8,266786541	7,965784285
KIAA1147	8	7,851749041	8,016808288	8,422064766	8,45532722	8,238404739
KIAA1191	7,247927513	7,199672345	7,118941073	7,515699838	7,539158811	7,312882955
KIAA1210	0	0	0	0	0	0
KIAA1211	0	0	0	0	0	2
KIAA1217	0	0	0	2,807354922	3	5,169925001
KIAA1257	0	1,584962501	0	1	0	3,807354922
KIAA1324	2,321928095	3,321928095	3	2,807354922	3,321928095	4,64385619
KIAA1324L	3,584962501	3,700439718	3,700439718	4,087462841	3,700439718	2
KIAA1328	4,754887502	4,169925001	4,459431619	3,807354922	4	3,169925001
KIAA1522	1	0	0	1	0	0
KIAA1549	0	0	0	1	2,321928095	2
KIAA1586	5,614709844	5,426264755	5,906890596	5,832890014	6,044394119	5,169925001
KIAA1614	0	0	1	0	3,321928095	0
KIAA1671	4,392317423	4,754887502	5,209453366	5,523561956	5,285402219	5,700439718
KIAA1755	0	0	0	0	0	0
KIAA1841	5	4,169925001	3,807354922	5,129283017	4,64385619	5,169925001
KIAA1958	5	4,087462841	4,754887502	5,523561956	4	4,321928095
KIAA2013	7,707359132	7,787902559	7,658211483	7,942514505	7,614709844	7,813781191
KIAA2026	8,991521846	9,005624549	9,076815597	9,216745858	9,076815597	9,442943496
KIDINS220	8,46760555	8,744833837	8,581200582	8,071462363	8,30833903	7,813781191
KIF11	3,584962501	3	3	3,321928095	3,321928095	4,321928095
KIF12	0	0	0	0	0	0
KIF13A	7,8008999	8	8,092757141	6,321928095	6,459431619	6,754887502
KIF13B	7,011227255	6,672425342	6,87036472	6,584962501	5,977279923	6,62935662
KIF14	3	3	2,584962501	3,321928095	4,64385619	3,807354922
KIF15	3,321928095	2,584962501	3	4,857980995	4,64385619	5,554588852
KIF16B	6,108524457	5,781359714	5,781359714	5,523561956	6,459431619	4,64385619
KIF17	0	0	0	0	0	0
KIF18A	3,321928095	3,321928095	2,584962501	0	1,584962501	0
KIF18B	0	0	0	2,321928095	1,584962501	3,807354922
KIF19	3	3,169925001	3	3,321928095	5,087462841	3,807354922
KIF1A	0	0	0	2,321928095	0	4,95419631
KIF1B	7,189824559	7,033423002	6,95419631	5,700439718	5,285402219	4,321928095
KIF1C	6,714245518	6,727920455	6,768184325	5,700439718	5,554588852	4,321928095
KIF20A	1	1	1	2,321928095	0	0
KIF20B	7,942514505	7,714245518	7,781359714	7,982993575	7,658211483	7,965784285
KIF21A	7,108524457	6,977279923	7,108524457	6,95419631	7,247927513	7,209453366
KIF21B	7,169925001	7,21916852	7,426264755	7,754887502	7,62935662	7,247927513
KIF22	5,906890596	6,044394119	5,930737338	5,930737338	6,584962501	4,95419631
KIF23	2,584962501	3	3	0	0	0
KIF24	0	0	0	0	0	0
KIF25	0	0	0	0	0	0
KIF26A	1	0	0	0	0	0
KIF26B	0	0	0	0	0	0
KIF27	4,169925001	2,807354922	3,906890596	4,523561956	4	4,321928095
KIF2A	9,126704473	8,960001932	8,903881846	9,499845887	9,283088353	9,620219826
KIF2B	0	0	0	0	0	0
KIF2C	1	1	0	0	0	2
KIF3A	7,577428828	7,209453366	7,383704292	7,375039431	7,693486957	7,276124405
KIF3B	6,475733431	6,894817763	6,658211483	6,375039431	6,807354922	6,700439718
KIF3C	2,321928095	2,321928095	3,584962501	0	0	0
KIF4A	0	0	0	0	0	0
KIF4B	0	0	0	5,523561956	4,459431619	6,06608919

KIF5A	1	0	2	0	0	0
KIF5B	10,16867212	10,07815081	9,874981348	9,385862401	9,379378367	9,499845887
KIF5C	5,64385619	6,06608919	5,044394119	6,930737338	6,459431619	5,700439718
KIF6	0	0	0	0	2,321928095	0
KIF7	0	0	0	0	0	0
KIF9	3,807354922	2,584962501	3,321928095	0	1,584962501	0
KIFAP3	5,491853096	5,285402219	5,554588852	5,523561956	5,727920455	6,62935662
KIFC1	2,321928095	0	0	0	0	0
KIFC2	4,523561956	3,906890596	5,044394119	4,321928095	4,807354922	3,169925001
KIFC3	3,906890596	4,64385619	4,857980995	2,321928095	4,459431619	3,807354922
KIN	7,475733431	7,238404739	7,159871337	7,851749041	7,707359132	8,21916852
KIR2DL1	2,807354922	3	3	1	4	3,807354922
KIR2DL3	2,584962501	0	1,584962501	0	1,584962501	0
KIR2DL4	0	2,584962501	2	1	1,584962501	0
KIR2DS4	1	2,584962501	0	0	0	0
KIR3DL1	3	1	2	0	2,321928095	0
KIR3DL2	2,807354922	2,321928095	1	2,807354922	4,247927513	3,169925001
KIR3DL3	0	0	0	0	0	0
KIR3DX1	0	0	0	0	0	0
KIRREL2	0	0	0	0	0	0
KIRREL3	0	0	0	0	0	0
KIRREL3-AS3	0	0	0	0	0	0
KISS1	0	0	0	0	0	0
KISS1R	3,807354922	4,459431619	3,700439718	2,321928095	3	2
KIT	4,700439718	4,95419631	4,392317423	6,50779464	5,930737338	5,95419631
KITLG	0	1	2,584962501	0	0	0
KL	2,321928095	0	0	0	0	0
KLB	1	0	0	3,807354922	3,700439718	3,807354922
KLC1	6,599912842	7,011227255	6,965784285	7,169925001	7,139551352	5,95419631
KLC2	3,459431619	2,584962501	3,807354922	2,321928095	3,700439718	3,807354922
KLC3	0	0	0	1	0	0
KLC4	3,906890596	3	4,169925001	4,857980995	4,64385619	4,95419631
KLF1	0	1	2,584962501	0	0	0
KLF10	8,451211112	8,321928095	7,845490051	7,209453366	7,383704292	7,409390936
KLF11	6,375039431	6,584962501	6,285402219	3,321928095	0	2
KLF12	8	7,965784285	7,839203788	8,303780748	8,022367813	8,06608919
KLF13	9,087462841	8,985841937	9,011227255	8,845490051	8,714245518	8,744833837
KLF14	0	0	0	0	0	0
KLF15	0	0	0	1	0	0
KLF16	5,321928095	4,857980995	4,700439718	3,807354922	4,459431619	4,64385619
KLF17	0	1,584962501	0	0	0	3,807354922
KLF2	10,63753055	10,89254282	10,75321675	10,50779464	10,59152235	9,997179481
KLF3	7,857980995	7,74819285	7,523561956	8,071462363	7,721099189	7,64385619
KLF4	7,139551352	7,17990909	6,569855608	0	2,321928095	0
KLF5	4,754887502	4,392317423	5,044394119	5,247927513	4,807354922	5,169925001
KLF6	11,24555271	11,29289676	11,03479896	9,987264012	10,31741261	9,997179481
KLF7	7,209453366	7,247927513	6,882643049	7,442943496	6,965784285	7,539158811
KLF8	4,247927513	3,700439718	2,807354922	2,321928095	3,321928095	0
KLF9	8,710806434	8,566054038	8,588714636	7,781359714	7,900866808	7,721099189
KLHDC1	5,426264755	5,129283017	5,672425342	6,22881869	6,189824559	7,129283017
KLHDC10	6	5,977279923	5,807354922	5,754887502	5,554588852	6,409390936
KLHDC2	7,499845887	7,562242424	7,665335917	8,087462841	8,071462363	8,108524457
KLHDC3	5,906890596	5,727920455	6,169925001	6,62935662	6,087462841	6,169925001
KLHDC4	5,930737338	5,857980995	5,95419631	6,584962501	6,321928095	6,700439718
KLHDC7A	0	0	2	0	2,321928095	4,321928095
KLHDC7B	3,807354922	3,169925001	3,169925001	4,523561956	2,321928095	0
KLHDC8A	0	0	0	0	0	0
KLHDC8B	3,700439718	2,807354922	3,321928095	0	0	0

KLHDC9	0	1	0	0	3	0
KLHL1	0	0	0	0	0	0
KLHL10	0	0	0	0	0	0
KLHL11	1	1	0	0	0	0
KLHL12	6	5,882643049	6,044394119	5,357552005	5,930737338	5,357552005
KLHL13	1,584962501	0	0	2,321928095	1,584962501	2
KLHL14	3,321928095	2,584962501	3	2,807354922	2,321928095	0
KLHL15	5,491853096	5,523561956	4,95419631	5,614709844	5,459431619	6,569855608
KLHL17	4,247927513	3,807354922	4,392317423	4,523561956	4,807354922	3,169925001
KLHL18	5,321928095	5,554588852	5,882643049	4,087462841	3,321928095	2
KLHL2	7,129283017	6,894817763	6,700439718	6,554588852	6,807354922	6,965784285
KLHL20	7,562242424	7,417852515	7,312882955	7,930737338	7,912889336	7,832890014
KLHL21	7,139551352	7,285402219	7	8,14974712	8,14974712	8,174925683
KLHL22	3,807354922	3,807354922	5,129283017	4,087462841	5,169925001	3,169925001
KLHL23	3	3	2,584962501	4,700439718	4,459431619	6,247927513
KLHL24	8,321928095	8,290018847	8,266786541	8,758223215	8,523561956	8,903881846
KLHL25	0	1,584962501	2,584962501	0	2,321928095	0
KLHL26	4,754887502	4,64385619	4,247927513	5	4,807354922	4,64385619
KLHL28	7,562242424	7,491853096	7,276124405	8,54303182	8,45532722	8,77807713
KLHL29	0	1	2	3,321928095	2,321928095	3,169925001
KLHL3	4,247927513	4,754887502	4,906890596	6,189824559	5,087462841	6,409390936
KLHL30	0	0	0	2,807354922	0	0
KLHL31	0	0	1	1	0	0
KLHL32	1,584962501	1,584962501	1,584962501	2,807354922	2,321928095	0
KLHL33	0	0	0	0	0	2
KLHL34	1,584962501	2,321928095	3,321928095	4,523561956	4	3,807354922
KLHL35	0	0	0	1	0	3,169925001
KLHL36	7,888743249	8,060695932	7,832890014	8,303780748	8,299208018	8,426264755
KLHL38	0	0	0	0	0	0
KLHL4	1,584962501	2,321928095	1,584962501	3,807354922	3,321928095	3,807354922
KLHL5	7,199672345	7,209453366	6,906890596	6,977279923	6,807354922	6,820178962
KLHL6	7,375039431	7,033423002	7,087462841	7,826548487	7,383704292	7,721099189
KLHL7	5,209453366	5,392317423	5,209453366	5,247927513	4,64385619	5,169925001
KLHL8	7,266786541	7,055282436	6,820178962	6,375039431	6,658211483	6,247927513
KLHL9	8	7,714245518	7,665335917	7,672425342	7,864186145	7,64385619
KLK1	1	0	0	0	1,584962501	0
KLK10	0	0	0	0	0	0
KLK11	0	0	0	2,807354922	2,321928095	2
KLK12	0	0	0	0	0	0
KLK13	0	0	0	0	0	0
KLK14	0	0	0	0	0	0
KLK15	0	0	0	0	0	0
KLK2	0	1,584962501	0	0	0	0
KLK3	0	0	0	0	0	0
KLK4	0	0	0	0	0	0
KLK5	0	0	0	0	0	0
KLK6	0	0	0	0	0	0
KLK7	0	0	0	0	0	0
KLK8	0	0	0	0	0	0
KLK9	0	0	0	0	0	0
KLKB1	0	1	1,584962501	2,807354922	2,321928095	2
KLKP1	0	0	0	0	0	0
KLLN	0	1,584962501	0	1	3,321928095	0
KLRB1	8,011227255	7,936637939	7,787902559	8,804131021	8,836050355	8,845490051
KLRC1	6,022367813	5,832890014	5,754887502	6,882643049	6,584962501	6,491853096
KLRC2	5,247927513	5,584962501	5,491853096	5,357552005	5,781359714	5,700439718
KLRC3	0	0	0	0	0	0
KLRC4	3	1	2,807354922	0	2,321928095	0

KLRC4-KLRK1	2,807354922	1,584962501	2	4,523561956	3	3,169925001
KLRD1	8,515699838	8,511752654	8,764871591	8,033423002	8,491853096	7,64385619
KLRF1	7,392317423	7,357552005	7,21916852	7,426264755	7,876516947	7,209453366
KLRF2	0	0	0	0	0	0
KLRG1	6,50779464	6,658211483	6,321928095	6,06608919	7,044394119	6,700439718
KLRG2	0	0	0	0	0	0
KLRK1	0	0	0	0	0	0
KMO	6,584962501	6,686500527	6,714245518	5	5,727920455	5,357552005
KNCN	0	0	0	0	0	0
KNDC1	0	0	0	0	0	0
KNG1	1	1	0	2,321928095	0	4,321928095
KNTC1	4,584962501	4,857980995	5,247927513	5,930737338	5,554588852	6,409390936
KPNA1	7,033423002	7,199672345	7,17990909	7,741466986	7,64385619	7,977279923
KPNA2	6,339850003	6,375039431	5,247927513	5,754887502	5,930737338	5,700439718
KPNA3	7,794415866	7,50779464	7,672425342	7,672425342	7,491853096	7,169925001
KPNA4	8,361943774	8,392317423	8,438791853	8,164906927	8,413627929	8,392317423
KPNA5	7,982993575	8,055282436	8,118941073	8,994353437	8,942514505	9,209453366
KPNA6	7,087462841	6,857980995	7,199672345	7,894817763	7,312882955	7,918863237
KPNA7	0	0	0	0	0	0
KPNB1	9,961449694	9,943979914	9,968666793	10,08081753	9,971543554	9,897845456
KPRP	0	0	0	0	0	0
KPTN	2,321928095	3,584962501	1	0	0	0
KRAS	8,903881846	9,016808288	8,836050355	8,434628228	8,625708843	8,665335917
KRBA1	2,321928095	3,169925001	3,584962501	1	3	0
KRBA2	2,321928095	2,584962501	2	4,321928095	4,64385619	3,807354922
KRBOX1	0	0	0	2,321928095	0	0
KRCC1	8,665335917	8,721099189	8,62935662	9,884170519	9,733015322	10,07547915
KREMEN1	2,807354922	3,906890596	3,700439718	0	2,321928095	3,169925001
KREMEN2	0	0	0	0	0	0
KRI1	5,64385619	5,781359714	5,857980995	6,409390936	5,285402219	4,95419631
KRIT1	6,129283017	6,044394119	5,727920455	6,882643049	6,614709844	6,882643049
KRR1	8,375039431	8,491853096	8,622051819	9,20701432	9,121533517	9,413627929
KRT1	3,807354922	3,321928095	3,169925001	5,129283017	5,727920455	5,357552005
KRT10	7,6794801	7,562242424	7,62935662	7,64385619	7,73470962	7,741466986
KRT12	0	0	0	0	0	0
KRT13	0	0	0	0	0	0
KRT14	0	0	0	0	0	0
KRT15	0	0	0	0	0	0
KRT16	0	0	0	0	0	0
KRT16P2	0	0	0	0	0	0
KRT16P3	0	0	0	0	0	0
KRT17	0	0	0	0	0	0
KRT18	0	0	0	0	0	0
KRT18P55	0	0	0	0	0	0
KRT19	0	0	0	0	0	0
KRT19P2	0	0	0	0	0	0
KRT2	0	2,584962501	2	0	0	0
KRT20	0	0	0	0	0	0
KRT222	3,584962501	4,087462841	3,169925001	6,375039431	5,727920455	6,882643049
KRT23	0	2,321928095	0	3,321928095	3,321928095	4,95419631
KRT24	0	0	0	0	0	0
KRT25	0	0	0	0	0	0
KRT26	1	1	0	3,321928095	0	4,321928095
KRT27	0	0	0	0	0	0
KRT28	0	0	0	0	0	0
KRT3	0	0	0	0	0	0
KRT31	0	0	0	0	0	0
KRT32	0	0	0	0	0	0

KRT33A	0	0	0	0	0	0
KRT33B	0	0	0	0	0	0
KRT34	0	0	0	0	0	0
KRT35	0	0	0	0	0	0
KRT36	0	0	0	0	0	0
KRT37	0	0	0	0	0	0
KRT38	0	0	0	0	0	0
KRT39	1	0	0	0	0	0
KRT4	0	0	0	0	0	0
KRT40	0	0	0	0	0	0
KRT42P	0	0	0	0	0	0
KRT5	1	0	1	0	0	0
KRT6A	0	0	0	0	0	0
KRT6B	0	0	0	0	0	0
KRT6C	0	0	0	0	0	0
KRT7	1	0	0	0	0	0
KRT71	0	0	0	0	0	0
KRT72	4,321928095	4,64385619	4,857980995	5,357552005	5,285402219	4,64385619
KRT73	3,321928095	3,807354922	3,169925001	4,321928095	0	3,807354922
KRT74	0	0	0	0	0	2
KRT75	0	0	0	0	0	0
KRT76	0	0	0	0	0	0
KRT77	0	0	0	0	0	0
KRT78	0	0	0	0	0	0
KRT79	0	0	0	0	0	0
KRT8	0	0	0	1	1,584962501	3,807354922
KRT80	0	0	0	0	0	0
KRT81	0	0	0	0	0	0
KRT82	0	0	0	0	0	0
KRT83	0	0	0	0	0	0
KRT84	0	0	0	0	0	0
KRT85	0	0	0	0	0	0
KRT86	4,321928095	4,169925001	3,321928095	0	3,700439718	3,169925001
KRT8P41	0	0	0	0	0	0
KRT9	0	0	0	0	0	0
KRTAP1-1	0	0	0	0	0	0
KRTAP1-3	0	0	0	0	0	0
KRTAP1-5	0	0	0	0	0	0
KRTAP10-1	0	0	0	0	0	0
KRTAP10-10	0	0	0	0	0	0
KRTAP10-11	0	0	0	0	0	0
KRTAP10-12	0	0	0	0	0	0
KRTAP10-2	0	0	0	0	0	0
KRTAP10-3	0	0	0	0	0	0
KRTAP10-4	0	0	0	0	0	0
KRTAP10-5	0	0	0	0	0	0
KRTAP10-6	0	0	0	0	0	0
KRTAP10-7	0	0	0	0	0	0
KRTAP10-8	0	0	0	0	0	0
KRTAP10-9	0	0	0	0	0	0
KRTAP11-1	0	0	0	0	0	0
KRTAP12-1	0	0	0	0	0	0
KRTAP12-2	0	0	0	0	0	0
KRTAP12-3	0	0	0	0	0	0
KRTAP12-4	0	0	0	0	0	0
KRTAP13-1	0	0	0	0	0	0
KRTAP13-2	0	0	0	0	0	0
KRTAP13-3	0	0	0	0	0	0

KRTAP13-4	0	0	0	0	0
KRTAP15-1	0	0	0	0	0
KRTAP16-1	0	0	0	0	0
KRTAP17-1	0	0	0	0	0
KRTAP19-1	0	0	0	0	0
KRTAP19-2	0	0	0	0	0
KRTAP19-3	0	0	0	0	0
KRTAP19-4	0	0	0	1	0
KRTAP19-5	0	0	0	0	0
KRTAP19-6	0	0	0	0	0
KRTAP19-7	0	0	0	0	0
KRTAP19-8	0	0	0	0	0
KRTAP2-1	0	0	0	0	0
KRTAP2-2	0	0	0	0	0
KRTAP2-4	0	0	0	0	0
KRTAP20-1	0	0	0	0	0
KRTAP20-2	0	0	0	0	0
KRTAP20-3	0	0	0	0	0
KRTAP20-4	0	0	0	0	0
KRTAP21-1	0	0	0	0	0
KRTAP21-2	0	0	0	0	0
KRTAP21-3	0	0	0	0	0
KRTAP22-1	0	0	0	0	0
KRTAP22-2	0	0	0	0	0
KRTAP23-1	0	0	0	0	0
KRTAP24-1	0	0	0	0	0
KRTAP25-1	0	0	0	0	0
KRTAP26-1	0	0	0	0	0
KRTAP27-1	0	0	0	0	0
KRTAP3-1	0	0	0	0	0
KRTAP3-2	0	0	0	0	0
KRTAP3-3	0	0	0	0	0
KRTAP4-1	0	0	0	0	0
KRTAP4-11	0	0	0	0	0
KRTAP4-12	0	0	0	0	0
KRTAP4-2	0	0	0	0	0
KRTAP4-3	0	0	0	0	0
KRTAP4-4	0	0	0	0	0
KRTAP4-5	0	0	0	0	0
KRTAP4-6	0	0	0	0	0
KRTAP4-7	0	0	0	0	0
KRTAP4-8	0	0	0	0	0
KRTAP4-9	0	0	0	0	0
KRTAP5-1	0	0	0	0	0
KRTAP5-10	0	0	0	0	0
KRTAP5-11	0	0	0	0	0
KRTAP5-2	0	0	0	0	0
KRTAP5-3	0	0	0	0	0
KRTAP5-4	0	0	0	0	0
KRTAP5-5	0	0	0	0	0
KRTAP5-6	0	0	0	0	0
KRTAP5-7	0	0	0	0	0
KRTAP5-8	0	0	0	0	0
KRTAP5-9	0	0	0	1	0
KRTAP6-1	0	0	0	0	0
KRTAP6-2	0	0	0	0	0
KRTAP6-3	0	0	0	0	0
KRTAP7-1	0	0	0	0	0

KRTAP8-1	0	0	0	0	0	0
KRTAP9-1	0	0	0	0	0	0
KRTAP9-2	0	0	0	0	0	0
KRTAP9-3	0	0	0	0	0	0
KRTAP9-4	0	0	0	0	0	0
KRTAP9-8	0	0	0	0	0	0
KRTAP9-9	0	0	0	0	0	0
KRTCAP2	3,700439718	3,321928095	3,906890596	2,321928095	3,700439718	2
KRTCAP3	3,906890596	2,807354922	3,169925001	3,807354922	3,321928095	2
KRTDAP	0	0	0	0	0	0
KSR1	6,247927513	6	6,044394119	5,614709844	6,087462841	3,169925001
KSR2	0	0	2,584962501	2,321928095	2,321928095	0
KTI12	5,129283017	4,754887502	4,584962501	3,807354922	4,247927513	4,64385619
KTN1	10,65284497	10,53040634	10,53040634	10,4314976	10,38909352	10,48884435
KTN1-AS1	0	0	0	0	0	0
KXD1	7,266786541	7,044394119	7,247927513	7,375039431	7,108524457	7,169925001
KY	0	0	0	0	0	0
KYNU	8,189824559	8,45532722	8,238404739	5,357552005	6,321928095	6,700439718
L1CAM	2,321928095	0	1	1	3,321928095	3,807354922
L1TD1	0	2,321928095	0	1	1,584962501	3,169925001
L2HGDH	4,247927513	4,321928095	4	4,700439718	5,392317423	4,95419631
L3MBTL1	3,584962501	3,584962501	4,169925001	4,700439718	4,247927513	5,357552005
L3MBTL2	5,491853096	6	5,95419631	6,189824559	6,285402219	4,95419631
L3MBTL3	6,977279923	6,727920455	6,781359714	7,475733431	6,918863237	7,375039431
L3MBTL4	4,584962501	4,169925001	4	4,321928095	4	5,554588852
LACC1	8,894817763	8,84862294	8,77807713	3,321928095	4	3,169925001
LACRT	0	0	0	0	0	0
LACTB	9,364134655	9,262094845	9,17990909	7,826548487	7,721099189	8,159871337
LACTB2	6,714245518	6,554588852	6,285402219	5,832890014	6,129283017	6,06608919
LAD1	2,321928095	0	1	0	0	0
LAG3	3,459431619	3,807354922	3,584962501	2,807354922	3,700439718	2
LAGE3	5,209453366	5,64385619	5,129283017	3,321928095	5,392317423	0
LAIR1	6,189824559	6,321928095	6,491853096	5,357552005	5,087462841	4,321928095
LAIR2	1,584962501	0	1,584962501	3,321928095	2,321928095	0
LALBA	0	0	0	0	0	0
LAMA1	0	1	0	3,807354922	5,392317423	5,832890014
LAMA2	0	0	2,584962501	2,321928095	1,584962501	3,169925001
LAMA3	1	0	0	2,321928095	1,584962501	3,807354922
LAMA4	0	0	1	1	0	2
LAMA5	3,459431619	1,584962501	3,584962501	4,700439718	3,321928095	6,62935662
LAMB1	1,584962501	0	0	0	0	2
LAMB2	1,584962501	0	0	2,321928095	0	4,64385619
LAMB3	1	0	0	0	0	0
LAMB4	0	0	0	1	3,700439718	3,169925001
LAMC1	3,906890596	3,700439718	3,700439718	3,321928095	0	2
LAMC2	0	0	0	0	0	0
LAMC3	0	0	0	0	0	0
LAMP1	9,761551232	9,807354922	9,847057346	9,422064766	9,278449458	9,240791332
LAMP2	9,902375114	9,818582177	9,818582177	8,573647187	8,654636029	8,744833837
LAMP3	5,129283017	5,044394119	5,209453366	3,321928095	4	3,169925001
LAMP5	0	0	1,584962501	0	0	0
LAMTOR1	8,511752654	8,335390355	8,266786541	7,906890596	8,011227255	7,965784285
LAMTOR2	6,686500527	6,807354922	6,714245518	5,614709844	6,247927513	4,64385619
LAMTOR3	7,592457037	7,348728154	7,366322214	7,076815597	7,159871337	6,62935662
LANCL1	6,50779464	6,942514505	6,700439718	6,977279923	6,658211483	6,62935662
LANCL2	4,584962501	5	4,523561956	5,459431619	4,95419631	5,554588852
LANCL3	2,321928095	2,584962501	1,584962501	0	2,321928095	0
LAP3	9,301496195	9,136991112	9,084808388	6,266786541	5,64385619	6,06608919

LAPTM4A	10,6183855	10,74062404	10,60640521	9,776433032	9,990103964	9,63481105
LAPTM4B	3	3,700439718	3,169925001	4,321928095	3,321928095	3,169925001
LAPTM5	10,50779464	10,63117706	10,74651432	10,5943246	10,6183855	10,55074679
LARP1	8,95419631	8,939579214	8,960001932	8,857980995	8,77807713	9,105908509
LARP1B	7,238404739	7,022367813	6,906890596	7,14974712	7,159871337	7,46760555
LARP4	6,965784285	7,21916852	7,022367813	7,392317423	7,044394119	7,515699838
LARP4B	8,727920455	8,503825738	8,550746785	9,164906927	9,060695932	9,17990909
LARP6	0	0	0	1	0	0
LARP7	9,303780748	9,216745858	9,303780748	9,002815016	8,962896005	9,154818109
LARS	8,092757141	8,224001674	8,082149041	8,554588852	8,30833903	8,400879436
LARS2	5,247927513	5,426264755	5	5,754887502	5,781359714	4,95419631
LAS1L	5,64385619	5,523561956	5,426264755	6,584962501	6,044394119	5,832890014
LASP1	9,842350343	9,840777924	9,73470962	9,030667136	9,226412193	8,807354922
LAT	4,459431619	4,857980995	5,209453366	5,882643049	5,169925001	5,700439718
LAT2	7,577428828	7,658211483	7,459431619	6,554588852	6,768184325	6,882643049
LATS1	8,247927513	8,238404739	8,252665432	8,366322214	8,252665432	8,700439718
LATS2	7,348728154	7,17990909	7,257387843	6,50779464	5,857980995	6,491853096
LAX1	4,392317423	4,321928095	3,584962501	5,614709844	6,247927513	5,832890014
LAYN	3,459431619	3,321928095	2,584962501	3,321928095	1,584962501	0
LBH	9,48984796	9,533329732	9,324180547	10,32080055	10,2632692	9,902375114
LBP	0	0	0	0	0	0
LBR	9,033423002	8,948367232	8,915879379	9,30833903	9,167418146	9,247927513
LBX1	0	0	0	0	0	0
LBX2	0	0	0	0	0	0
LCA5	1	1	2	2,321928095	2,321928095	3,169925001
LCA5L	0	1	1,584962501	0	0	0
LCAT	1,584962501	2,321928095	0	0	0	0
LCE1A	0	0	0	0	0	0
LCE1B	0	0	0	0	0	0
LCE1C	0	0	0	0	0	0
LCE1D	0	0	0	0	0	0
LCE1E	0	0	0	0	0	0
LCE1F	0	0	0	0	0	0
LCE2A	0	0	0	0	0	0
LCE2B	0	0	0	0	0	0
LCE2C	0	0	0	0	0	0
LCE2D	0	0	0	0	0	0
LCE3A	0	0	0	0	0	0
LCE3B	0	0	0	0	0	0
LCE3C	0	0	0	0	0	0
LCE3D	0	0	0	0	0	0
LCE3E	0	0	0	0	0	0
LCE4A	0	0	0	0	0	0
LCE5A	0	0	0	0	0	0
LCE6A	0	0	0	0	0	0
LCK	7,442943496	7,129283017	7,257387843	7,839203788	8,113742166	7,965784285
LCLAT1	6,06608919	6,06608919	6,189824559	6,375039431	6,658211483	6,491853096
LCMT1	5,426264755	5,392317423	5,584962501	5,882643049	5,727920455	5,95419631
LCMT2	4,392317423	5	4,169925001	6,266786541	6,409390936	6,247927513
LCN1	0	0	0	0	0	0
LCN10	0	0	0	0	0	0
LCN12	0	0	0	0	0	0
LCN15	0	0	0	0	0	2
LCN2	1	2,321928095	1	3,807354922	2,321928095	0
LCN6	0	0	0	0	0	0
LCN8	0	0	0	0	0	0
LCN9	0	0	0	0	0	0
LCNL1	1	0	0	1	0	3,169925001

LCOR	8,577428828	8,519636253	8,636624621	7,918863237	7,900866808	8,257387843
LCORL	7,74819285	7,707359132	7,87036472	7,22881869	7,087462841	7,098032083
LCP1	10,71681946	10,78953364	10,65284497	10,17242751	10,30035256	10,19352536
LCP2	8,873444113	8,900866808	9,011227255	8,731319031	8,754887502	8,647458426
LCT	0	0	0	1	1,584962501	0
LCTL	0	0	0	0	0	0
LDB1	5,727920455	5,727920455	6,044394119	5	5,857980995	5,832890014
LDB2	3,459431619	3,700439718	3,321928095	3,321928095	2,321928095	3,807354922
LDB3	0	0	0	2,321928095	3,321928095	4,95419631
LDHA	9,417852515	9,588714636	9,283088353	8,857980995	9,548821908	8,622051819
LDHAL6A	0	0	0	0	1,584962501	2
LDHAL6B	0	0	0	2,807354922	0	4,321928095
LDHB	8,791162889	8,854868383	9,071462363	9,888743249	9,769837844	9,726218159
LDHC	0	0	0	4,700439718	0	4,64385619
LDHD	1,584962501	0	1,584962501	0	0	0
LDLR	6,339850003	6,918863237	6,807354922	5,614709844	5,554588852	3,169925001
LDLRAD1	0	0	0	1	0	0
LDLRAD2	0	0	0	0	0	0
LDLRAD3	5,169925001	5,285402219	5,247927513	0	2,321928095	0
LDLRAP1	7,434628228	7,554588852	7,383704292	7,189824559	7,50779464	5,554588852
LDOC1	3,906890596	3,169925001	3,584962501	4,700439718	4,95419631	3,807354922
LEAP2	2,584962501	2,321928095	2	5,523561956	5,285402219	4,64385619
LECT2	0	0	0	0	0	0
LEF1	8,668884984	8,592457037	8,434628228	9,862637358	9,48984796	9,659995892
LEFTY1	0	0	0	2,807354922	3,321928095	0
LEFTY2	0	0	0	2,807354922	0	0
LEKR1	1	1,584962501	1,584962501	4,321928095	1,584962501	5,700439718
LELP1	0	0	0	0	0	0
LEMD1	0	0	0	0	1,584962501	3,169925001
LEMD2	5,727920455	5,426264755	6,044394119	6,794415866	6,658211483	6,569855608
LEMD3	8,344295908	8,224001674	8,098032083	8,625708843	8,761551232	8,845490051
LENEP	0	0	0	0	0	0
LENG1	4,754887502	4,700439718	5,044394119	3,807354922	4,247927513	4,64385619
LENG8	5,554588852	5,321928095	5,882643049	5,700439718	5,64385619	6,169925001
LENG9	0	0	0	0	0	0
LEO1	7,592457037	7,055282436	6,988684687	6,321928095	6,658211483	6,321928095
LEP	1	0	1	3,807354922	2,321928095	6,06608919
LEPR	5	4,523561956	4,857980995	5	5,554588852	5,832890014
LEPROT	8,50779464	8,17990909	8,17990909	7,357552005	7,139551352	6,930737338
LEPROTL1	9,647458426	9,638435914	9,417852515	10,17242751	10,19475685	10,04028972
LETM1	6,339850003	5,930737338	6,044394119	5,882643049	5,64385619	6,247927513
LETM2	1,584962501	1	1,584962501	4,523561956	3,321928095	4,64385619
LETMD1	5,930737338	6,087462841	6	6,906890596	7	7,375039431
LEUTX	0	0	0	0	0	0
LFNG	6,95419631	7,348728154	7,515699838	6,741466986	7,044394119	7,098032083
LGALS1	8,159871337	8,21916852	7,948367232	5	5,781359714	5,357552005
LGALS12	1	1,584962501	1	0	0	0
LGALS13	0	0	0	0	0	0
LGALS14	0	0	0	0	0	0
LGALS16	0	0	0	0	0	0
LGALS2	6,426264755	6,686500527	7,098032083	0	0	0
LGALS3	10,72195361	10,62570884	10,58965115	7,577428828	7,924812504	7,672425342
LGALS3BP	4,392317423	3,700439718	4,64385619	3,321928095	3	2
LGALS4	0	0	0	2,321928095	3,321928095	3,807354922
LGALS7	0	0	0	0	0	0
LGALS7B	0	0	0	0	0	0
LGALS8	8,87036472	8,836050355	8,854868383	9,011227255	8,807354922	9
LGALS8-AS1	0	0	0	0	0	0

LGALS9	6,807354922	6,754887502	6,129283017	4,087462841	3,700439718	2
LGALS9B	0	0	0	1	0	0
LGALS9C	0	0	0	0	0	0
LGALSL	0	0	0	2,321928095	3	4,321928095
LGI1	0	0	0	0	0	3,169925001
LGI2	0	0	0	0	0	0
LGI3	0	0	0	0	0	0
LGI4	0	2,321928095	0	3,321928095	1,584962501	4,321928095
LGMN	6,189824559	6,475733431	6,459431619	5	4,64385619	3,807354922
LGR4	3,459431619	2,584962501	2	4,523561956	3,700439718	5,357552005
LGR5	1	0	0	0	0	0
LGR6	4,64385619	4,754887502	4,584962501	5,129283017	5,459431619	4,64385619
LGSN	1,584962501	1,584962501	0	4,321928095	4,247927513	5,169925001
LHB	0	0	0	0	0	0
LHCGR	0	0	0	0	0	0
LHFPL1	0	0	0	0	0	0
LHFPL2	8,985841937	9,052568051	9,247927513	2,807354922	5,392317423	5,357552005
LHFPL3	0	0	0	0	0	0
LHFPL4	0	0	0	1	3	2
LHFPL5	0	0	0	1	0	0
LHPP	3,321928095	4,321928095	3	0	3	2
LHX1	0	2,584962501	1,584962501	4,523561956	5,459431619	6,700439718
LHX2	1	0	3,584962501	2,321928095	1,584962501	2
LHX3	0	0	0	1	1,584962501	2
LHX4	0	0	0	3,321928095	0	0
LHX5	0	0	0	0	0	2
LHX6	0	0	0	0	0	0
LHX8	0	1	0	0	0	0
LHX9	1,584962501	2,321928095	2,584962501	4,321928095	5,087462841	6,247927513
LIAS	5,523561956	5,169925001	5,129283017	5,930737338	5,857980995	6,491853096
LIF	0	0	1	0	0	0
LIFR	0	2,584962501	2	5,129283017	4,807354922	6,169925001
LIG1	5,781359714	6,303780748	6,554588852	6,409390936	6,584962501	6,169925001
LIG3	6,62935662	6,266786541	6,491853096	6,22881869	6,247927513	6,491853096
LIG4	6,129283017	5,781359714	6,375039431	7,076815597	6,50779464	7,055282436
LILRA1	5	3,700439718	4,087462841	0	0	0
LILRA2	6,285402219	6,375039431	6,584962501	0	0	0
LILRA4	3	2,807354922	1,584962501	0	0	2
LILRA5	3,321928095	4,169925001	2,584962501	0	0	0
LILRA6	5,554588852	5,727920455	6,06608919	0	3	0
LILRB1	6,942514505	6,942514505	7,011227255	5,247927513	4,807354922	5,169925001
LILRB2	8,980139578	9,019590728	9,353146825	4,321928095	4,95419631	4,321928095
LILRB3	7,442943496	7,50779464	7,276124405	0	3,321928095	2
LILRB4	8,383704292	8,451211112	8,603626345	0	3,321928095	4,321928095
LILRB5	3,459431619	2,584962501	2,807354922	0	0	0
LILRP2	0	0	0	0	0	0
LIM2	1	0	0	0	3	2
LIMA1	7,159871337	6,845490051	6,727920455	6,129283017	5,285402219	5,832890014
LIMCH1	1	2,584962501	0	3,807354922	3,700439718	4,95419631
LIMD1	5,906890596	5,977279923	5,930737338	5,459431619	5,64385619	5,832890014
LIMD2	7,383704292	7,357552005	7,475733431	7,62935662	7,781359714	6,965784285
LIME1	0	0	0	0	0	0
LIMK1	5,491853096	5,554588852	5,209453366	4,321928095	4,459431619	0
LIMK2	5,584962501	6,14974712	5,554588852	5,614709844	6,087462841	5,554588852
LIMS1	9,271463028	9,214319121	9,047123912	7,515699838	7,794415866	7,64385619
LIMS2	0	0	0	1	1,584962501	0
LIMS3	0	0	0	0	0	0
LIN28A	0	0	0	0	0	0

LIN28B	1,584962501	0	0	1	0	0
LIN37	0	1	1	2,321928095	0	0
LIN52	6,339850003	6,50779464	6,523561956	6,459431619	6,409390936	6,247927513
LIN54	6,044394119	6,22881869	5,614709844	6,700439718	6,700439718	6,569855608
LIN7A	2,584962501	3,169925001	3,906890596	0	0	0
LIN7B	3,807354922	3,906890596	3,584962501	1	0	3,169925001
LIN7C	7,285402219	7,276124405	7,247927513	7	7,285402219	7,129283017
LIN9	4,857980995	4,857980995	4,459431619	5,247927513	5,087462841	6,247927513
LINC00028	0	0	0	0	0	0
LINC00029	0	0	0	0	0	0
LINC00032	0	0	0	0	0	0
LINC00051	0	0	0	0	0	0
LINC00052	0	0	0	0	0	0
LINC00092	0	0	0	0	0	0
LINC00102	0	0	0	0	0	0
LINC00111	0	0	0	0	0	0
LINC00112	0	0	0	0	0	0
LINC00113	0	0	0	0	0	2
LINC00114	0	0	0	0	0	0
LINC00115	1,584962501	2,807354922	2,584962501	4,523561956	3	4,321928095
LINC00158	0	2,321928095	0	1	0	0
LINC00159	0	0	0	0	0	0
LINC00160	0	0	0	0	0	0
LINC00161	0	0	0	0	0	0
LINC00163	0	0	0	0	0	0
LINC00167	0	0	0	0	0	0
LINC00173	3	3,700439718	3,700439718	4,700439718	4,64385619	4,321928095
LINC00174	3,700439718	3,584962501	3,321928095	5,357552005	4	5,554588852
LINC00184	0	0	0	0	0	0
LINC00189	0	0	0	0	0	0
LINC00200	0	0	0	0	0	0
LINC00207	0	0	0	0	0	0
LINC00208	0	0	0	0	0	0
LINC00221	0	0	0	0	0	0
LINC00222	0	0	0	0	0	0
LINC00226	0	0	0	0	0	0
LINC00229	0	0	0	0	0	0
LINC00240	0	0	0	0	1,584962501	0
LINC00242	0	0	0	0	3	0
LINC00261	0	0	0	0	0	0
LINC00265	0	0	0	1	0	0
LINC00266-1	0	0	0	0	0	0
LINC00271	0	0	0	0	0	2
LINC00272	0	0	0	0	0	0
LINC00273	0	0	0	0	0	0
LINC00284	0	0	0	0	0	0
LINC00290	0	0	0	0	0	0
LINC00293	0	0	0	0	0	0
LINC00299	1	0	1,584962501	1	0	3,169925001
LINC00301	0	0	0	2,807354922	1,584962501	4,321928095
LINC00303	0	0	0	0	0	0
LINC00304	0	0	0	4,321928095	3	5,169925001
LINC00305	0	0	0	0	0	0
LINC00307	0	0	0	0	0	0
LINC00308	0	0	0	0	0	0
LINC00309	1	0	0	0	0	0
LINC00310	0	0	0	1	0	2
LINC00311	0	0	0	0	0	0

LINC00313	0	0	0	0	0	0
LINC00314	0	0	0	0	3	0
LINC00315	0	0	0	0	0	0
LINC00317	0	0	0	0	0	0
LINC00319	0	0	0	0	0	0
LINC00320	0	0	0	0	0	0
LINC00323	0	0	0	0	0	0
LINC00324	6,06608919	6,209453366	6,044394119	7,055282436	6,584962501	7,276124405
LINC00326	0	0	1,584962501	0	0	0
LINC00327	0	0	0	0	0	0
LINC00330	0	0	0	1	0	2
LINC00336	0	0	0	0	0	0
LINC00339	3	4	4,392317423	5,129283017	4,807354922	6,169925001
LINC00346	0	0	0	0	0	0
LINC00347	2,321928095	3,321928095	2,584962501	5,247927513	5,459431619	5,554588852
LINC00410	0	0	0	0	0	0
LINC00421	0	0	0	0	0	0
LINC00426	4,700439718	4,392317423	4,64385619	5,129283017	4,807354922	2
LINC00442	0	0	0	0	0	0
LINC00460	0	0	0	0	0	0
LINC00461	3,321928095	3,700439718	3,807354922	6,375039431	6,459431619	7,055282436
LINC00466	0	0	0	0	0	0
LINC00467	3,807354922	3,906890596	4,459431619	6	5,781359714	6,409390936
LINC00469	0	0	0	0	0	0
LINC00470	0	2,584962501	0	5,129283017	4,64385619	5,554588852
LINC00471	0	0	0	0	0	0
LINC00472	0	0	0	0	1,584962501	2
LINC00474	0	0	0	0	0	0
LINC00475	0	0	0	0	0	2
LINC00476	4,754887502	4,754887502	5	6,768184325	5,857980995	6,321928095
LINC00477	0	0	0	0	0	0
LINC00479	0	0	0	0	0	0
LINC00482	0	0	0	0	0	0
LINC00485	1	0	0	2,321928095	0	0
LINC00486	0	0	0	0	0	0
LINC00487	0	0	0	0	0	0
LINC00488	1	0	0	0	0	0
LINC00494	2,321928095	2,321928095	1,584962501	0	2,321928095	0
LINC00511	2,584962501	3,584962501	2,807354922	5,247927513	5,285402219	6,06608919
LINC00514	0	0	0	0	0	0
LINC00515	0	0	0	0	0	0
LINC00518	0	0	0	0	0	0
LINC00520	1,584962501	0	1,584962501	2,321928095	3,700439718	3,169925001
LINC00523	0	0	0	0	0	0
LINC00525	0	0	0	0	0	0
LINC00526	4	3,584962501	3,906890596	4,321928095	4,64385619	4,95419631
LINC00535	0	0	0	0	0	0
LINC00536	0	0	0	0	0	0
LINC00552	0	0	0	0	0	0
LINC00574	0	0	0	1	0	0
LINC00575	0	0	0	0	0	0
LINGO1	0	0	0	0	0	0
LINGO2	1	0	0	2,807354922	2,321928095	0
LINGO3	0	0	0	0	0	0
LINGO4	0	0	0	0	0	0
LIPA	10,04848687	10,07146236	9,968666793	7,076815597	7,312882955	6,754887502
LIPC	1,584962501	0	2	4,321928095	3,321928095	5,700439718
LIPE	3,584962501	3,169925001	2,807354922	3,321928095	4,459431619	3,169925001

LIPF	0	0	0	0	0	0
LIPG	0	1,584962501	0	0	1	1,584962501
LIPH	1,584962501	0	0	2,807354922	4,247927513	4,321928095
LIPI	0	0	0	0	0	2
LIPJ	0	0	0	0	0	0
LIPK	0	0	0	0	0	0
LIPM	0	0	0	0	0	0
LIPN	0	0	0	0	0	0
LIPT1	5,392317423	5,285402219	5,209453366	5,930737338	5,857980995	5,700439718
LIPT2	1,584962501	1	2,807354922	0	0	0
LITAF	9,707359132	9,908392621	9,86727874	9,517669388	9,850186838	9,625708843
LIX1	0	0	0	0	0	4,321928095
LIX1L	7,483815777	7,451211112	7,06608919	7,22881869	6,965784285	6,754887502
LLGL1	5,64385619	5,129283017	5,392317423	4,857980995	5,554588852	5,357552005
LLGL2	5,614709844	5,672425342	5,857980995	5,459431619	5,459431619	3,169925001
LLPH	7,21916852	7,14974712	6,95419631	7,531381461	7,087462841	7,700439718
LMAN1	8,864186145	8,930737338	8,864186145	9,211888295	9,250298418	9,105908509
LMAN1L	0	0	0	0	0	0
LMAN2	8,257387843	8,550746785	8,614709844	7,930737338	8,055282436	7,832890014
LMAN2L	3,584962501	4,321928095	4,169925001	3,807354922	4,247927513	3,169925001
LMBR1	5,727920455	6,129283017	5,727920455	6,62935662	6,189824559	6,321928095
LMBR1L	5,832890014	5,977279923	6,285402219	7,022367813	6,741466986	6,882643049
LMBRD1	8,566054038	8,686500527	8,810571635	8,495855027	8,471675214	8,463524373
LMBRD2	7,693486957	7,599912842	7,64385619	7,741466986	7,807354922	7,741466986
LMCD1	1,584962501	1	2	4,523561956	2,321928095	4,321928095
LMF1	3	3,169925001	2,807354922	3,321928095	3,700439718	0
LMF2	5,882643049	5,614709844	5,754887502	5,700439718	4,807354922	4,64385619
LMLN	5,129283017	4,906890596	5	6,768184325	6,375039431	6,569855608
LMNA	7,599912842	7,965784285	7,826548487	4,523561956	5,554588852	2
LMNB1	7,577428828	7,409390936	7,592457037	6,554588852	6,459431619	6,882643049
LMNB2	6,108524457	5,930737338	5,807354922	6	5,392317423	4,64385619
LMO1	0	0	0	0	0	0
LMO2	5,807354922	5,882643049	5,392317423	0	1,584962501	4,64385619
LMO3	1,584962501	0	1	1	4	4,95419631
LMO4	8,103287808	7,971543554	7,982993575	7,209453366	7,672425342	7,055282436
LMO7	6,475733431	6,392317423	6,807354922	7,303780748	7,312882955	7,348728154
LMOD1	0	0	0	0	0	0
LMOD2	0	0	0	0	0	0
LMOD3	0	1	0	2,321928095	2,321928095	2
LMTK2	4	4,169925001	4,64385619	4,087462841	5,392317423	2
LMTK3	1,584962501	1,584962501	3,321928095	0	3	0
LMX1A	1	0	0	0	0	0
LMX1B	0	0	0	0	0	0
LNP1	1	1	0	5,459431619	4,95419631	6,169925001
LNPEP	9,321928095	9,169925001	9,370687407	9,182394353	9,21916852	9,17990909
LNK1	0	1,584962501	0	4,087462841	3	5,700439718
LNK2	6,06608919	5,321928095	5,392317423	6,554588852	5,857980995	5,700439718
LOH12CR2	1,584962501	2,321928095	1	0	0	0
LONP1	5,614709844	5,977279923	6,523561956	6,266786541	6,247927513	6,169925001
LONP2	7,686500527	7,741466986	7,820178962	8,124121312	7,781359714	8,366322214
LONRF1	7,383704292	7,357552005	7,247927513	6,409390936	6,584962501	6,820178962
LONRF2	2,584962501	1,584962501	2	3,321928095	1,584962501	3,169925001
LONRF3	0	2,321928095	2	1	0	0
LOR	0	0	0	0	0	0
LOX	0	0	0	0	0	0
LOXHD1	0	0	0	0	0	0
LOXL1	1,584962501	2,321928095	3	3,321928095	3	0
LOXL2	2,321928095	2,584962501	2	5,247927513	4,64385619	5,554588852

LOXL3	4,523561956	4	4,857980995	0	0	0
LOXL4	0	0	0	0	1,584962501	0
LPA	1,584962501	0	0	0	1,584962501	0
LPAL2	2,321928095	0	2,584962501	3,807354922	0	0
LPAR1	5,672425342	5,930737338	5,727920455	0	1,584962501	0
LPAR2	5,700439718	6	5,459431619	7,076815597	6,965784285	6,491853096
LPAR3	1	1,584962501	1	2,807354922	3	0
LPAR4	1,584962501	2,321928095	0	3,321928095	4,247927513	5,357552005
LPAR5	3,906890596	4,392317423	4,459431619	5,614709844	5,392317423	4,321928095
LPAR6	8,654636029	8,54689446	8,459431619	7,971543554	7,820178962	8,189824559
LPCAT1	5,781359714	5,977279923	6,392317423	6	6,321928095	6,321928095
LPCAT2	7,417852515	7,169925001	6,95419631	1	2,321928095	3,807354922
LPCAT3	5,64385619	5,857980995	5,169925001	3,321928095	4	3,807354922
LPCAT4	3,700439718	5,357552005	5,700439718	5,247927513	4,95419631	0
LPGAT1	8,62935662	8,257387843	8,531381461	7,426264755	7,285402219	6,930737338
LPIN1	6,930737338	6,918863237	7,055282436	8,348728154	8,252665432	8,569855608
LPIN2	8,271463028	8	8,199672345	8,396604781	8,558420713	8,622051819
LPIN3	0	1,584962501	0	0	0	0
LPL	4,247927513	4,64385619	2	1	2,321928095	2
LPO	0	0	0	0	1,584962501	0
LPP	7,87036472	7,787902559	8,129283017	6,266786541	6,321928095	6,965784285
LPP-AS2	0	1	0	0	1,584962501	0
LPXN	8,434628228	8,573647187	8,475733431	8,668884984	8,77148947	8,647458426
LRAT	2,584962501	3	1,584962501	5,832890014	6,044394119	6,930737338
LRBA	6,303780748	6,189824559	6,807354922	7,375039431	7,139551352	7,442943496
LRCH1	6,741466986	6,942514505	6,599912842	7,592457037	7,434628228	6,965784285
LRCH2	0	0	0	0	0	0
LRCH3	7,442943496	7,321928095	7,714245518	7,614709844	7,569855608	7,64385619
LRCH4	0	0	1	1	0	0
LRFN1	3,807354922	3,321928095	3,700439718	6,584962501	6,087462841	5,554588852
LRFN2	1	0	1	2,321928095	0	0
LRFN3	2,807354922	3,169925001	4	0	0	0
LRFN4	3,459431619	3,169925001	2,807354922	0	0	0
LRFN5	0	0	1	0	1,584962501	2
LRG1	2,321928095	4,087462841	2,584962501	0	0	2
LRGUK	0	1	0	1	0	0
LRIF1	8,060695932	7,787902559	7,741466986	7,781359714	8,055282436	7,87036472
LRIG1	6,807354922	6,554588852	6,714245518	7,577428828	7,614709844	7,491853096
LRIG2	5,700439718	5,584962501	5,614709844	6,459431619	6,044394119	7,011227255
LRIG3	0	0	0	0	0	0
LRIT1	0	0	0	0	0	0
LRIT2	0	0	0	0	0	2
LRIT3	1	0	0	0	0	0
LRMP	7,330916878	7,14974712	7,22881869	7,339850003	7,599912842	6,820178962
LRP1	7,523561956	7,475733431	7,569855608	3,321928095	1,584962501	3,807354922
LRP10	7,562242424	7,714245518	7,73470962	7,392317423	7,312882955	7,375039431
LRP11	0	0	0	0	0	0
LRP12	5	4,95419631	5,321928095	5,247927513	4,247927513	6,06608919
LRP1B	2,321928095	1	2,584962501	2,807354922	0	4,95419631
LRP2	1,584962501	1	1	2,321928095	0	0
LRP2BP	3,459431619	3,169925001	3,906890596	5,129283017	5,727920455	6,882643049
LRP3	0	0	0	0	0	0
LRP4	0	0	0	0	0	0
LRP5	1,584962501	1	0	0	0	0
LRP5L	3,906890596	4,169925001	3,807354922	2,807354922	1,584962501	0
LRP6	3	3,169925001	3,807354922	4,700439718	4,95419631	5,169925001
LRP8	6,14974712	5,95419631	6,247927513	5,614709844	5,727920455	4,64385619
LRPAP1	7,912889336	8,118941073	8,214319121	6,554588852	6,807354922	6,409390936

LRPPRC	7,781359714	7,918863237	8,129283017	8,50779464	8,45532722	8,636624621
LRR1	6,906890596	7	7,022367813	7,055282436	7,159871337	7,46760555
LRRC1	3,584962501	3,584962501	2,807354922	5,357552005	4,807354922	6,06608919
LRRC10	0	0	0	0	0	0
LRRC10B	0	0	0	0	0	0
LRRC14	4,754887502	4,459431619	5	5,523561956	5,930737338	5,554588852
LRRC14B	0	0	0	0	0	0
LRRC15	0	0	0	0	0	0
LRRC17	2,321928095	0	1	5,129283017	3,700439718	4,95419631
LRRC18	0	0	0	0	0	0
LRRC19	0	0	0	0	0	0
LRRC2	2,321928095	1	2,584962501	2,807354922	3,321928095	3,807354922
LRRC20	0	0	0	0	0	0
LRRC23	3,321928095	4,392317423	3,807354922	4,087462841	4,64385619	3,807354922
LRRC24	0	0	1	0	0	0
LRRC25	3,700439718	4,087462841	3	0	0	0
LRRC26	0	0	0	0	0	0
LRRC27	2,321928095	2,584962501	3,169925001	3,321928095	2,321928095	0
LRRC28	4,392317423	4,754887502	5,129283017	4,700439718	5,554588852	5,357552005
LRRC29	0	0	0	0	0	0
LRRC3	2,584962501	3,321928095	3,700439718	0	0	0
LRRC30	0	0	0	0	0	0
LRRC31	0	0	0	0	0	0
LRRC32	1,584962501	2,321928095	2,584962501	1	0	0
LRRC34	2,807354922	0	1,584962501	2,321928095	1,584962501	3,169925001
LRRC36	0	0	0	1	0	2
LRRC37A	0	0	0	0	0	0
LRRC37A2	1,584962501	2,807354922	0	2,321928095	3	0
LRRC37A3	0	1	0	2,807354922	3	4,321928095
LRRC37B	5,247927513	5	4,700439718	5,523561956	4,64385619	5,357552005
LRRC37BP1	4,857980995	4,700439718	4,523561956	4,857980995	4,95419631	3,807354922
LRRC38	0	0	0	0	0	0
LRRC39	1,584962501	0	1	3,807354922	3,321928095	0
LRRC3B	0	1	0	2,807354922	3,321928095	5,169925001
LRRC3C	0	0	0	0	0	0
LRRC4	2,807354922	3,169925001	2	0	0	0
LRRC40	6,768184325	6,741466986	6,554588852	6,741466986	6,459431619	6,247927513
LRRC41	6,247927513	5,882643049	6,189824559	6,189824559	6,129283017	6,169925001
LRRC42	5,554588852	5,727920455	5,357552005	4,321928095	5,459431619	0
LRRC43	0	0	0	0	0	0
LRRC45	2,584962501	2,807354922	2	1	3	0
LRRC46	0	0	0	0	0	0
LRRC47	7,531381461	7,761551232	7,523561956	8,375039431	8,370687407	8,174925683
LRRC49	1	0	1,584962501	1	2,321928095	3,169925001
LRRC4B	0	0	0	0	0	0
LRRC4C	0	0	0	2,321928095	3	0
LRRC52	0	0	0	0	0	0
LRRC55	0	0	0	0	0	0
LRRC56	0	1	1,584962501	1	1,584962501	3,807354922
LRRC57	5,672425342	5,044394119	5,209453366	3,321928095	4,247927513	5,169925001
LRRC58	7,651051691	7,607330314	7,794415866	7,554588852	7,285402219	7,622051819
LRRC59	6,64385619	6,62935662	6,700439718	5,523561956	5,857980995	6,700439718
LRRC6	3,584962501	3	2,807354922	5,523561956	3,321928095	5,95419631
LRRC61	0	2,321928095	1	0	0	0
LRRC66	0	0	1	0	0	2
LRRC69	2,321928095	2,321928095	2,807354922	4,523561956	2,321928095	4,95419631
LRRC7	1	1,584962501	0	1	4,459431619	2
LRRC70	0	0	0	0	0	0

LRRC71	0	0	0	0	0	0
LRRC72	2,807354922	3,169925001	2	5,247927513	5,554588852	5,554588852
LRRC73	0	0	0	0	0	0
LRRC8A	6,375039431	6,475733431	6,375039431	6,375039431	6,459431619	6,321928095
LRRC8B	4,95419631	4,169925001	4,584962501	5,247927513	4,95419631	4,64385619
LRRC8C	7,876516947	7,900866808	7,918863237	8,174925683	8,159871337	8,033423002
LRRC8D	7,930737338	7,894817763	7,781359714	8,139551352	8,21916852	8,348728154
LRRC8E	0	0	0	2,807354922	1,584962501	4,321928095
LRCC1	6,321928095	6,087462841	5,930737338	6,266786541	6,129283017	5,95419631
LRRD1	0	0	0	0	0	0
LRRFIP1	9,638435914	9,475733431	9,594324604	8,459431619	8,731319031	8,312882955
LRRFIP2	7,62935662	7,672425342	7,6794801	7,982293575	7,584962501	7,721099189
LRRIQ1	1,584962501	1,584962501	1,584962501	4,523561956	4,247927513	4,321928095
LRRIQ3	2,584962501	3	1,584962501	2,321928095	3,700439718	4,321928095
LRRIQ4	0	0	0	0	0	0
LRRK1	5,554588852	5	5,129283017	3,807354922	3	4,321928095
LRRK2	9,044394119	8,960001932	9,06608919	5,459431619	5,554588852	6,247927513
LRRN1	0	1	0	1	0	0
LRRN2	0	0	0	0	1,584962501	2
LRRN3	6,781359714	6,714245518	6,768184325	8,330916878	8,113742166	8,129283017
LRRN4	0	0	0	0	0	0
LRRN4CL	0	0	0	0	0	0
LRRTM1	0	0	0	0	0	0
LRRTM2	0	0	2,584962501	5,523561956	4,459431619	5,700439718
LRRTM3	0	0	0	0	0	0
LRRTM4	2,321928095	1	2	2,807354922	2,321928095	5,554588852
LRSAM1	2,584962501	2,807354922	3,321928095	3,321928095	2,321928095	3,169925001
LRTM1	0	1	0	3,321928095	1,584962501	2
LRTM2	0	0	0	0	0	0
LRTOMT	1	2,584962501	1	1	3,321928095	0
LRWD1	2,321928095	3	2,584962501	4,523561956	4	2
LSAMP	2,321928095	2,321928095	3,584962501	4,321928095	3,321928095	4,64385619
LSG1	7,169925001	7	7,087462841	7,693486957	7,451211112	7,491853096
LSM1	6,247927513	6,087462841	5,906890596	6,266786541	6,375039431	5,95419631
LSM10	6,554588852	6,459431619	6,303780748	5,832890014	6,189824559	5,357552005
LSM11	4,459431619	4,392317423	3,906890596	4,321928095	3,700439718	3,169925001
LSM12	0	0	1	0	0	0
LSM14A	9,204571144	9,084808388	8,897845456	9,182394353	9,312882955	9,21916852
LSM14B	7,651051691	7,707359132	7,693486957	7,357552005	7,554588852	6,930737338
LSM2	6,491853096	6,339850003	6,266786541	5,700439718	6,247927513	3,169925001
LSM3	7,076815597	7,044394119	7,022367813	6,95419631	7,383704292	6,491853096
LSM4	6,599912842	6,409390936	6,392317423	6,768184325	6,409390936	6,700439718
LSM5	7,672425342	7,577428828	7,357552005	8,495855027	8,573647187	8,366322214
LSM6	7,577428828	7,672425342	7,348728154	7,169925001	7,475733431	6,700439718
LSM7	6,62935662	6,087462841	6,584962501	6,321928095	6,882643049	6,569855608
LSP1	8,312882955	8,139551352	8,46760555	7,392317423	7,851749041	7,129283017
LSR	5,584962501	5,672425342	6,044394119	6,22881869	6,459431619	6,06608919
LSS	4,169925001	4,087462841	4	0	2,321928095	3,169925001
LST1	7,357552005	7,348728154	7,22881869	7,864186145	6,965784285	8,515699838
LTA	4,857980995	5,087462841	5,129283017	6,06608919	6,459431619	7,129283017
LTA4H	9,689997971	9,691743519	9,636624621	8,13442632	8,184875343	7,977279923
LTB	11,11439305	11,20028561	11,45532722	11,43567026	11,48884435	11,26912668
LTB4R	5,285402219	3,807354922	5,426264755	6,584962501	5,554588852	6,820178962
LTB4R2	2,584962501	0	1	0	0	0
LTBP1	0	0	1	0	2,321928095	2
LTBP2	1,584962501	0	1,584962501	6	4,64385619	6,700439718
LTBP3	5,209453366	5,930737338	6,189824559	6,554588852	6,459431619	6,62935662
LTBP4	3,807354922	3,700439718	3,807354922	2,321928095	4	0

LTBR	6,392317423	7,011227255	6,95419631	1	2,321928095	0
LTC4S	0	0	0	0	0	0
LTF	2,584962501	2,807354922	3,807354922	4,523561956	4,247927513	3,807354922
LTK	0	0	1	0	0	0
LTN1	8,194756854	8,055282436	8,071462363	8,164906927	8,129283017	8,049848549
LTV1	7,169925001	7,011227255	7,442943496	7,577428828	7,599912842	7,64385619
LUC7L	8,082149041	8,276124405	8,388017285	9,189824559	8,77148947	8,647458426
LUC7L2	7,845490051	8,13442632	8,276124405	8,936637939	8,731319031	8,977279923
LUC7L3	10,94251451	10,80574387	11,11439305	11,3885555	10,97513146	11,34706766
LUM	0	0	0	0	0	2
LURAP1	0	0	0	0	0	0
LURAP1L	0	0	0	0	0	0
LUZP1	7,209453366	6,807354922	7,159871337	7,426264755	7,247927513	7,813781191
LUZP2	2,321928095	1	1,584962501	4,321928095	4,807354922	5,357552005
LUZP4	0	0	0	0	0	0
LUZP6	0	0	0	0	0	0
LXN	3,459431619	4,169925001	4,459431619	1	1,584962501	0
LY6D	0	0	0	0	0	0
LY6E	5,64385619	5,044394119	5,700439718	4,321928095	4,459431619	4,95419631
LY6G5B	0	0	0	0	0	0
LY6G5C	0	2,321928095	1,584962501	2,321928095	2,321928095	2
LY6G6C	0	0	0	0	0	0
LY6G6D	0	0	0	0	0	0
LY6G6E	0	0	0	0	0	0
LY6G6F	0	0	0	0	0	0
LY6H	0	0	0	0	0	0
LY6K	0	0	0	0	0	0
LY75	7,442943496	7,562242424	7,636624621	7,64385619	7,139551352	6,491853096
LY75-CD302	0	0	0	0	0	0
LY86	5,672425342	6,169925001	5,672425342	5,882643049	3	3,807354922
LY86-AS1	0	0	2	2,807354922	3,700439718	5,169925001
LY9	6,475733431	6,357552005	6,189824559	6,768184325	7,159871337	6,321928095
LY96	6,672425342	6,857980995	6,569855608	5	5,285402219	5,169925001
LYAR	8,194756854	8,118941073	8,033423002	8,741466986	8,707359132	8,77807713
LYG1	2,321928095	0	0	0	1,584962501	2
LYG2	0	0	0	4,087462841	1,584962501	4,64385619
LYL1	5,044394119	4,700439718	4,584962501	4,087462841	3,321928095	3,169925001
LYN	10,02652344	10,11634396	10,10721708	8,199672345	8,515699838	8,366322214
LYNX1	0	0	0	0	0	0
LYPD1	1,584962501	0	1	0	1,584962501	3,169925001
LYPD2	0	0	0	0	0	0
LYPD3	2,584962501	2,807354922	2,584962501	2,807354922	3,321928095	4,321928095
LYPD4	0	0	0	0	0	0
LYPD5	0	0	0	0	0	0
LYPD6	0	0	0	0	0	0
LYPD6B	0	0	0	0	0	3,169925001
LYPLA1	8,366322214	8,396604781	8,169925001	7,672425342	7,942514505	7,741466986
LYPLA2	6,781359714	7,276124405	7,087462841	6,794415866	6,614709844	6,0608919
LYPLAL1	5,882643049	5,977279923	5,584962501	5,129283017	5,169925001	5,169925001
LYRM1	5,247927513	5,357552005	5,247927513	6,845490051	6,409390936	6,882643049
LYRM2	6,965784285	7,076815597	6,672425342	6,845490051	6,50779464	6,882643049
LYRM4	5,285402219	5,426264755	5,554588852	6,62935662	6,614709844	6,700439718
LYRM7	7,73470962	7,584962501	7,665335917	8,071462363	7,942514505	7,942514505
LYSMD1	1,584962501	2,584962501	2,584962501	0	3	0
LYSMD2	8,581200582	8,459431619	8,353146825	8,294620749	8,299208018	8,049848549
LYSMD3	7,169925001	7,033423002	6,87036472	7,247927513	7,312882955	7,209453366
LYSMD4	2,807354922	2,321928095	1,584962501	0	0	2
LYST	9,430452552	9,487840034	9,649256178	10,11113567	10,08480839	9,862637358

LYVE1	0	0	0	0	0	0
LYZ	13,11715606	13,11715606	13,11715606	7,022367813	7,658211483	7,129283017
LYZL1	0	0	0	0	0	0
LYZL2	0	0	0	0	0	0
LYZL4	0	0	0	0	0	0
LYZL6	0	0	0	0	0	0
LZIC	7,076815597	6,741466986	6,569855608	6,977279923	6,741466986	5,95419631
LZTFL1	5,614709844	5,459431619	5,426264755	5,832890014	5,977279923	5,554588852
LZTR1	4,754887502	4,523561956	4,700439718	5,523561956	4,95419631	4,321928095
LZTS1	2,807354922	2,321928095	0	0	3,321928095	0
LZTS2	4,95419631	5,857980995	5,95419631	5,882643049	5,977279923	5,169925001
M6PR	7,531381461	7,459431619	7,54689446	6,62935662	6,807354922	7,129283017
MAB21L1	0	0	0	0	0	0
MAB21L2	0	0	0	0	0	0
MAB21L3	0	0	0	0	1,584962501	0
MACC1	2,807354922	1	2,584962501	3,321928095	4,247927513	4,64385619
MACF1	9,59058705	9,670656249	9,688250309	9,224001674	9,108524457	9,247927513
MACROD1	0	0	1,584962501	1	0	0
MACROD2	3,459431619	3,584962501	3,169925001	5,614709844	5,64385619	6,491853096
MACROD2-AS1	0	0	0	0	0	0
MAD1L1	5	4,754887502	4,087462841	4,700439718	4,247927513	4,95419631
MAD2L1	5,523561956	5,614709844	5,357552005	6,459431619	6,087462841	6,820178962
MAD2L1BP	5,491853096	5,044394119	5,129283017	5,832890014	5,977279923	6,06608919
MAD2L2	5,357552005	5,672425342	5,857980995	3,321928095	4,807354922	0
MADCAM1	0	0	0	1	0	0
MADD	6,06608919	5,781359714	6,108524457	6,375039431	6,129283017	6,321928095
MAEA	7,62935662	7,651051691	7,894817763	8,276124405	8,174925683	8,174925683
MAEL	1,584962501	1,584962501	0	4,087462841	4	4,321928095
MAF	9,019590728	8,797661526	8,882643049	8,022367813	8,209453366	7,918863237
MAF1	5,807354922	5,459431619	6	6,129283017	6,584962501	5,832890014
MAFA	0	0	0	1	0	3,807354922
MAFB	9,861086906	9,888743249	9,87036472	4,321928095	3,700439718	2
MAFF	6,658211483	6,686500527	6,321928095	5,930737338	5,392317423	6,321928095
MAFG	8,761551232	8,942514505	8,951284715	8,897845456	9,038918989	9,116343961
MAFK	5,209453366	5,247927513	5,426264755	5,882643049	6,044394119	6,06608919
MAG	0	0	0	0	0	0
MAGEA1	0	0	0	0	0	0
MAGEA10	1	1,584962501	0	2,807354922	1,584962501	2
MAGEA11	0	0	0	0	0	0
MAGEA12	0	0	0	0	0	0
MAGEA2	0	0	0	0	0	0
MAGEA2B	0	0	0	0	0	0
MAGEA3	0	0	0	0	0	0
MAGEA4	0	0	0	0	0	0
MAGEA5	0	0	0	0	0	0
MAGEA6	0	0	0	0	0	0
MAGEA8	0	0	0	0	0	0
MAGEA9	0	0	0	0	0	0
MAGEA9B	0	0	0	1	0	0
MAGEB1	0	0	0	0	0	0
MAGEB10	0	0	0	1	0	0
MAGEB16	0	0	1	0	0	0
MAGEB18	0	1	0	1	0	0
MAGEB2	0	0	0	0	0	0
MAGEB3	0	0	1	1	0	3,169925001
MAGEB4	0	0	0	0	0	0
MAGEB6	0	0	0	0	0	0
MAGEC1	0	0	0	0	0	0

MAGEC2	0	0	0	0	0	0
MAGEC3	0	0	0	0	0	0
MAGED1	6	5,857980995	4,700439718	6,658211483	6,741466986	6,321928095
MAGED2	6,087462841	6	5,807354922	5	6,129283017	5,554588852
MAGED4	0	0	0	0	0	0
MAGED4B	0	0	0	0	0	0
MAGEE1	4,754887502	4,523561956	4,392317423	5,832890014	5,392317423	5,554588852
MAGEE2	0	0	0	0	0	0
MAGEF1	5,930737338	5,727920455	5,321928095	7,392317423	6,942514505	7,276124405
MAGEH1	6,189824559	6,169925001	5,491853096	7	6,539158811	6,491853096
MAGEL2	0	0	0	0	0	0
MAGI1	3,700439718	3,169925001	3,584962501	6,50779464	5,857980995	6,569855608
MAGI2	2,807354922	3,321928095	3,321928095	5,129283017	4,64385619	5,832890014
MAGI2-AS3	1,584962501	2,321928095	2,807354922	3,321928095	3	3,169925001
MAGI3	4,64385619	3,906890596	4,523561956	2,321928095	2,321928095	5,169925001
MAGIX	1,584962501	1	1,584962501	0	2,321928095	0
MAGOH	8,124121312	8,361943774	8,584962501	8,832890014	9,098032083	9,057991723
MAGOHb	5,392317423	4,906890596	5,357552005	6	5,64385619	5,554588852
MAGT1	7,888743249	7,6794801	7,592457037	7,22881869	7,400879436	6,965784285
MAK	0	0	1,584962501	1	2,321928095	3,169925001
MAK16	5,930737338	6,044394119	6,459431619	7,426264755	7	7,169925001
MAL	6,409390936	6,285402219	6,523561956	7,442943496	7,17990909	6,930737338
MAL2	0	0	0	0	0	0
MALAT1	15,09527339	15,09527339	15,09527339	15,09527339	15,09527339	15,09527339
MALL	0	0	0	0	0	0
MALSU1	6,700439718	6,285402219	6,584962501	6,459431619	6,658211483	6,247927513
MALT1	8,13442632	8,108524457	8,21916852	8,022367813	7,942514505	7,994353437
MAMDC2	0	0	0	0	0	0
MAMDC4	2,807354922	0	1	0	0	0
MAML1	7,693486957	7,62935662	7,366322214	7,994353437	8,011227255	7,622051819
MAML2	7,693486957	7,672425342	7,864186145	8,184875343	7,888743249	8,379378367
MAML3	5,044394119	4,392317423	4,087462841	3,807354922	4,95419631	4,95419631
MAMLD1	2,321928095	0	2	3,321928095	1,584962501	0
MAMSTR	0	0	0	0	1,584962501	0
MAN1A1	7,475733431	7,199672345	6,768184325	6,50779464	6,807354922	5,700439718
MAN1A2	10,53430288	10,46964182	10,49785184	11,23421868	11,26912668	11,28019079
MAN1B1	5,584962501	5,727920455	6,409390936	6,189824559	6,044394119	5,169925001
MAN1C1	6,285402219	6,303780748	5,930737338	7,055282436	6,942514505	5,95419631
MAN2A1	9,044394119	9,060695932	9,252665432	9,124121312	9,154818109	9,071462363
MAN2A2	6,426264755	6,614709844	6,820178962	6,584962501	6,459431619	6,491853096
MAN2B1	3,321928095	3,169925001	2,807354922	0	2,321928095	2
MAN2B2	7,276124405	7,247927513	7,098032083	6,700439718	6,614709844	5,95419631
MAN2C1	4,95419631	4,857980995	4,64385619	5	4,459431619	5,169925001
MANBA	8,194756854	8,257387843	8,388017285	7,982993575	7,912889336	8,558420713
MANBAL	4,906890596	4,700439718	3,700439718	4,321928095	3,321928095	0
MANEA	5,95419631	6,044394119	6,169925001	4,087462841	5,285402219	4,95419631
MANEAL	2,321928095	0	0	1	0	0
MANF	7,169925001	7,199672345	6,87036472	6,189824559	6,942514505	6,06608919
MANSC1	0	0	0	2,807354922	0	0
MANSC4	0	0	0	0	0	0
MAOA	0	1,584962501	1	0	0	0
MAOB	0	0	0	0	1,584962501	0
MAP1A	2,807354922	3	2,807354922	0	3	3,169925001
MAP1B	0	0	0	1	1,584962501	4,64385619
MAP1LC3A	0	1	1	0	0	2
MAP1LC3B	8,797661526	8,622051819	8,511752654	8,459431619	8,731319031	8,515699838
MAP1LC3B2	3,321928095	2,584962501	0	3,321928095	3	3,169925001
MAP1LC3C	0	0	0	0	0	0

MAP1S	3,584962501	3,807354922	3,906890596	2,321928095	0	0
MAP2	1,584962501	0	2,807354922	3,321928095	0	3,169925001
MAP2K1	7,988684687	7,787902559	7,882643049	7,693486957	7,924812504	7,011227255
MAP2K2	6,321928095	6,807354922	7,033423002	6,768184325	6,189824559	4,64385619
MAP2K3	8,451211112	8,661778098	8,487840034	8,599912842	8,836050355	8,434628228
MAP2K4	6,741466986	6,614709844	6,614709844	7	6,965784285	7,209453366
MAP2K5	5,357552005	5,807354922	5,169925001	6,06608919	6,129283017	5,95419631
MAP2K6	6,266786541	6,266786541	6,169925001	5,754887502	5,781359714	5,700439718
MAP2K7	6,189824559	6,845490051	7,257387843	6,820178962	7,285402219	6,62935662
MAP3K1	9,312882955	9,276124405	9,319672121	9,636624621	9,594324604	9,487840034
MAP3K10	3,459431619	3,807354922	3,584962501	0	3,321928095	0
MAP3K11	5,700439718	5,614709844	5,523561956	4,700439718	5,169925001	5,357552005
MAP3K12	4,754887502	5,129283017	4,64385619	5,357552005	5,64385619	5,832890014
MAP3K13	6,87036472	6,894817763	6,857980995	6,375039431	6,087462841	6,247927513
MAP3K14	5,285402219	4,700439718	5,392317423	4,321928095	5,977279923	4,64385619
MAP3K15	0	0	0	0	2,321928095	2
MAP3K2	9,417852515	9,233619677	9,269126679	8,696967526	8,761551232	8,768184325
MAP3K3	7,6794801	7,982993575	8,092757141	7,209453366	7,434628228	6,754887502
MAP3K4	6,22881869	6,22881869	6,375039431	7,321928095	7,108524457	7,276124405
MAP3K5	7,820178962	7,665335917	7,577428828	7,930737338	7,62935662	7,977279923
MAP3K6	1,584962501	2,807354922	2	1	2,321928095	0
MAP3K7	8,17990909	8,17990909	7,965784285	8,451211112	8,592457037	8,413627929
MAP3K8	7,238404739	6,965784285	7,087462841	6,189824559	6,539158811	6,700439718
MAP3K9	1,584962501	0	1,584962501	1	3	3,169925001
MAP4	7,266786541	7,539158811	7,714245518	8,011227255	7,50779464	7,442943496
MAP4K1	4,64385619	5,129283017	4,523561956	6,06608919	6,285402219	5,554588852
MAP4K2	6,087462841	6,22881869	6,06608919	7	6,857980995	7,129283017
MAP4K3	5,807354922	5,727920455	5,857980995	4,087462841	5,169925001	3,807354922
MAP4K4	8,438791853	8,45532722	8,665335917	9,049848549	9,14974712	9,154818109
MAP4K5	6,988684687	6,658211483	7,011227255	7,339850003	7,17990909	7,592457037
MAP6	0	0	0	0	0	0
MAP6D1	0	0	0	0	0	0
MAP7	3,321928095	3,169925001	1,584962501	2,321928095	3,700439718	5,357552005
MAP7D1	7,794415866	7,707359132	7,768184325	6,977279923	7,087462841	6,820178962
MAP7D2	1	0	0	4,700439718	5,554588852	5,357552005
MAP7D3	7,06608919	6,977279923	6,832890014	6,266786541	6,942514505	6,569855608
MAP9	5,392317423	5,64385619	5,169925001	6,658211483	6,741466986	6,820178962
MAPK1	9,64385619	9,544964433	9,642051693	9,095397023	9,14974712	8,592457037
MAPK10	3	4,321928095	3,321928095	5,882643049	6,087462841	6,930737338
MAPK11	0	0	0	0	0	0
MAPK12	0	0	0	0	0	0
MAPK13	6,022367813	5,930737338	5,754887502	6,129283017	5,857980995	5,700439718
MAPK14	7,95419631	7,918863237	8,335390355	8,022367813	7,62935662	7,894817763
MAPK15	0	0	0	0	0	0
MAPK1IP1L	9,194756854	9,11113567	9,071462363	9,025139562	9,167418146	9,019590728
MAPK3	4,754887502	5,392317423	5,129283017	5,129283017	4,64385619	2
MAPK4	0	0	0	1	2,321928095	0
MAPK6	7,330916878	6,918863237	7,199672345	6,189824559	6,459431619	7,011227255
MAPK7	3,700439718	4,087462841	2,807354922	0	0	0
MAPK8	6,266786541	6,108524457	5,930737338	5,129283017	4,95419631	5,357552005
MAPK8IP1	0	0	0	0	0	0
MAPK8IP2	0	0	0	3,807354922	0	0
MAPK8IP3	5,491853096	5,614709844	5,95419631	6,50779464	6,044394119	6,321928095
MAPK9	6,794415866	7,400879436	7,14974712	7,022367813	6,918863237	6,754887502
MAPKAP1	6,977279923	7,339850003	6,781359714	6,930737338	6,918863237	7,375039431
MAPKAPK2	8,426264755	8,727920455	8,550746785	8,857980995	8,924812504	8,87958325
MAPKAPK3	6,087462841	6,044394119	5,882643049	2,807354922	3	2
MAPKAPK5	7,768184325	7,651051691	7,383704292	8,011227255	7,781359714	7,977279923

MAPKBP1	5,044394119	5,392317423	5,357552005	5,129283017	5,64385619	5,357552005
MAPRE1	7,754887502	7,930737338	7,475733431	7,209453366	7,285402219	7,539158811
MAPRE2	7,523561956	7,592457037	7,523561956	7,754887502	8,044394119	7,622051819
MAPRE3	2,807354922	2,321928095	3	0	0	0
MAPT	2,807354922	2,321928095	3	3,321928095	4	2
MAPT-AS1	0	0	0	1	0	3,169925001
01-mar	2,807354922	3,584962501	3	0	0	0
02-mar	1,584962501	0	1,584962501	0	1,584962501	0
01-mar	9,105908509	9	9,005624549	6,700439718	6,965784285	6,820178962
10-mar	1	0	1,584962501	2,321928095	2,321928095	4,321928095
11-mar	0	0	0	0	0	0
02-mar	4,392317423	4,700439718	4,64385619	3,321928095	1,584962501	2
03-mar	4,321928095	3,906890596	4,459431619	5,882643049	5,554588852	6,321928095
04-mar	0	0	0	0	0	0
05-mar	6,988684687	6,754887502	6,930737338	7,022367813	7,22881869	6,491853096
06-mar	8,864186145	8,832890014	8,882643049	9,567956075	9,35974956	9,539158811
07-mar	9,257387843	9,226412193	9,204571144	9,164906927	9,259743264	9,269126679
08-mar	7,839203788	8,092757141	8,092757141	8,139551352	8,299208018	8,159871337
09-mar	6,303780748	6,714245518	6,781359714	7,599912842	7,539158811	7,409390936
MARCKS	10,64835758	10,71080643	10,61194694	8,214319121	8,558420713	8,21916852
MARCKSL1	7,357552005	7,569855608	6,820178962	6,50779464	6,189824559	5,95419631
MARCO	0	0	0	0	0	0
MARK1	0	0	1	0	2,321928095	0
MARK2	6,409390936	6,475733431	6,965784285	6,50779464	7,087462841	6,965784285
MARK2P9	0	0	0	0	0	0
MARK3	8,290018847	8,055282436	8,011227255	8,103287808	7,948367232	8,238404739
MARK4	4,247927513	4,321928095	3,321928095	3,807354922	2,321928095	3,169925001
MARS	7,491853096	7,577428828	7,700439718	7,942514505	7,73470962	7,918863237
MARS2	5,426264755	5,781359714	4,906890596	5,700439718	5,285402219	5,554588852
MARVELD1	4,321928095	5	5,459431619	0	0	0
MARVELD2	1	2,584962501	2	4,087462841	4,459431619	5,832890014
MARVELD3	0	2,321928095	0	0	3,700439718	5,357552005
MAS1	0	0	0	0	0	0
MAS1L	0	0	0	0	0	0
MASP1	0	0	0	0	0	2
MASP2	0	1	0	0	0	2
MAST1	0	0	0	0	0	0
MAST2	3,584962501	2,321928095	3,906890596	3,321928095	3,321928095	0
MAST3	4,64385619	3,906890596	4,523561956	3,807354922	3,321928095	3,807354922
MAST4	6,22881869	6,14974712	6,475733431	7,614709844	7,22881869	7,169925001
MASTL	5,357552005	5,426264755	4,906890596	5,614709844	6,189824559	6,06608919
MAT1A	0	0	0	0	0	0
MAT2A	4,754887502	5,554588852	4,95419631	3,807354922	4,247927513	3,807354922
MAT2B	9,294620749	9,457380879	9,312882955	9,154818109	9,407267764	8,927777962
MATK	3,906890596	4,392317423	4,584962501	4,523561956	4,807354922	4,95419631
MATN1	0	0	0	4,700439718	2,321928095	3,169925001
MATN2	1,584962501	1	1	2,807354922	0	4,64385619
MATN3	0	0	0	0	0	0
MATN4	0	0	0	0	0	0
MATR3	2,807354922	3	3,321928095	2,584962501	2,321928095	3,459431619
MAU2	7,348728154	6,977279923	6,942514505	8,266786541	8,174925683	7,894817763
MAV5	7,139551352	7,592457037	7,247927513	7,339850003	7,209453366	7,375039431
MAX	9,250298418	9,465566405	9,095397023	9,54303182	9,620219826	9,495855027
MAZ	6,459431619	6,857980995	6,906890596	6,741466986	7,17990909	6,491853096
MB	0	0	0	0	0	0
MB21D2	6	5,614709844	5,700439718	3,321928095	4	3,807354922
MBD1	7,108524457	6,845490051	7,098032083	7,14974712	7,672425342	7,169925001
MBD2	9,139551352	9,076815597	9,154818109	8,348728154	8,463524373	8,033423002

MBD3	4,700439718	4,523561956	5,169925001	6,658211483	6,375039431	6,62935662
MBD3L1	0	0	1	3,321928095	0	2
MBD3L2	0	0	0	0	0	0
MBD3L3	0	0	0	0	0	0
MBD3L4	0	0	0	0	0	0
MBD3L5	0	0	0	0	0	0
MBD4	8,851749041	8,744833837	8,86727874	8,724513853	8,807354922	8,531381461
MBD5	7,285402219	7,483815777	7,930737338	8,139551352	7,965784285	8,636624621
MBD6	6,459431619	6,266786541	6,658211483	5,832890014	5,64385619	4,95419631
MBIP	5,614709844	5,087462841	5,129283017	5,754887502	5,857980995	6,247927513
MBL1P	0	0	0	0	0	0
MBL2	0	0	0	0	0	0
MBLAC1	1	1,584962501	1,584962501	0	0	0
MBLAC2	5,807354922	5,247927513	5,781359714	6,375039431	6,614709844	6,409390936
MBNL1	11,18177344	11,05596023	11,15165083	10,85486838	10,82336724	10,68650053
MBNL2	6,845490051	6,50779464	6,426264755	6,906890596	6,942514505	7,055282436
MBNL3	7,614709844	7,73470962	7,658211483	7,971543554	8,159871337	7,87036472
MBOAT1	2,321928095	2,584962501	1,584962501	1	2,321928095	0
MBOAT2	3,807354922	3,807354922	4,523561956	3,807354922	2,321928095	0
MBOAT4	0	0	0	0	0	0
MBOAT7	7,17990909	7,392317423	7,276124405	6,321928095	6,247927513	5,700439718
MBP	10,15860969	10,21310422	10,14720492	10,99576715	10,87958325	10,92407019
MBTD1	6,754887502	6,266786541	6,375039431	7,247927513	6,584962501	7,098032083
MBTPS1	7,199672345	7,276124405	7,330916878	7,64385619	7,584962501	7,942514505
MBTPS2	4,754887502	4,584962501	4,392317423	3,807354922	4,459431619	3,807354922
MC1R	0	0	1,584962501	3,321928095	0	2
MC2R	0	0	0	0	1,584962501	0
MC3R	0	0	0	0	0	0
MC4R	0	0	0	0	0	0
MC5R	0	0	0	1	0	0
MCAM	0	2,584962501	1	0	3,321928095	0
MCAT	2,584962501	1	2,584962501	1	0	0
MCC	2,584962501	2,321928095	2,584962501	1	0	3,169925001
MCCC1	5,64385619	5,169925001	5,459431619	5,832890014	6,044394119	5,832890014
MCCC2	6,247927513	6,06608919	6,285402219	6,658211483	6,658211483	7,169925001
MCCD1	0	0	0	0	0	0
MCEE	4,169925001	4,906890596	4,584962501	4,321928095	4,459431619	5,357552005
MCF2	2,807354922	3,807354922	2,807354922	5,614709844	4,95419631	5,357552005
MCF2L	2,321928095	3	3,321928095	3,321928095	3,700439718	2
MCF2L-AS1	1	0	1	1	0	0
MCF2L2	3	3,906890596	3,169925001	4,321928095	4,64385619	5,95419631
MCFD2	7,87036472	7,62935662	7,348728154	7,918863237	7,851749041	8,087462841
MCHR1	0	0	0	0	0	0
MCHR2	0	0	0	0	0	0
MCL1	10,51569984	10,47370575	10,41151099	10,07815081	10,17617315	10,09803208
MCM10	2,321928095	1	0	6,129283017	6,044394119	7,098032083
MCM2	5,169925001	4,64385619	5	4,700439718	5,087462841	3,169925001
MCM3	7,098032083	6,977279923	6,392317423	7,266786541	7,554588852	6,930737338
MCM3AP	7,209453366	7,21916852	7,055282436	7,339850003	7,159871337	6,882643049
MCM3AP-AS1	3,321928095	2,584962501	3,321928095	3,321928095	1,584962501	0
MCM4	5,285402219	5,321928095	5,044394119	4,700439718	4,247927513	2
MCM5	5,285402219	5,459431619	5,672425342	5,459431619	3,700439718	4,321928095
MCM6	6,339850003	6,409390936	6,523561956	6,50779464	6,857980995	5,700439718
MCM7	6,189824559	5,807354922	5,584962501	6,700439718	6,50779464	6,409390936
MCM8	5,727920455	5,554588852	5,459431619	6,22881869	6,375039431	6,754887502
MCM9	5,523561956	5,169925001	5,426264755	6,189824559	5,169925001	6,321928095
MCMBP	7,451211112	7,614709844	7,523561956	7,727920455	7,64385619	7,761551232
MCOLN1	4,321928095	5,357552005	5,882643049	2,807354922	3,700439718	0

MCOLN2	5,906890596	5,321928095	5,614709844	6,129283017	6,375039431	4,64385619
MCOLN3	2,584962501	1,584962501	2	2,321928095	2,321928095	4,64385619
MCPH1	6,375039431	6,375039431	6,321928095	7,129283017	6,857980995	7,515699838
MCRS1	3,906890596	4,459431619	5	0	3	0
MCTP1	7,209453366	7,276124405	7,539158811	6,22881869	6,189824559	7,276124405
MCTP2	6,686500527	6,62935662	7,366322214	7,781359714	7,584962501	7,894817763
MCTS1	6,672425342	7,14974712	7,159871337	7,741466986	7,584962501	7,515699838
MCU	5,321928095	5,285402219	5,209453366	3,807354922	3,700439718	3,807354922
MDC1	5,930737338	6,087462841	6,426264755	6,658211483	6,741466986	6,247927513
MDFI	0	0	0	0	0	0
MDFIC	8,980139578	8,826548487	8,903881846	8,77148947	8,82336724	8,603626345
MDGA1	3,459431619	4,169925001	4,087462841	4,321928095	3,321928095	5,357552005
MDGA2	2,321928095	2,807354922	1	4,087462841	3,321928095	5,169925001
MDH1	8,392317423	8,417852515	8,592457037	8,459431619	8,252665432	8,503825738
MDH1B	1	0	0	0	0	0
MDH2	7,74819285	7,686500527	7,965784285	7,658211483	7,832890014	7,672425342
MDK	0	1,584962501	0	0	0	3,169925001
MDM1	6,539158811	6,599912842	6,266786541	6,700439718	6,539158811	6,321928095
MDM2	8,523561956	8,689997971	8,707359132	8,214319121	8,285402219	8,238404739
MDM4	9,139551352	9,108524457	9,209453366	9,257387843	9,098032083	9,189824559
MDN1	8,098032083	7,768184325	7,930737338	8,503825738	8,392317423	8,348728154
MDP1	0	0	0	0	0	0
MDS2	1,584962501	1	1,584962501	2,321928095	0	0
ME1	7,238404739	7,348728154	7,577428828	2,321928095	1,584962501	0
ME2	7,857980995	8,092757141	8,375039431	8,413627929	8,252665432	8,447083226
ME3	0	2,321928095	0	1	3,321928095	0
MEA1	5,584962501	5,807354922	5,857980995	5,357552005	5,781359714	4,95419631
MEAF6	8,129283017	8,13442632	7,936637939	8,285402219	7,807354922	7,942514505
MECOM	2,321928095	0	2,584962501	1	3	5,169925001
MECP2	8,405141463	8,247927513	8,54689446	9,124121312	9,14974712	9,299208018
MECR	1,584962501	0	2,807354922	2,807354922	0	0
MED1	9,50779464	9,681238412	9,426264755	9,567956075	9,614709844	9,652844973
MED10	8,330916878	8,194756854	8,22881869	8,348728154	8,321928095	8,665335917
MED11	4,857980995	4,906890596	4,95419631	4,321928095	3,700439718	0
MED12	4,857980995	5	5,392317423	5	5,087462841	3,807354922
MED12L	1,584962501	0	0	2,321928095	0	3,807354922
MED13	8,876516947	8,592457037	8,813781191	9,049848549	8,888743249	9,28077077
MED13L	9,469641817	9,35974956	9,62935662	9,350939182	9,245552706	9,231221181
MED14	6,87036472	6,857980995	7,118941073	7,375039431	7,087462841	6,62935662
MED15	6,584962501	6,321928095	6,87036472	6,95419631	7,06608919	7,011227255
MED16	3	3,321928095	4	3,321928095	3	0
MED17	6,22881869	6,584962501	6,523561956	7,055282436	7,159871337	7,348728154
MED18	5,584962501	5,857980995	5,700439718	6,845490051	6,539158811	6,965784285
MED19	5,64385619	5,672425342	5,906890596	5,614709844	4,459431619	5,357552005
MED20	3,906890596	4,321928095	3,584962501	2,321928095	3,700439718	2
MED21	5	5,169925001	4,95419631	3,321928095	4,64385619	3,169925001
MED22	4,64385619	4,523561956	4,459431619	3,807354922	3,321928095	2
MED23	6,554588852	6,409390936	6,781359714	7,022367813	7,312882955	6,820178962
MED24	6,189824559	6,392317423	6,781359714	7,055282436	7,044394119	6,700439718
MED25	5,285402219	5,584962501	6	5,930737338	5,977279923	3,807354922
MED26	5,392317423	5,64385619	5,459431619	6,459431619	6,321928095	7,409390936
MED27	5,807354922	6,807354922	6,882643049	7,409390936	7,22881869	7,672425342
MED28	8,262094845	8,060695932	8,022367813	8,396604781	8,654636029	8,491853096
MED29	6,768184325	6,189824559	6,50779464	6,977279923	6,832890014	7,011227255
MED30	6,599912842	6,339850003	6,426264755	6,741466986	7,108524457	6,754887502
MED31	6,491853096	6,189824559	6,459431619	6,845490051	6,741466986	6,569855608
MED4	8,686500527	8,622051819	8,447083226	9,033423002	9	8,686500527
MED6	6,845490051	7,209453366	6,942514505	7,266786541	7,451211112	7,375039431

MED7	5,95419631	5,857980995	5,129283017	6	5,977279923	6,321928095
MED8	6,599912842	6,285402219	6,491853096	4,523561956	5,554588852	3,807354922
MED9	4,700439718	4,087462841	4,584962501	5	4,95419631	4,64385619
MEF2A	8,77807713	8,361943774	8,592457037	7,894817763	7,672425342	7,741466986
MEF2B	0	0	0	0	0	0
MEF2C	7,8008999	7,686500527	7,876516947	7,942514505	8,071462363	8,290018847
MEF2D	7,442943496	7,312882955	7,475733431	8,184875343	8,033423002	8,400879436
MEFV	3,700439718	3,906890596	3,321928095	2,807354922	0	4,321928095
MEG3	2,321928095	1	3,169925001	4,700439718	3,700439718	5,169925001
MEG8	2,807354922	3,169925001	2	2,807354922	4,459431619	5,357552005
MEGF10	0	0	0	1	0	0
MEGF11	1,584962501	0	0	0	0	0
MEGF6	1	0	3,169925001	1	1,584962501	0
MEGF8	3,459431619	3,169925001	2,584962501	4,700439718	5,459431619	4,95419631
MEGF9	7,888743249	7,8008999	8,022367813	6,700439718	6,832890014	6,247927513
MEI1	6,303780748	6,62935662	6,614709844	7,247927513	7,044394119	5,95419631
MEIG1	1,584962501	0	0	2,321928095	2,321928095	0
MEIS1	2,321928095	0	1	2,321928095	1,584962501	3,169925001
MEIS2	1,584962501	2,807354922	0	3,807354922	2,321928095	3,807354922
MEIS3	0	0	0	0	0	0
MEIS3P1	0	0	0	0	0	0
MELK	1	0	0	0	0	0
MEMO1	4,754887502	4,459431619	4,754887502	5,832890014	4,807354922	6,169925001
MEN1	6,14974712	6,459431619	6,672425342	7,055282436	7	6,820178962
MEOX1	2,584962501	2,321928095	2	0	0	0
MEOX2	0	0	0	0	0	0
MEP1A	1	1	0	0	2,321928095	3,169925001
MEP1B	0	0	0	1	0	0
MEPCE	6,64385619	6,754887502	6,523561956	6	6,741466986	5,700439718
MEPE	0	0	0	0	0	0
MERTK	3	3,321928095	3,584962501	0	1,584962501	0
MESP1	0	1	0	0	0	0
MESP2	0	0	0	0	0	0
MEST	0	1	0	0	3	2
MET	1,584962501	2,584962501	1,584962501	2,321928095	3,700439718	0
METAP1	8,144658243	8,438791853	8,396604781	7,918863237	8,21916852	7,515699838
METAP1D	0	1,584962501	0	1	3	0
METAP2	9,326429487	9,339850003	9,430452552	9,8008999	9,812177306	9,911391988
METRN	1,584962501	1	2,807354922	1	0	0
METRNL	7,076815597	6,832890014	7,076815597	6,768184325	6,942514505	6,820178962
METTL1	2,807354922	4	4	0	4	0
METTL11B	0	0	0	0	0	0
METTL13	5,700439718	6,06608919	5,247927513	6	5,930737338	4,64385619
METTL14	7,707359132	7,348728154	7,426264755	7,794415866	7,62935662	7,46760555
METTL15	5,614709844	5,554588852	5,614709844	6	5,930737338	5,700439718
METTL16	6,266786541	6,22881869	6,321928095	6,930737338	6,882643049	6,700439718
METTL17	7,54689446	7,820178962	7,948367232	8,199672345	8,044394119	7,761551232
METTL18	4,754887502	5,044394119	4,523561956	5,247927513	5,392317423	5,95419631
METTL21A	6,599912842	6,475733431	5,882643049	5,754887502	5,857980995	5,169925001
METTL21C	0	0	0	0	0	0
METTL22	4,247927513	3,700439718	4,169925001	2,321928095	4	0
METTL23	6,64385619	6,741466986	6,426264755	7,169925001	7,285402219	7,098032083
METTL24	0	0	0	1	0	0
METTL2A	4,392317423	4,523561956	3,700439718	4,857980995	4,459431619	2
METTL2B	5,392317423	5,321928095	5,247927513	5,357552005	5,392317423	5,700439718
METTL3	6,375039431	6	6	6,741466986	6,459431619	6,820178962
METTL4	5,700439718	5,807354922	6,189824559	6,22881869	6,189824559	6,569855608
METTL5	6,375039431	6,62935662	6,807354922	7,189824559	7,044394119	7,741466986

METTL6	4,700439718	4,392317423	4,906890596	6,129283017	6,321928095	6,754887502
METTL7A	7,761551232	7,813781191	7,434628228	6,820178962	6,965784285	5,95419631
METTL7B	0	0	0	0	0	0
METTL8	6,044394119	6,044394119	5,554588852	6,95419631	6,189824559	6,882643049
METTL9	8,515699838	8,599912842	8,569855608	8,396604781	8,515699838	8,54303182
MEX3A	1	1,584962501	2,807354922	2,321928095	1,584962501	4,321928095
MEX3B	2,807354922	3,169925001	3,321928095	1	0	0
MEX3C	8,396604781	8,475733431	8,45532722	8,731319031	8,957102042	8,87036472
MEX3D	6,044394119	6,303780748	6,06608919	5,523561956	5,64385619	4,95419631
MFAP1	7,714245518	7,74819285	7,636624621	8,13442632	8,321928095	7,965784285
MFAP2	0	0	0	0	0	0
MFAP3	6,375039431	6,22881869	5,426264755	6,768184325	6,409390936	7,129283017
MFAP3L	1,584962501	2,321928095	1	2,321928095	3	3,807354922
MFAP4	0	0	0	0	0	0
MFAP5	3	0	2,807354922	3,321928095	3,321928095	5,357552005
MFF	7,918863237	7,971543554	7,74819285	7,839203788	7,73470962	8,033423002
MFG8	2,807354922	3	4,392317423	4,087462841	1,584962501	3,169925001
MFHAS1	7,851749041	8,011227255	8,011227255	8,413627929	8,471675214	8,491853096
MFN1	7,73470962	7,693486957	7,768184325	7,741466986	7,383704292	7,672425342
MFN2	7,348728154	7,409390936	7,54689446	7,098032083	7,139551352	7,169925001
MFNG	6,845490051	7,022367813	7,022367813	7,592457037	7,383704292	6,882643049
MFRP	0	0	0	0	0	0
MFSD1	9,381542951	9,269126679	9,100662339	6,409390936	6,375039431	6,169925001
MFSD10	6,303780748	6,129283017	6,459431619	5	5,392317423	4,64385619
MFSD11	6,409390936	6,044394119	5,95419631	7,055282436	6,409390936	6,930737338
MFSD12	6,807354922	7,033423002	7,285402219	5,882643049	6,044394119	5,169925001
MFSD2A	4,392317423	4,392317423	4,754887502	0	1,584962501	0
MFSD2B	0	1	0	0	0	3,169925001
MFSD3	2,584962501	1,584962501	1,584962501	2,321928095	0	0
MFSD5	5,977279923	6,375039431	6,569855608	6,189824559	5,977279923	6,06608919
MFSD6	7	6,768184325	6,857980995	6,375039431	6,768184325	6,247927513
MFSD6L	0	0	0	0	0	0
MFSD8	6,781359714	6,375039431	6,599912842	7,129283017	7,451211112	7,375039431
MFSD9	4,169925001	4,459431619	2,807354922	2,321928095	2,321928095	0
MGA	7,74819285	7,651051691	7,6794801	7,794415866	7,74819285	7,832890014
MGAM	3,807354922	4,392317423	3	4,321928095	3	5,169925001
MGAT1	8,479780264	8,577428828	8,727920455	7,813781191	7,832890014	7,539158811
MGAT2	6,832890014	7,087462841	6,392317423	7,076815597	6,832890014	6,491853096
MGAT3	1	3	3,700439718	5,357552005	4,807354922	6,169925001
MGAT4A	8,531381461	8,321928095	8,599912842	9,189824559	9,057991723	9,299208018
MGAT4B	7,965784285	7,960001932	7,77478706	7,876516947	7,781359714	7,46760555
MGAT4C	3,584962501	4,523561956	4,087462841	6	6,857980995	7,312882955
MGAT5	7,098032083	6,845490051	6,87036472	7,960001932	7,794415866	7,832890014
MGAT5B	1	1	1,584962501	5,247927513	5,392317423	5,700439718
MGLL	6,266786541	6,209453366	6,285402219	2,321928095	3,700439718	4,64385619
MGMT	6,108524457	5,857980995	6,247927513	6,06608919	6,247927513	6,06608919
MGP	1,584962501	1	1	6,22881869	4,247927513	6,882643049
MGRN1	6,459431619	6,599912842	7,17990909	6,375039431	6,087462841	6,569855608
MGST1	7,658211483	7,312882955	7,636624621	3,321928095	3,321928095	3,169925001
MGST2	6,459431619	6,539158811	5,754887502	2,807354922	4,247927513	0
MGST3	8,14974712	8,303780748	7,918863237	7,169925001	7,348728154	5,554588852
MIA	0	0	1	0	1,584962501	2
MIA-RAB4B	2,321928095	3,906890596	4,087462841	0	0	0
MIA2	7,076815597	7,14974712	7,303780748	7,554588852	7,554588852	7,787902559
MIA3	8,299208018	8,17990909	8,184875343	8,184875343	8,233619677	7,977279923
MIAT	7,87036472	8,038918989	8,22881869	8,426264755	8,233619677	8,366322214
MIB1	8,707359132	8,622051819	8,588714636	8,531381461	8,447083226	7,942514505
MIB2	4,459431619	4,087462841	4,584962501	4,321928095	5,087462841	2

MICA	3,584962501	3,321928095	3,321928095	3,321928095	2,321928095	0
MICAL1	5,426264755	5	4,754887502	5	5,169925001	5,554588852
MICAL2	5,247927513	5,169925001	4,754887502	5,129283017	5,554588852	5,554588852
MICAL3	2,807354922	3,321928095	4,247927513	4,700439718	4,459431619	3,807354922
MICALL1	5,044394119	4,392317423	4,95419631	4,321928095	4,247927513	2
MICALL2	1,584962501	2,584962501	1,584962501	2,807354922	3,321928095	2
MICB	6,321928095	5,95419631	5,882643049	5,930737338	5,781359714	6,965784285
MICU1	6,64385619	6,50779464	6,727920455	5,357552005	5,857980995	3,807354922
MID1	1	1	0	1	3	3,807354922
MID1IP1	6,129283017	5,882643049	6,22881869	6,554588852	6,189824559	5,95419631
MID2	2,807354922	3	0	2,321928095	2,321928095	2
MIDN	8,903881846	8,921840937	9,076815597	8,224001674	8,299208018	8,413627929
MIEN1	5,247927513	4,906890596	5,044394119	3,321928095	4,807354922	2
MIER1	8,997179481	8,6794801	8,903881846	9,366322214	9,430452552	9,642051693
MIER2	3,321928095	3,321928095	3,584962501	2,321928095	3,321928095	0
MIER3	5,614709844	5,554588852	5,321928095	5,357552005	6,129283017	6,569855608
MIF	5,392317423	4,64385619	3,807354922	5,700439718	5,930737338	3,807354922
MIF4GD	6,569855608	6,22881869	5,930737338	6,189824559	6,584962501	5,832890014
MIP	4,754887502	5,357552005	5,807354922	3,807354922	3,321928095	0
MILR1	4,906890596	4,459431619	3,584962501	0	0	0
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MINK1	4,700439718	4,700439718	5,754887502	5,129283017	4,807354922	4,64385619
MINOS1	6,409390936	6,686500527	6,584962501	6,62935662	7,139551352	7,129283017
MINPP1	5,977279923	5,977279923	5,930737338	4,700439718	5,285402219	4,321928095
MIOS	5,426264755	5,584962501	5,357552005	5	5,087462841	5,169925001
MIOX	0	1	0	0	0	2
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MIPEP	4	4,459431619	4,087462841	4,857980995	2,321928095	3,807354922
MIPOL1	3,700439718	3,169925001	2,584962501	4,523561956	3,700439718	4,64385619
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MIR105-2	0	0	0	0	0	0
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MIR1184-2	0	0	0	0	0	0
MIR1184-3	0	0	0	0	0	0
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MIR1233-2	0	0	0	0	0	0
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MIR124-3	0	0	0	0	0	0
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MIR1260B	0	0	0	0	0	0
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MIR1272	0	0	0	0	0	0
MIR1275	0	0	0	0	0	0
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MIR128-1	0	0	0	0	0	0
MIR128-2	0	0	0	0	0	0
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MIR1283-1	0	0	0	0	0	0
MIR1283-2	0	0	0	0	0	0
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MIR1288	0	0	0	0	0	0
MIR1289-2	0	0	0	0	0	0
MIR129-1	0	0	0	0	0	0
MIR129-2	0	0	0	0	0	0
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MIR1301	0	0	0	0	0	0
MIR1304	0	0	0	0	0	0
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MIR1307	0	0	0	0	0	0
MIR130A	0	0	0	0	0	0
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MIR1343	0	0	0	0	0	0
MIR135A1	0	0	0	0	0	0
MIR135A2	0	0	0	0	0	0
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MIR136	0	0	0	0	0	0
MIR137HG	0	0	1	1	0	0
MIR138-1	0	0	0	0	0	0
MIR138-2	0	0	0	0	0	0
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MIR142	0	0	0	0	0	0
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MIR144	0	0	0	0	0	0
MIR145	0	0	0	0	0	0
MIR1468	0	0	0	0	0	0
MIR1469	0	0	0	0	0	0
MIR146A	0	0	0	0	0	0
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MIR1470	0	0	0	0	0	0
MIR1471	0	0	0	0	0	0
MIR147A	0	0	0	0	0	0
MIR147B	0	0	0	0	0	0
MIR148A	0	0	0	0	0	0
MIR148B	0	0	0	0	0	0
MIR149	0	0	0	0	0	0
MIR150	0	0	0	0	0	0
MIR152	0	0	0	0	0	0
MIR153-1	0	0	0	0	0	0
MIR153-2	0	0	0	0	0	0
MIR1537	0	0	0	0	0	0
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MIR1539	0	0	0	0	0	0
MIR154	0	0	0	0	0	0
MIR155HG	6,189824559	5,857980995	5,754887502	4,857980995	5,857980995	3,807354922
MIR15B	0	0	0	0	1,584962501	0
MIR16-1	0	0	0	0	0	0
MIR16-2	2,321928095	0	0	1	0	0
MIR17HG	1,584962501	2,321928095	1,584962501	2,321928095	3	2
MIR181A1	0	0	0	0	0	0
MIR181A2	0	0	0	0	0	0
MIR181A2HG	1	2,321928095	1,584962501	1	2,321928095	2

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MIR181C	0	0	0	0	0	0
MIR181D	0	0	0	0	0	0
MIR182	0	0	0	0	0	0
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MIR184	0	0	0	0	0	0
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MIR186	4,169925001	2,807354922	3,169925001	2,321928095	0	2
MIR187	0	0	0	0	0	0
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MIR18B	0	0	0	0	0	0
MIR1908	0	0	0	0	0	0
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MIR1972-2	0	0	0	0	0	0
MIR1976	0	0	0	0	0	0
MIR199A1	0	0	0	0	0	0
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MIR199B	0	0	0	0	0	0
MIR19B2	0	0	0	0	0	0
MIR200A	0	0	0	0	0	0
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MIR200C	0	0	0	0	0	0
MIR204	0	0	0	0	0	0
MIR2053	0	0	0	0	0	0
MIR205HG	0	0	0	0	0	0
MIR206	0	0	0	0	0	0
MIR208A	0	0	0	0	0	0
MIR208B	0	0	0	0	0	0
MIR20B	0	0	0	0	0	0
MIR21	0	0	0	0	0	0
MIR210	0	0	0	0	0	0
MIR210HG	5,554588852	5,930737338	5,754887502	4,087462841	5,727920455	0
MIR211	0	0	0	0	0	0
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MIR2113	0	0	0	0	0	0
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MIR212	0	0	0	0	0	0
MIR214	0	0	0	0	0	0
MIR215	0	0	0	0	0	0
MIR216A	0	0	0	0	0	0
MIR216B	0	0	0	0	0	0
MIR217	0	0	0	0	0	0
MIR218-1	0	0	0	0	0	0
MIR218-2	0	0	0	0	0	0
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MIR22HG	7,033423002	6,62935662	6,754887502	6,459431619	6,658211483	6,820178962
MIR2355	0	0	0	0	0	0
MIR2392	0	0	0	0	0	0
MIR23A	0	0	0	0	0	0
MIR23B	0	0	0	0	0	0
MIR23C	0	0	0	0	0	0
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MIR26A1	0	0	0	0	0	0
MIR26A2	0	0	0	0	0	0
MIR26B	0	0	0	0	0	0
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MIR3130-1	0	0	0	0	0	0
MIR3130-2	0	0	0	0	0	0
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MIR3180-3	0	0	0	0	0	0
MIR3180-4	0	0	0	0	0	0
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MIR320D1	1,584962501	2,807354922	3,169925001	4,087462841	0	4,64385619
MIR320D2	0	0	0	0	0	0
MIR320E	0	0	0	0	0	0
MIR323A	0	0	0	0	0	0
MIR323B	0	0	0	0	0	0
MIR324	0	0	0	0	0	0
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MIR7-3HG	0	0	0	0	0	0
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MIR892A	0	0	0	0	0	0
MIR892B	0	0	0	0	0	0
MIR9-1	0	0	0	0	0	0
MIR9-3	0	0	0	0	0	0
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MIR922	0	0	0	0	0	0
MIR92A2	0	0	0	0	0	0
MIR92B	0	0	0	0	0	0
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MIR933	0	0	0	0	0	0
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MIR941-3	0	0	0	0	0	0
MIR942	0	0	0	0	0	0
MIR943	0	0	0	0	0	0
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MIR99B	0	0	0	0	0	0
MIRLET7A1	0	0	0	0	0	0
MIRLET7A2	0	0	0	0	0	0
MIRLET7A3	0	0	0	0	0	0
MIRLET7B	0	0	0	0	0	0
MIRLET7C	0	0	0	0	0	0
MIRLET7D	0	0	0	0	0	0
MIRLET7E	0	0	0	0	0	0
MIRLET7F1	0	0	0	0	0	0
MIRLET7F2	0	0	0	0	0	0
MIRLET7G	0	0	0	0	0	0
MIRLET7I	0	0	0	0	0	0
MIS12	7,108524457	7,199672345	7,076815597	8,022367813	7,864186145	7,813781191
MIS18A	5,832890014	5,554588852	5,584962501	5,882643049	5,64385619	6,491853096
MIS18BP1	8,703903573	8,475733431	8,566054038	8,339850003	8,071462363	8,087462841
MITD1	8,499845887	8,375039431	8,361943774	8,787902559	8,558420713	8,791162889

MITF	8,21916852	8,129283017	8,252665432	5,459431619	6,375039431	6,965784285
MIXL1	0	0	0	1	0	0
MKI67	3,584962501	3,700439718	3,584962501	2,321928095	4	5,169925001
MKKS	5,044394119	5	4,906890596	5,247927513	4,247927513	3,807354922
MKLN1	7,73470962	7,515699838	7,707359132	7,781359714	8,033423002	7,942514505
MKNK1	7,321928095	7,599912842	7,864186145	5,754887502	6,087462841	6,569855608
MKNK2	8,573647187	8,6794801	8,731319031	8,266786541	8,379378367	8,204571144
MKRN1	8,247927513	8,194756854	7,936637939	8,764871591	8,724513853	8,991521846
MKRN2	5,906890596	5,459431619	5,614709844	4,700439718	5,169925001	5,554588852
MKRN3	0	0	0	1	0	0
MKRN7P	0	0	0	0	0	0
MKRN9P	0	0	0	5,129283017	4,459431619	3,807354922
MKS1	3,906890596	4,321928095	3,584962501	5,754887502	4,459431619	5,95419631
MKX	0	0	0	0	0	0
MLANA	0	0	0	0	0	0
MLC1	1,584962501	2,321928095	2,584962501	2,321928095	0	0
MLEC	8,499845887	8,366322214	8,566054038	7,554588852	7,554588852	7,169925001
MLF1	1	1,584962501	0	1	1,584962501	3,169925001
MLF2	5,977279923	6,459431619	6,375039431	5,700439718	5,930737338	6,321928095
MLH1	6,894817763	7,17990909	6,754887502	7,266786541	7,022367813	6,930737338
MLH3	5,807354922	5,832890014	5,554588852	6,266786541	6,375039431	6,247927513
MLIP	0	0	0	0	0	0
MLKL	5,614709844	5,321928095	5,491853096	4,321928095	3,700439718	2
MLLT1	6,375039431	6,409390936	6,285402219	6,50779464	6,768184325	7,098032083
MLLT10	7,794415866	7,636624621	7,906890596	7,714245518	7,707359132	7,515699838
MLLT10P1	0	0	0	0	0	0
MLLT11	3,807354922	3,584962501	4	5	4,64385619	4,95419631
MLLT3	7,139551352	7,312882955	7,569855608	7,491853096	8,071462363	7,813781191
MLLT6	8,103287808	8,348728154	8,426264755	8,6794801	8,573647187	8,744833837
MLN	0	0	0	0	0	0
MLNR	0	0	0	0	0	0
MLPH	0	0	0	0	0	0
MLST8	4,459431619	4	4,64385619	1	3	0
MLX	6,62935662	7,108524457	6,95419631	5,754887502	6,584962501	4,95419631
MLXIP	6,569855608	6,686500527	6,658211483	6,741466986	7,022367813	6,882643049
MLXIPL	0	0	0	0	0	0
MLYCD	6	6,266786541	6,375039431	6,977279923	7	6,62935662
MMAA	4,906890596	5,169925001	4,95419631	5,930737338	5,977279923	5,95419631
MMAB	3,700439718	4,64385619	4	4,857980995	4,247927513	3,169925001
MMACHC	3,700439718	3,321928095	3,584962501	2,807354922	3	2
MMADHC	7,960001932	7,741466986	7,77478706	8,184875343	8,426264755	8,330916878
MMD	5,672425342	5,554588852	5,459431619	6,06608919	6,375039431	6,882643049
MMD2	0	0	0	0	0	0
MME	2,807354922	2,584962501	3	3,807354922	3,700439718	4,95419631
MMEL1	0	0	0	0	0	0
MMGT1	7,426264755	7,475733431	7,22881869	7,499845887	7,321928095	6,930737338
MMP1	0	0	0	0	1,584962501	0
MMP10	0	0	0	0	0	0
MMP11	2,321928095	1	0	0	0	2
MMP12	0	0	0	0	0	0
MMP13	0	1	0	0	0	0
MMP14	6,129283017	6,375039431	7,17990909	3,321928095	5,087462841	4,321928095
MMP15	0	0	0	0	0	0
MMP16	0	0	0	0	0	0
MMP17	0	0	0	0	0	0
MMP19	4,169925001	4,169925001	4,169925001	0	3,321928095	0
MMP2	0	0	0	0	0	0
MMP20	0	0	0	0	1,584962501	0

MMP21	0	0	0	0	0	0
MMP23A	0	0	0	0	0	0
MMP23B	0	0	0	0	0	0
MMP24	0	0	0	0	0	0
MMP25	5,700439718	5,554588852	5,554588852	3,807354922	3,700439718	0
MMP26	0	0	0	0	0	0
MMP27	0	0	0	0	0	0
MMP28	2,807354922	0	1	0	0	3,169925001
MMP3	1,584962501	1	0	3,807354922	4,459431619	4,95419631
MMP7	0	1	3	1	1,584962501	0
MMP8	3	0	3	2,321928095	0	0
MMP9	9,941047606	10,14338321	10,24079133	5,614709844	7,707359132	4,95419631
MMRN1	2,584962501	0	2,807354922	0	0	2
MMRN2	0	0	0	2,321928095	0	2
MMS19	7,383704292	7,531381461	7,50779464	7,971543554	7,864186145	7,672425342
MMS22L	5,977279923	5,781359714	5,554588852	6,375039431	5,930737338	6,882643049
MN1	4,169925001	3,321928095	3,807354922	5,459431619	4,95419631	6,491853096
MNAT1	6,339850003	6,357552005	6,303780748	6,930737338	6,918863237	6,754887502
MND1	0	0	1	0	0	0
MNDA	9,874981348	9,802516365	9,48984796	6,06608919	6,584962501	6,930737338
MNS1	2,321928095	1	3	5,129283017	4,247927513	6,321928095
MNT	6,375039431	6,22881869	6,491853096	5,754887502	6,129283017	6,491853096
MNX1	0	0	0	0	0	0
MOAP1	6,977279923	6,977279923	7,011227255	7,426264755	7,614709844	7,622051819
MOB1A	9,933690655	9,799281622	9,753216749	8,930737338	9,047123912	8,927777962
MOB1B	7,714245518	7,599912842	7,577428828	6,189824559	4,95419631	5,554588852
MOB2	4,392317423	4,64385619	4,169925001	4,321928095	3,700439718	3,807354922
MOB3A	6,539158811	6,409390936	6,64385619	6,266786541	6,807354922	5,95419631
MOB3B	5,807354922	5,807354922	5,882643049	6,820178962	6,375039431	7,209453366
MOB3C	5,169925001	6,169925001	5,754887502	2,807354922	4,95419631	3,169925001
MOB4	8,016808288	8,194756854	7,948367232	7,813781191	8,174925683	8,271463028
MOBP	1,584962501	1	1,584962501	5	3,700439718	7,129283017
MOCOS	1	0	0	0	3	3,169925001
MOCs1	1	0	1	0	0	0
MOCs2	6,658211483	6,209453366	6,189824559	6,129283017	6,459431619	6,62935662
MOCs3	4,584962501	3,906890596	4,247927513	5,614709844	5,554588852	6,247927513
MOG	0	0	0	0	0	0
MOGAT1	0	0	0	0	0	0
MOGAT2	0	0	0	0	0	0
MOGAT3	0	0	0	2,321928095	0	0
MOGS	5,169925001	5,554588852	4,64385619	5	5,087462841	5,554588852
MOK	1,584962501	0	1,584962501	3,807354922	3,700439718	2
MON1A	3,459431619	3,321928095	3,321928095	0	1,584962501	3,169925001
MON1B	8,049848549	8,159871337	8,092757141	8,573647187	8,471675214	8,463524373
MON2	7,276124405	6,942514505	7,189824559	7,392317423	7,044394119	7,169925001
MORC1	1,584962501	0	0	1	2,321928095	4,321928095
MORC2	5,977279923	6	5,857980995	5,129283017	5,554588852	4,95419631
MORC2-AS1	0	1,584962501	1,584962501	1	2,321928095	0
MORC3	8,566054038	8,6794801	8,475733431	8,77148947	8,665335917	8,87036472
MORC4	5,209453366	5,321928095	5,392317423	6,658211483	6,409390936	6,754887502
MORF4L1	8,523561956	8,503825738	8,321928095	8,357552005	8,447083226	8,312882955
MORF4L2	8,257387843	8,17990909	7,948367232	8,164906927	8,348728154	8,087462841
MORN1	0	2,807354922	0	2,807354922	3	3,169925001
MORN2	3,807354922	3,169925001	3,321928095	0	2,321928095	0
MORN3	5,491853096	6,06608919	6,303780748	6,554588852	6,741466986	6,930737338
MORN4	2,584962501	3,169925001	2,807354922	0	4	0
MORN5	0	0	0	0	0	0
MOS	0	0	0	0	0	0

MOSPD1	4,906890596	4,857980995	4,523561956	5	1,584962501	4,64385619
MOSPD2	7,303780748	7,266786541	6,930737338	7,357552005	6,807354922	7,129283017
MOSPD3	2,321928095	2,807354922	3	0	1,584962501	0
MOV10	5,491853096	5,357552005	6,06608919	5,832890014	4,807354922	5,700439718
MOV10L1	0	0	0	0	0	0
MOXD1	2,321928095	2,321928095	2,584962501	1	3,321928095	2
MOXD2P	0	0	0	0	0	0
MPDU1	6,129283017	6,882643049	6,882643049	2,807354922	5,554588852	3,169925001
MPDZ	1	0	2,807354922	4,321928095	3,700439718	4,64385619
MPEG1	8,903881846	9,044394119	8,876516947	5,357552005	5,169925001	4,321928095
MPG	5	5,169925001	5,392317423	4,321928095	4,64385619	3,807354922
MPHOSPH10	8,46760555	8,46760555	8,388017285	8,918863237	8,523561956	8,977279923
MPHOSPH6	6,977279923	7,312882955	6,930737338	4,700439718	5,930737338	3,807354922
MPHOSPH8	9,556506055	9,495855027	9,457380879	9,385862401	9,388017285	9,499845887
MPHOSPH9	6,882643049	6,781359714	7,17990909	6,95419631	6,700439718	6,62935662
MPI	5,672425342	5,285402219	5,491853096	5,882643049	5,930737338	5,169925001
MPL	0	0	0	0	0	0
MPND	4,321928095	4,584962501	4,523561956	0	0	0
MPO	2,584962501	1	0	3,321928095	4	5,554588852
MPP1	8,30833903	8,247927513	8,209453366	5,700439718	4,95419631	5,95419631
MPP2	1	0	1	0	0	0
MPP3	0	0	2,584962501	0	0	0
MPP4	0	0	0	1	0	0
MPP5	6,409390936	6,108524457	6,108524457	5,930737338	6,459431619	6,409390936
MPP6	6,569855608	6,22881869	6,303780748	6,906890596	7,22881869	7,276124405
MPP7	6,22881869	5,930737338	5,754887502	6,700439718	6,539158811	6,700439718
MPPE1	6,475733431	5,977279923	6,087462841	6,266786541	6,285402219	6,169925001
MPPED1	0	0	0	0	0	0
MPPED2	1	1	1	1	3	3,807354922
MPRIP	6,62935662	6,894817763	6,87036472	7,554588852	6,832890014	6,820178962
MPST	4	3,906890596	4	0	3	0
MPV17	6	6,321928095	6,321928095	5,882643049	6,285402219	6,491853096
MPV17L	0	0	0	0	1,584962501	2
MPV17L2	3,321928095	4,087462841	2,807354922	2,807354922	0	0
MPZ	1	1,584962501	2	4,523561956	4,247927513	5,700439718
MPZL1	6	5,554588852	5,727920455	5,357552005	4,247927513	4,95419631
MPZL2	3,906890596	4,392317423	4,392317423	5,614709844	5,285402219	6,06608919
MPZL3	4,906890596	4,700439718	4,700439718	7,055282436	6,807354922	6,882643049
MR1	6,554588852	6,857980995	6,523561956	6,459431619	6,700439718	6,569855608
MRAP	0	0	0	0	0	0
MRAP2	0	0	0	0	0	0
MRAS	5,672425342	5,321928095	5,209453366	2,321928095	2,321928095	0
MRC1	8,344295908	8,022367813	7,960001932	6,06608919	6,044394119	6,06608919
MRC2	3,906890596	3,169925001	3,169925001	4,523561956	4,247927513	4,95419631
MREG	5,807354922	5,247927513	5,247927513	4,523561956	4,95419631	3,169925001
MRFAP1	8,965784285	8,903881846	8,77478706	9,22881869	9,184875343	9,079484784
MRFAP1L1	9,370687407	9,28077077	9,364134655	9,997179481	10,12541347	10,09011242
MRGPRD	0	0	0	0	0	0
MRGPRE	0	0	0	0	0	0
MRGPRF	0	0	0	0	0	0
MRGPRG	0	0	0	0	0	0
MRGPRX1	0	0	0	0	0	0
MRGPRX2	0	0	0	0	0	0
MRGPRX3	0	0	0	0	0	0
MRGPRX4	0	0	0	0	0	0
MRI1	6,087462841	6,087462841	5,614709844	5,930737338	5,169925001	5,169925001
MRM1	2,807354922	1	2,584962501	0	4	0
MRO	0	0	0	0	0	0

MRPL1	7,108524457	6,686500527	6,832890014	7,409390936	7,383704292	8,016808288
MRPL10	6,022367813	5,807354922	6,129283017	7,022367813	6,882643049	7,129283017
MRPL11	6,22881869	5,95419631	5,930737338	6,321928095	6,459431619	6,247927513
MRPL12	3,807354922	3,321928095	3,807354922	0	0	0
MRPL13	6,845490051	6,554588852	6,658211483	5,700439718	6,539158811	6,569855608
MRPL14	6,375039431	5,977279923	5,95419631	5,614709844	6,247927513	4,95419631
MRPL15	6,930737338	6,930737338	6,988684687	6,930737338	6,189824559	5,357552005
MRPL16	7,54689446	7,442943496	7,312882955	7,375039431	7,266786541	6,820178962
MRPL17	5,357552005	5,614709844	5,727920455	4,087462841	5,285402219	4,95419631
MRPL18	7,139551352	6,942514505	7,17990909	6,882643049	7,022367813	6,569855608
MRPL19	6,189824559	6,303780748	6,285402219	5,614709844	5,392317423	5,357552005
MRPL2	5,044394119	4,700439718	5,169925001	4,857980995	4	3,807354922
MRPL20	7,741466986	7,658211483	7,707359132	8,103287808	7,768184325	7,813781191
MRPL21	5,807354922	6,22881869	6,339850003	6,266786541	6,584962501	5,700439718
MRPL22	6,539158811	6,266786541	6,303780748	7	6,247927513	6,491853096
MRPL23	0	0	0	0	0	0
MRPL23-AS1	0	0	0	0	0	0
MRPL24	6,459431619	6,50779464	6,426264755	7,339850003	7,247927513	7,375039431
MRPL27	5,832890014	6,209453366	6,044394119	2,807354922	5,169925001	4,64385619
MRPL28	3,700439718	4,700439718	4,700439718	2,321928095	3,321928095	3,807354922
MRPL3	7,491853096	7,257387843	7,108524457	7,14974712	7,434628228	7,055282436
MRPL30	6,768184325	6,658211483	6,375039431	5,832890014	6,50779464	3,807354922
MRPL32	6,977279923	6,832890014	6,754887502	7,392317423	7,108524457	7,491853096
MRPL33	8,159871337	8,129283017	7,813781191	8,224001674	8,396604781	8,174925683
MRPL34	7,098032083	6,672425342	6,459431619	6,882643049	6,539158811	6,882643049
MRPL35	6,491853096	6,442943496	6,599912842	6,321928095	6,247927513	6,754887502
MRPL36	5	4,95419631	5,044394119	5,930737338	5,930737338	5,554588852
MRPL37	4,754887502	5,781359714	5,247927513	6,375039431	5,781359714	6,06608919
MRPL38	1	3	3,321928095	3,321928095	3,700439718	0
MRPL39	5,392317423	5,087462841	5,169925001	5,614709844	5,554588852	6,169925001
MRPL4	4,857980995	5,672425342	5,357552005	4,321928095	5,781359714	5,700439718
MRPL40	5,977279923	5,392317423	5,523561956	4,700439718	5,64385619	5,169925001
MRPL41	6,459431619	6,266786541	6,781359714	5,357552005	4,459431619	4,95419631
MRPL42	7,266786541	7,011227255	6,930737338	6,658211483	7,087462841	6,569855608
MRPL43	6,741466986	6,714245518	6,672425342	6,459431619	7	6,06608919
MRPL44	7,392317423	7,475733431	7,539158811	7,577428828	7,434628228	7,87036472
MRPL45	6,832890014	7,087462841	7	7,592457037	7,965784285	7,894817763
MRPL45P2	1	2,807354922	2	3,321928095	4	2
MRPL46	3,906890596	3,906890596	4,459431619	4,087462841	4	2
MRPL47	7,055282436	6,658211483	6,523561956	6,741466986	7,06608919	7,011227255
MRPL48	5,426264755	5,584962501	5,357552005	6	5,781359714	5,169925001
MRPL49	6,087462841	6,22881869	6,044394119	6,658211483	6,321928095	6,409390936
MRPL50	6,906890596	6,658211483	6,64385619	7,209453366	6,918863237	7,209453366
MRPL51	7,169925001	7,199672345	6,965784285	7,098032083	7,599912842	6,409390936
MRPL52	7,055282436	6,658211483	6,754887502	6,375039431	7	6,06608919
MRPL53	2,807354922	4,087462841	3,807354922	3,807354922	4,807354922	4,321928095
MRPL54	5,807354922	5,832890014	5,672425342	5,754887502	5,554588852	5,554588852
MRPL55	5,426264755	5,64385619	5,882643049	6,375039431	6,247927513	5,554588852
MRPL9	6,741466986	6,614709844	6,475733431	7,64385619	7,451211112	7,442943496
MRPS10	7,06608919	6,942514505	6,584962501	7,339850003	7,348728154	7,375039431
MRPS11	5	5	4,700439718	5,247927513	5,459431619	5,357552005
MRPS12	5,044394119	5,087462841	5,554588852	5,459431619	5,459431619	5,700439718
MRPS14	6,14974712	6,339850003	5,930737338	6,554588852	6,584962501	6,930737338
MRPS15	5,321928095	5,64385619	5,781359714	5	5,554588852	4,321928095
MRPS16	7,523561956	7,475733431	7,011227255	7,392317423	7,475733431	7,562242424
MRPS17	4,584962501	4,087462841	5,459431619	5,523561956	4,459431619	5,832890014
MRPS18A	4,64385619	4,700439718	4,523561956	4,857980995	5,169925001	4,321928095
MRPS18B	7,942514505	8,174925683	7,8008999	8,471675214	8,665335917	8,475733431

MRPS18C	7,022367813	6,658211483	6,87036472	6,62935662	6,741466986	7,409390936
MRPS2	5,169925001	5	5,491853096	5,700439718	5,781359714	4,95419631
MRPS21	7,515699838	7,707359132	7,22881869	7,813781191	8,055282436	7,787902559
MRPS22	6,845490051	6,614709844	6,741466986	6,768184325	6,918863237	6,06608919
MRPS23	6,584962501	6,599912842	6,129283017	7,022367813	7,17990909	7,055282436
MRPS24	0	0	0	0	0	0
MRPS25	6,044394119	6,459431619	6,06608919	6,820178962	6,459431619	6,491853096
MRPS26	5,426264755	5,554588852	5,727920455	5	5,169925001	5,357552005
MRPS27	7,303780748	7,409390936	7,392317423	7,876516947	7,768184325	7,894817763
MRPS28	5,247927513	5,169925001	5,554588852	4,857980995	5,392317423	4,95419631
MRPS30	7,459431619	7,055282436	7,247927513	7,209453366	7,523561956	7,672425342
MRPS31	7,312882955	6,965784285	7,285402219	7,285402219	7,22881869	7,129283017
MRPS33	6,906890596	7,022367813	6,820178962	7,577428828	7,781359714	7,994353437
MRPS34	5,906890596	6,14974712	6,129283017	6,50779464	6,459431619	5,95419631
MRPS35	7,707359132	7,721099189	7,599912842	7,614709844	7,73470962	7,994353437
MRPS36	6,64385619	6,22881869	6,672425342	5,129283017	5,554588852	4,95419631
MRPS5	7,832890014	7,876516947	7,851749041	7,930737338	7,74819285	8,290018847
MRPS6	7,936637939	7,794415866	8,169925001	7,971543554	8,339850003	7,942514505
MRPS7	7,442943496	7,247927513	7,276124405	7,266786541	7,50779464	7,348728154
MRPS9	6,942514505	7,076815597	6,882643049	7,614709844	7,22881869	7,129283017
MRRF	5,247927513	5,285402219	6,044394119	6,768184325	6,375039431	7,055282436
MRS2	6,554588852	5,977279923	5,672425342	6,06608919	6,459431619	6,491853096
MRT04	4,754887502	4,857980995	4,523561956	5,754887502	5,459431619	5,95419631
MRV11	1	0	0	2,321928095	1,584962501	3,169925001
MRV11-AS1	0	1,584962501	0	0	0	0
MS4A1	9,622051819	9,453270634	9,479780264	10,87036472	10,70043972	10,82336724
MS4A10	0	0	0	0	0	0
MS4A12	1,584962501	0	0	2,807354922	0	4,64385619
MS4A13	0	0	0	0	0	0
MS4A14	2,321928095	3	3,807354922	0	1,584962501	0
MS4A15	0	0	0	0	0	0
MS4A2	3,906890596	4,523561956	3,700439718	1	3	0
MS4A3	4,169925001	3,584962501	3,906890596	2,321928095	3,321928095	3,169925001
MS4A4A	3,459431619	4,523561956	4,459431619	0	3,321928095	3,169925001
MS4A5	0	0	0	0	0	0
MS4A6A	7,383704292	6,965784285	6,375039431	2,807354922	2,321928095	3,169925001
MS4A6E	0	0	0	0	0	0
MS4A7	9,164906927	9,355351096	9,184875343	6,977279923	7,22881869	6,965784285
MSC	2,807354922	1,584962501	2,807354922	2,321928095	3	2
MSGN1	0	0	0	0	0	0
MSH2	6,754887502	6,658211483	6,727920455	7,098032083	7,108524457	6,754887502
MSH3	6,321928095	6,409390936	6,266786541	6,459431619	6,50779464	7,098032083
MSH4	0	0	1	3,321928095	3	6,06608919
MSH5	0	0	0	0	2,321928095	0
MSH5-SAPCD1	0	0	0	0	0	0
MSH6	7,839203788	7,74819285	7,6794801	8,071462363	8,21916852	8,06608919
MSI1	0	0	0	0	0	0
MSI2	8,092757141	8,238404739	8,21916852	8,276124405	8,276124405	7,994353437
MSL1	8,885696373	8,942514505	8,939579214	9,025139562	8,731319031	8,903881846
MSL2	8,124121312	8,082149041	7,930737338	8,6794801	8,784634846	8,915879379
MSL3	8,353146825	8,483815777	8,400879436	9,294620749	9,09011242	9,413627929
MSL3P1	3	0	2,807354922	0	2,321928095	0
MSLN	0	0	0	0	0	0
MSLNL	0	0	0	0	0	0
MSMB	0	0	0	0	0	0
MSMO1	6,189824559	6,392317423	5,906890596	6,189824559	6,807354922	6,06608919
MSMP	0	0	0	0	0	0
MSN	10,96794671	11,12412131	11,04371086	11,20028561	11,28019079	11,18982456

MSR1	6,930737338	6,754887502	6,614709844	2,321928095	3,321928095	4,321928095
MSRA	5,426264755	5,614709844	5,209453366	4,087462841	3,321928095	3,169925001
MSRB2	4,247927513	4	3,807354922	4,321928095	2,321928095	3,807354922
MSRB3	2,807354922	1	2,807354922	2,321928095	0	2
MSS51	3,584962501	3,169925001	3,700439718	1	3	0
MST1	2,584962501	3	2,584962501	5,129283017	4,807354922	4,64385619
MST1P2	1	1	1	4,087462841	0	3,807354922
MST1R	0	0	0	0	0	0
MSTN	0	0	0	0	2,321928095	3,169925001
MSTO1	2,807354922	4,459431619	4,169925001	4,523561956	2,321928095	0
MSTO2P	0	0	0	0	0	0
MSX1	0	2,321928095	1	2,807354922	1,584962501	2
MSX2	0	1,584962501	1,584962501	1	3	0
MSX2P1	0	0	0	0	0	0
MT1A	0	0	0	0	0	0
MT1B	0	0	0	0	0	0
MT1DP	0	0	0	0	0	0
MT1E	1,584962501	3,584962501	2	5,129283017	4,247927513	5,700439718
MT1F	4,459431619	4,459431619	5,129283017	6,06608919	6,375039431	6,930737338
MT1G	0	1,584962501	1,584962501	4,523561956	4,459431619	5,554588852
MT1H	0	0	0	2,807354922	0	3,807354922
MT1JP	0	0	0	0	0	0
MT1L	0	0	0	0	0	0
MT1M	0	0	0	0	0	0
MT1X	2,321928095	3,584962501	2	5	5,087462841	5,832890014
MT2A	8,060695932	8,290018847	8,335390355	7,672425342	8,159871337	8,665335917
MT3	0	1	0	0	0	0
MT4	0	0	0	0	0	0
MTA1	7,894817763	7,64385619	7,651051691	8,573647187	8,14974712	8,622051819
MTA2	6,832890014	7,044394119	7,21916852	7,531381461	7,768184325	7,46760555
MTA3	4,906890596	5,247927513	5,392317423	5,247927513	6,321928095	5,357552005
MTAP	6,321928095	6,321928095	6,409390936	6,930737338	6,247927513	6,491853096
MTBP	4,459431619	4,523561956	4,087462841	4,523561956	4,807354922	3,807354922
MTCH1	8,247927513	8,330916878	8,285402219	8,927777962	8,45532722	8,791162889
MTCH2	8,271463028	8,317412614	8,238404739	7,285402219	7,693486957	7,276124405
MTCP1	1,584962501	2,321928095	0	2,321928095	1,584962501	0
MTDH	10,67154107	10,71938882	10,67683861	10,71080643	10,64835758	10,74651432
MTF1	7,375039431	7,392317423	7,321928095	6,845490051	6,768184325	7,247927513
MTF2	8,14974712	8,247927513	8,209453366	8,495855027	8,434628228	8,159871337
MTFMT	5,321928095	5,584962501	5,044394119	4,700439718	5,459431619	4,95419631
MTFP1	5,727920455	5,087462841	5,392317423	5,247927513	5,930737338	3,807354922
MTFR1	4,64385619	4,523561956	3,700439718	0	3,700439718	0
MTG1	3	3,169925001	4,392317423	2,321928095	1,584962501	2
MTHFD1	5,977279923	5,95419631	5,209453366	3,807354922	4,807354922	4,321928095
MTHFD1L	4,64385619	4	4,087462841	4,321928095	4,95419631	4,321928095
MTHFD2	9,353146825	9,529430554	9,303780748	7,781359714	8,174925683	7,918863237
MTHFD2L	6	5,930737338	5,882643049	5,832890014	4,95419631	6,06608919
MTHFR	6,459431619	6,357552005	6,375039431	6,375039431	6,584962501	5,554588852
MTHFS	5	5,169925001	5,459431619	5,523561956	5,459431619	4,64385619
MTHFSD	4,459431619	4,857980995	4,700439718	5,357552005	5,64385619	5,169925001
MTIF2	7,781359714	7,813781191	7,665335917	8,060695932	7,888743249	7,787902559
MTIF3	7,672425342	7,6794801	7,781359714	8,224001674	8,118941073	7,994353437
MTM1	5,882643049	6	5,754887502	5,832890014	5,285402219	5,554588852
MTMR1	6,807354922	6,459431619	6,807354922	6,768184325	6,832890014	6,820178962
MTMR10	5,882643049	5,832890014	5,554588852	5,700439718	5,930737338	6,491853096
MTMR11	2,584962501	0	2	1	0	0
MTMR12	7,189824559	6,857980995	7,14974712	6,768184325	6,768184325	6,321928095
MTMR14	5,832890014	6,539158811	6,392317423	6,06608919	6,321928095	5,95419631

MTMR2	5,209453366	4,754887502	4,584962501	4,700439718	5,781359714	5,169925001
MTMR3	7,87036472	7,50779464	7,607330314	7,768184325	7,569855608	7,348728154
MTMR4	6,409390936	6,285402219	6,375039431	6,06608919	5,64385619	6,06608919
MTMR6	8,836050355	8,787902559	8,787902559	9,337621902	9,076815597	9,407267764
MTMR7	0	0	0	0	0	0
MTMR8	2,321928095	2,321928095	2,584962501	1	3	2
MTMR9	7,50779464	7,312882955	7,707359132	7,599912842	7,348728154	7,409390936
MTMR9LP	0	1	1	0	0	0
MTNR1A	0	0	0	0	0	0
MTNR1B	0	0	0	0	0	0
MTO1	6,06608919	5,727920455	6,129283017	6,794415866	6,807354922	6,569855608
MTOR	6,491853096	6,459431619	6,375039431	6,321928095	5,857980995	6,754887502
MTPAP	6,392317423	6,569855608	6,247927513	6,129283017	5,930737338	6,700439718
MTPN	10,281933003	10,35645197	10,2179577	10,28886607	10,30378075	10,33539035
MTR	8,991521846	8,724513853	8,781359714	9,124121312	9,20701432	8,991521846
MTRF1	6,189824559	6,303780748	6,375039431	6,375039431	6,50779464	6,754887502
MTRF1L	4,169925001	4,321928095	4,754887502	3,321928095	3	3,169925001
MTRNR2L1	8,335390355	8,375039431	8,169925001	9,688250309	9,791162889	10,03479896
MTRNR2L10	1	2,584962501	2	2,321928095	3	3,807354922
MTRNR2L2	0	0	0	0	0	0
MTRNR2L3	4,64385619	4,321928095	4,392317423	6,50779464	6,409390936	6,754887502
MTRNR2L4	0	1	1,584962501	3,321928095	2,321928095	4,321928095
MTRNR2L5	0	0	0	0	0	0
MTRNR2L6	2,584962501	2,807354922	2,807354922	2,807354922	4,459431619	0
MTRNR2L7	2,321928095	2,584962501	0	2,807354922	3	3,807354922
MTRNR2L8	3,584962501	4,321928095	4,247927513	6,129283017	5,857980995	6,06608919
MTRR	6,14974712	6,321928095	6,06608919	7,055282436	7,348728154	6,820178962
MTSS1	6,977279923	6,442943496	6,918863237	7,303780748	7,539158811	7,491853096
MTSS1L	1	0	0	1	0	0
MTTP	2,321928095	1,584962501	1	4,700439718	5,087462841	6,06608919
MTUS1	4	3,906890596	3,807354922	5,832890014	5,459431619	6,247927513
MTUS2	1	1	1,584962501	5	4,247927513	5,95419631
MTX1	0	0	0	0	0	0
MTX2	6,392317423	6,392317423	6,285402219	6,266786541	5,930737338	4,64385619
MTX3	5,906890596	5,930737338	5,584962501	6,375039431	6,044394119	6,169925001
MUC1	2,807354922	1,584962501	2,807354922	0	1,584962501	0
MUC12	0	0	0	0	0	0
MUC13	0	0	0	0	0	0
MUC15	0	0	0	0	0	0
MUC16	0	0	0	0	0	0
MUC17	0	0	0	0	0	0
MUC2	0	0	0	0	0	0
MUC20	3,321928095	2,584962501	3,700439718	5,247927513	5,781359714	6,62935662
MUC21	0	0	0	0	0	0
MUC22	0	0	0	0	0	0
MUC4	0	0	0	0	0	0
MUC5B	0	0	0	0	0	0
MUC6	0	0	0	0	0	0
MUC7	0	0	0	0	0	0
MUCL1	0	0	0	0	0	0
MUL1	4,906890596	4,64385619	5,426264755	5,357552005	5,554588852	5,357552005
MUM1	6,569855608	6,539158811	6,820178962	6,266786541	6,658211483	6,169925001
MUM1L1	0	0	0	0	0	0
MUS81	6,754887502	6,14974712	6,714245518	6,50779464	6,409390936	6,491853096
MUSK	0	0	0	0	0	0
MUSTN1	0	0	0	0	0	0
MUT	6,857980995	6,475733431	6,426264755	7,076815597	7	7,562242424
MUTYH	3,321928095	3,807354922	2,807354922	4,321928095	4,64385619	4,321928095

MVD	4,247927513	3,321928095	4,459431619	2,807354922	4	4,95419631
MVK	4,321928095	4,321928095	5,169925001	2,321928095	3,700439718	3,169925001
MVP	6,700439718	6,832890014	7,17990909	6,977279923	7,044394119	6,820178962
MX1	6,554588852	6,714245518	7,189824559	6,50779464	7	7,098032083
MX2	6,087462841	6,409390936	6,409390936	6,95419631	6,741466986	6,965784285
MXD1	6,977279923	7,129283017	7,330916878	6,22881869	6,285402219	6,965784285
MXD3	3,321928095	3,169925001	3,321928095	2,807354922	4	3,169925001
MXD4	6,857980995	6,807354922	6,95419631	7,554588852	7,312882955	7,700439718
MXI1	8,233619677	8,430452552	8,409390936	7,491853096	8,092757141	7,011227255
MXRA5	0	0	0	0	0	0
MXRA7	3,459431619	3,321928095	3,321928095	3,807354922	4,459431619	2
MXRA8	0	0	0	3,321928095	0	4,64385619
MYADM	7,076815597	7,087462841	7,17990909	6,977279923	6,857980995	6,169925001
MYADML	0	0	0	0	0	2
MYADML2	0	0	0	0	0	0
MYB	4,321928095	4,523561956	4,754887502	5,459431619	5,554588852	5,169925001
MYBBP1A	5,906890596	6	6,129283017	6,321928095	6,375039431	5,554588852
MYBL1	8,836050355	8,54689446	8,519636253	8,266786541	8,434628228	8,204571144
MYBL2	0	1,584962501	0	0	1,584962501	2
MYBPC1	1	2,321928095	0	3,321928095	3,321928095	3,807354922
MYBPC2	0	0	0	1	0	0
MYBPC3	2,807354922	1,584962501	3	3,807354922	2,321928095	3,807354922
MYBPH	0	0	0	0	0	0
MYBPHL	0	0	0	1	0	0
MYC	6,614709844	6,832890014	6,87036472	7,098032083	6,882643049	7,276124405
MYCBP	6,247927513	6,375039431	6	6,62935662	6,044394119	6,06608919
MYCBP2	9,908392621	9,786269628	10,04575966	9,787902559	9,703903573	9,753216749
MYCBPAP	0	0	0	2,321928095	3	3,169925001
MYCN	0	1	0	0	0	0
MYCNOS	1	0	0	2,321928095	0	3,169925001
MYCT1	2,321928095	0	0	0	0	0
MYD88	7,636624621	7,994353437	7,721099189	6,584962501	6,918863237	6,409390936
MYEF2	5,169925001	4,700439718	4,459431619	5,129283017	5,64385619	6,409390936
MYEOV	0	0	0	0	0	0
MYF5	0	0	0	0	0	0
MYF6	0	0	0	0	0	0
MYH1	0	0	0	1	0	0
MYH10	2,321928095	1	3	3,321928095	4,247927513	5,169925001
MYH11	0	0	1,584962501	3,807354922	5,087462841	5,700439718
MYH13	0	0	0	0	0	0
MYH14	0	0	0	0	0	2
MYH15	2,321928095	1,584962501	1,584962501	3,321928095	3,321928095	4,321928095
MYH16	0	0	0	0	0	4,321928095
MYH2	0	0	0	0	0	0
MYH3	3,459431619	3,321928095	3,169925001	6,06608919	4,807354922	5,700439718
MYH4	0	0	0	0	0	0
MYH6	0	0	0	0	0	0
MYH7	0	0	0	0	0	0
MYH7B	0	1	0	0	0	0
MYH8	1	0	0	0	0	0
MYH9	9,87036472	9,95419631	9,924812504	10,04984855	10,04439412	10,04848687
MYL1	0	0	0	0	0	0
MYL10	0	0	0	0	0	0
MYL12A	10,19844504	10,18858885	10,17617315	9,792790294	9,981567282	9,703903573
MYL12B	9,881113961	9,847057346	9,911391988	9,828136484	9,897845456	9,652844973
MYL2	0	0	0	0	0	0
MYL3	0	0	0	0	0	0
MYL4	0	0	0	0	0	0

MYL5	0	2,321928095	2	4,523561956	3,700439718	5,169925001
MYL6	9,273795599	9,409390936	9,204571144	8,396604781	8,857980995	8,426264755
MYL6B	4,247927513	3,807354922	3,321928095	4,087462841	4,459431619	4,321928095
MYL7	0	0	0	0	0	0
MYL9	0	0	0	0	0	0
MYLIP	7,375039431	7,417852515	7,459431619	8,011227255	7,832890014	7,622051819
MYLK	1,584962501	2,807354922	2	5	5,781359714	6,169925001
MYLK-AS1	1	1	0	0	2,321928095	0
MYLK2	0	0	0	0	0	0
MYLK3	0	0	0	0	0	2
MYLK4	2,807354922	1,584962501	2,584962501	1	3	0
MYLPF	1	0	1,584962501	3,807354922	1,584962501	3,807354922
MYNN	6,321928095	6,044394119	6,06608919	6,584962501	6,087462841	6,321928095
MYO10	3,321928095	3,584962501	3,584962501	3,807354922	4,807354922	4,64385619
MYO15A	1,584962501	0	1	5,754887502	4,807354922	7,011227255
MYO15B	1,584962501	2,584962501	2	0	0	0
MYO16	1,584962501	0	1,584962501	3,321928095	2,321928095	3,169925001
MYO18A	5,700439718	5,285402219	5,459431619	5,247927513	5,087462841	5,554588852
MYO18B	0	0	0	0	0	0
MYO19	5,285402219	5,426264755	5,357552005	6,554588852	5,727920455	7,011227255
MYO1A	0	1	0	4,523561956	2,321928095	5,832890014
MYO1B	2,584962501	1,584962501	1,584962501	2,807354922	3,321928095	3,807354922
MYO1C	4,247927513	4	3,906890596	4,321928095	3	2
MYO1D	3,906890596	4,459431619	4,64385619	5	5,459431619	3,169925001
MYO1E	6,569855608	6,781359714	6,614709844	4,321928095	3,321928095	0
MYO1F	8,285402219	8,451211112	8,797661526	7,442943496	7,614709844	7,276124405
MYO1G	5,321928095	4,584962501	4,906890596	4,857980995	3,700439718	2
MYO1H	0	0	0	2,321928095	1,584962501	0
MYO3A	2,321928095	1,584962501	0	3,807354922	3,700439718	2
MYO3B	0	0	0	0	1,584962501	3,169925001
MYO5A	7,971543554	7,686500527	7,599912842	6,845490051	6,741466986	6,700439718
MYO5B	1	0	0	1	3	3,807354922
MYO5C	2,321928095	1,584962501	3,169925001	4,857980995	4,459431619	4,95419631
MYO6	6	5,426264755	6,129283017	6,62935662	6,321928095	6,820178962
MYO7A	0	1	1,584962501	0	0	0
MYO7B	0	0	0	0	0	0
MYO9A	7,577428828	7,50779464	7,515699838	7,339850003	7,584962501	7,375039431
MYO9B	7,312882955	7,475733431	7,426264755	6,658211483	6,50779464	6,700439718
MYOC	0	0	0	0	0	0
MYOCD	0	1,584962501	0	0	0	3,169925001
MYOD1	0	0	0	0	0	0
MYOF	7,375039431	7,312882955	7,189824559	1	1,584962501	0
MYOG	0	0	0	0	0	0
MYOM1	4,392317423	3,807354922	4,087462841	6,741466986	6,247927513	7,442943496
MYOM2	4	3	3,169925001	2,807354922	3,321928095	0
MYOM3	0	0	0	0	2,321928095	0
MYOT	0	0	0	0	0	0
MYOZ1	0	0	0	0	0	0
MYOZ2	0	0	0	1	0	0
MYOZ3	1,584962501	0	1,584962501	2,321928095	2,321928095	3,807354922
MYPN	0	0	0	2,807354922	2,321928095	3,807354922
MYPOP	5,727920455	5,321928095	5,169925001	4,700439718	5,392317423	4,64385619
MYRIP	1	0	0	0	0	0
MYSM1	7,357552005	7,357552005	7,64385619	7,700439718	7,417852515	7,700439718
MYT1	0	0	1	1	3	2
MYT1L	2,584962501	1	2	4,523561956	3,321928095	4,321928095
MYZAP	2,584962501	3,584962501	2	4,700439718	2,321928095	0
MZB1	3,321928095	2,584962501	2	1	2,321928095	4,95419631

MZF1	4,906890596	4,700439718	5,614709844	5,882643049	5,554588852	5,95419631
MZT1	6,794415866	6,523561956	6,285402219	6,768184325	6,857980995	6,965784285
MZT2A	5,169925001	5,392317423	5,700439718	6,820178962	6,700439718	7,011227255
MZT2B	6,906890596	7,159871337	7,50779464	8,071462363	8,257387843	8,299208018
N4BP1	8,62935662	8,54303182	8,511752654	8,614709844	8,515699838	8,665335917
N4BP2	6,977279923	6,686500527	6,882643049	6,321928095	6,741466986	6,321928095
N4BP2L1	8,50779464	8,625708843	8,816983623	8,515699838	8,209453366	7,918863237
N4BP2L2	10,37721053	10,30833903	10,6183855	10,18858885	10,11113567	10,23840474
N4BP3	2,584962501	3	3,906890596	3,807354922	4,247927513	4,64385619
N6AMT1	3,807354922	3,321928095	4,169925001	4,321928095	4	0
NAA10	4,857980995	4,321928095	4,169925001	4,087462841	5,169925001	4,64385619
NAA11	0	0	0	0	0	0
NAA15	7,459431619	7,312882955	7,276124405	7,994353437	7,768184325	7,918863237
NAA16	7,098032083	6,977279923	6,906890596	7,864186145	7,721099189	7,515699838
NAA20	7,169925001	7,321928095	7,055282436	7,022367813	7	7,011227255
NAA25	6,539158811	6,50779464	6,768184325	7,022367813	6,807354922	7,539158811
NAA30	7,554588852	7,693486957	7,813781191	8,303780748	7,948367232	8,257387843
NAA35	7,584962501	7,832890014	7,721099189	8,011227255	7,820178962	7,918863237
NAA38	6,22881869	6,442943496	6,459431619	5,832890014	6,247927513	6,169925001
NAA40	3,459431619	3,584962501	3,321928095	0	4	0
NAA50	8,038918989	7,787902559	7,73470962	8,276124405	8,082149041	8,257387843
NAA60	5,64385619	5,977279923	5,523561956	6,06608919	6,584962501	5,95419631
NAAA	7,033423002	6,714245518	6,658211483	6,459431619	6,459431619	6,169925001
NAALAD2	2,321928095	3	2	5	4,64385619	5,700439718
NAALADL1	3,459431619	2,807354922	4,169925001	2,807354922	0	0
NAALADL2	3,700439718	4,169925001	3,584962501	6,554588852	6,375039431	7,312882955
NAB1	6,375039431	6,339850003	6,426264755	6,554588852	6,409390936	5,95419631
NAB2	5,491853096	5,247927513	5,321928095	3,807354922	5,169925001	3,807354922
NACA	10,40832974	10,46250227	10,23720996	11,2227949	11,15165083	11,24555271
NACA2	6,781359714	6,930737338	6,523561956	8,14974712	8,14974712	8,413627929
NACAD	0	0	0	2,321928095	0	0
NACC1	5	5,129283017	4,906890596	4,700439718	4,459431619	3,807354922
NACC2	6,22881869	6,303780748	6,554588852	6,129283017	5,554588852	6,754887502
NADK	5,392317423	5,087462841	4,754887502	3,321928095	3,700439718	3,169925001
NADSYN1	6,044394119	6,392317423	6,266786541	6,266786541	6,741466986	6,169925001
NAE1	7,569855608	7,475733431	7,826548487	7,768184325	7,888743249	7,209453366
NAF1	6,087462841	5,807354922	5,807354922	5,930737338	5,727920455	5,700439718
NAGA	7,139551352	7,321928095	6,714245518	2,807354922	4	0
NAGK	8,189824559	8,144658243	7,994353437	7,098032083	7,139551352	7,129283017
NAGLU	4,392317423	3,700439718	4,64385619	0	3	0
NAGPA	6,087462841	6,266786541	6,108524457	5	5,285402219	4,95419631
NAGS	1,584962501	2,321928095	0	0	0	0
NAIF1	5,491853096	5,087462841	5,754887502	5,832890014	5,727920455	5,169925001
NAIP	2,321928095	0	2,807354922	0	0	0
NALCN	0	1	0	1	0	0
NAMPT	8,487840034	8,744833837	8,864186145	7,475733431	7,924812504	7,64385619
NANOG	0	0	0	0	0	0
NANOGNB	1	0	0	0	1,584962501	0
NANOS1	0	1	0	2,321928095	0	2
NANOS2	0	0	0	0	0	0
NANOS3	0	0	0	0	0	0
NANP	4,459431619	4,857980995	4,95419631	1	2,321928095	3,807354922
NANS	6,584962501	6,754887502	6,523561956	4,321928095	4,807354922	2
NAP1L1	11,31741261	11,14274528	11,169925	11,64069684	11,50481899	11,50481899
NAP1L2	5,977279923	5,426264755	5,209453366	6,700439718	6,50779464	6,700439718
NAP1L3	4,392317423	4,392317423	3,321928095	3,807354922	4,247927513	3,807354922
NAP1L4	8,885696373	8,741466986	9,079484784	9,987264012	9,941047606	10,11243951
NAP1L5	4,392317423	4	4,169925001	3,321928095	5,554588852	2

NAP1L6	0	0	0	2,321928095	0	2
NAPA	2,807354922	1,584962501	2,584962501	0	0	0
NAPB	6,044394119	5,807354922	6,108524457	6,820178962	6,807354922	7,055282436
NAPEPLD	5,247927513	5,554588852	5,392317423	4,857980995	5,554588852	5,832890014
NAPG	6,930737338	7,022367813	6,87036472	6,554588852	6,247927513	6,169925001
NAPSA	0	0	1	0	0	0
NAPSB	4,523561956	4,95419631	4,392317423	4,321928095	4,807354922	3,169925001
NARF	5,523561956	5,357552005	5,882643049	6,741466986	6,807354922	4,95419631
NARS	9,451211112	9,370687407	9,221587121	8,985841937	8,942514505	8,991521846
NARS2	5,491853096	5,285402219	5,392317423	5,523561956	5,781359714	6,06608919
NASP	8,276124405	8,108524457	7,948367232	8,77478706	8,836050355	8,700439718
NAT1	4,64385619	4,584962501	4,95419631	4,523561956	4,64385619	3,169925001
NAT10	7,276124405	7,285402219	7,491853096	8,033423002	7,74819285	8,144658243
NAT14	1	0	0	0	0	0
NAT16	0	0	0	1	2,321928095	0
NAT2	0	0	0	0	0	0
NAT8	0	0	0	0	0	0
NAT8L	0	0	0	0	0	0
NAT9	3,459431619	4,087462841	3,807354922	3,321928095	4,459431619	3,807354922
NAV1	3,584962501	3,807354922	3,584962501	4,523561956	4,807354922	6,169925001
NAV2	2,321928095	3	2,584962501	3,321928095	0	4,64385619
NAV2-AS4	0	0	0	0	0	0
NAV3	2,807354922	2,807354922	2	0	1,584962501	2
NBAS	7,312882955	7,562242424	7,523561956	7,577428828	7,383704292	7,539158811
NBEA	4,392317423	4,321928095	4,584962501	5,754887502	5,169925001	5,554588852
NBEAL1	6,409390936	6,62935662	6,672425342	6,554588852	7,087462841	6,820178962
NBEAL2	5,209453366	5,321928095	5,754887502	5,357552005	5,781359714	6,06608919
NBEAP1	0	0	0	1	0	0
NBL1	0	3	3	2,321928095	1,584962501	0
NBN	8,511752654	8,531381461	8,531381461	7,577428828	7,794415866	7,169925001
NBPF1	3,584962501	2,807354922	3	1	1,584962501	2
NBPF10	0	1	0	0	2,321928095	0
NBPF11	4,523561956	5,087462841	4,459431619	4,700439718	5,857980995	5,95419631
NBPF14	3	0	3,807354922	1	0	0
NBPF15	3,459431619	3,584962501	3,321928095	3,321928095	3,321928095	2
NBPF22P	0	0	0	0	0	0
NBPF3	0	0	0	1	0	0
NBPF4	0	0	0	0	0	0
NBPF6	0	0	0	0	0	0
NBPF7	0	0	0	0	0	0
NBPF9	2,584962501	3	3,584962501	5	4,247927513	3,169925001
NBR1	9,052568051	9,124121312	8,906890596	9,2644426	9,214319121	9,400879436
NBR2	2,584962501	3,584962501	3,807354922	5,459431619	4,247927513	2
NCALD	5,169925001	5,044394119	5,129283017	5,930737338	5,087462841	3,807354922
NCAM1	5,672425342	5,357552005	5,321928095	5,882643049	5,727920455	5,95419631
NCAM2	2,807354922	0	0	1	0	3,169925001
NCAN	0	0	0	0	0	0
NCAPD2	6,375039431	6,727920455	6,64385619	7,055282436	6,375039431	6,491853096
NCAPD3	5,700439718	5,727920455	5,882643049	6	5,554588852	6,321928095
NCAPG	3,321928095	1	1,584962501	1	2,321928095	3,807354922
NCAPG2	5,285402219	5	4,64385619	4,523561956	3,321928095	4,321928095
NCAPH	4,523561956	4,584962501	3,700439718	5,882643049	5,392317423	5,832890014
NCAPH2	4,321928095	5,044394119	5,044394119	3,321928095	4,459431619	4,95419631
NCBP1	6,832890014	7	6,930737338	7,339850003	7,06608919	6,930737338
NCBP2	7,651051691	7,693486957	7,781359714	7,942514505	8,118941073	8,087462841
NCCRP1	2,321928095	2,584962501	2	0	0	0
NCDN	2,807354922	1,584962501	3,584962501	3,321928095	3	0
NCEH1	7,960001932	8,038918989	7,851749041	2,807354922	4,247927513	3,807354922

NCF1	1,584962501	2,807354922	2,807354922	0	0	0
NCF1B	0	1	0	0	0	0
NCF1C	4,906890596	5,087462841	4,64385619	1	3,321928095	2
NCF2	10,06877828	10,01680829	9,968666793	5,357552005	6,409390936	6,169925001
NCF4	7,62935662	7,475733431	7,614709844	6,06608919	5,930737338	5,357552005
NCK1	7,50779464	7,357552005	7,50779464	7,813781191	7,62935662	7,87036472
NCK2	7,409390936	7,14974712	7,491853096	8,087462841	7,948367232	8,348728154
NCKAP1	3,700439718	3	3,169925001	3,807354922	4,459431619	3,169925001
NCKAP1L	9,35974956	9,50779464	9,379378367	9,047123912	9,126704473	8,95419631
NCKAP5	0	0	2	1	2,321928095	3,169925001
NCKAP5L	4,754887502	5,426264755	5,321928095	2,321928095	3,321928095	0
NCKIPSD	4,169925001	4	3	1	1,584962501	0
NCL	11,07079181	11,01402047	11,06272077	11,027906	11,16176174	10,91662592
NCLN	5,700439718	5,614709844	5,754887502	6,375039431	5,459431619	7,209453366
NCOA1	7,971543554	8,189824559	8,082149041	8,312882955	8,022367813	8,531381461
NCOA2	7,592457037	7,451211112	7,658211483	7,577428828	7,64385619	7,721099189
NCOA3	9,126704473	9,076815597	9,346513733	9,45532722	9,440869168	9,306061689
NCOA4	9,550746785	9,592457037	9,353146825	8,266786541	8,693486957	8,622051819
NCOA5	6,584962501	6,807354922	6,714245518	7,169925001	7,539158811	7,64385619
NCOA6	7,960001932	8,199672345	8,30833903	8,139551352	8,243173983	7,787902559
NCOA7	8,665335917	8,696967526	8,807354922	8,696967526	8,558420713	8,622051819
NCOR1	9,74819285	9,620219826	9,874981348	10,027906	9,83447105	10,05934446
NCOR1P1	0	0	0	0	0	0
NCOR2	8	7,906890596	8,129283017	7,741466986	7,658211483	7,592457037
NCR1	5,832890014	5,832890014	6,108524457	5,129283017	5,169925001	0
NCR2	0	0	0	2,321928095	0	0
NCR3	1	0	1,584962501	0	0	0
NCS1	1,584962501	3,584962501	3,321928095	3,807354922	3,321928095	2
NCSTN	6,247927513	6,339850003	6,129283017	3,807354922	5,727920455	3,169925001
NDC80	5,285402219	4,95419631	5,209453366	6,62935662	5,930737338	5,832890014
NDE1	6,475733431	6,62935662	6,375039431	6,409390936	6,807354922	6,882643049
NDEL1	8,049848549	8,28077077	8,016808288	8,204571144	8,426264755	8,108524457
NDFIP1	8,487840034	8,64385619	8,515699838	8,573647187	8,64385619	8,426264755
NDFIP2	4,64385619	4,321928095	3,906890596	4,700439718	5,459431619	5,169925001
NDN	2,321928095	0	2	0	0	0
NDNF	0	0	0	0	0	0
NDOR1	0	3	1	0	0	0
NDP	0	1	0	0	0	0
NDRG1	8,451211112	8,845490051	8,611024797	7,693486957	8,243173983	6,62935662
NDRG2	3,321928095	3,700439718	3,807354922	1	1,584962501	2
NDRG3	6,672425342	6,918863237	6,523561956	6,845490051	6,918863237	6,754887502
NDRG4	0	0	1	0	0	0
NDST1	6,426264755	6,554588852	6,285402219	1	3	0
NDST2	2,584962501	2,321928095	2	1	2,321928095	0
NDST3	0	0	0	0	0	0
NDST4	1	0	1	1	0	0
NDUFA1	10,06474276	10,12928302	9,83447105	9,216745858	9,479780264	9,041659152
NDUFA10	7,584962501	7,383704292	7,14974712	8,022367813	7,948367232	7,851749041
NDUFA11	6,754887502	7,108524457	6,857980995	6,459431619	6,700439718	6,491853096
NDUFA12	8,016808288	7,918863237	7,74819285	7,918863237	7,707359132	7,592457037
NDUFA13	5,64385619	6,14974712	5,807354922	5,882643049	5,285402219	4,95419631
NDUFA2	7,707359132	7,977279923	8,044394119	7,768184325	7,768184325	7,46760555
NDUFA3	5,357552005	5,95419631	5,491853096	5,357552005	5,285402219	5,832890014
NDUFA4	8,689997971	8,618385502	8,693486957	8,087462841	8,233619677	8,299208018
NDUFA4L2	0	0	0	0	0	0
NDUFA5	8,54689446	8,721099189	8,658211483	8,797661526	8,82336724	8,665335917
NDUFA6	8,124121312	8,055282436	7,781359714	7,851749041	7,807354922	7,761551232
NDUFA7	5,584962501	5,554588852	5,977279923	4,700439718	5,285402219	3,169925001

NDUFA8	6,409390936	6,22881869	6,321928095	6,22881869	6,247927513	6,409390936
NDUFA9	6,942514505	6,930737338	6,754887502	7,098032083	7,044394119	6,754887502
NDUFAB1	8,611024797	8,672425342	8,361943774	8,312882955	8,654636029	8,724513853
NDUFAF1	6,06608919	6	5,727920455	5,357552005	5,977279923	5,832890014
NDUFAF2	5,426264755	5,781359714	5,129283017	5,882643049	5,727920455	4,64385619
NDUFAF3	5	5,882643049	6,129283017	5,930737338	6,247927513	5,169925001
NDUFAF4	5,672425342	5,672425342	5,614709844	6,22881869	6,285402219	6,62935662
NDUFB1	8,700439718	8,550746785	8,519636253	8,689997971	8,636624621	8,569855608
NDUFB10	6,539158811	6,930737338	6,832890014	6,906890596	7,451211112	6,247927513
NDUFB11	6,491853096	6,22881869	6,129283017	7	7	6,62935662
NDUFB2	8,011227255	7,906890596	7,882643049	7,189824559	7,366322214	6,820178962
NDUFB3	7,851749041	7,832890014	7,700439718	8,071462363	8,257387843	8,016808288
NDUFB4	8,396604781	8,330916878	8,654636029	8,77148947	8,74819285	8,714245518
NDUFB5	8,076815597	8,071462363	7,826548487	7,971543554	7,888743249	7,942514505
NDUFB6	7,139551352	7,022367813	6,614709844	6,741466986	6,614709844	5,832890014
NDUFB7	5,614709844	5,882643049	6	6,266786541	6,189824559	6,247927513
NDUFB8	7,965784285	8,082149041	7,754887502	7,982993575	8,21916852	7,813781191
NDUFB9	8,049848549	8,169925001	7,948367232	7,918863237	7,768184325	7,247927513
NDUFC1	8,092757141	8,379378367	8,339850003	7,839203788	7,982993575	8,06608919
NDUFC2	7,900866808	7,930737338	7,787902559	7,714245518	7,73470962	7,592457037
NDUFC2-KCTD14	0	0	0	0	0	0
NDUFS1	8,060695932	8,113742166	7,994353437	7,781359714	7,977279923	7,761551232
NDUFS2	7,055282436	7,426264755	7,64385619	7,475733431	7,348728154	7,055282436
NDUFS3	7,882643049	7,87036472	7,62935662	7,894817763	7,74819285	7,700439718
NDUFS4	7,108524457	7,129283017	7,17990909	7,321928095	7,451211112	7,741466986
NDUFS5	8,233619677	8,257387843	8,129283017	8,224001674	8,471675214	8,129283017
NDUFS6	8,442943496	8,422064766	8,539158811	8,113742166	8,257387843	8,271463028
NDUFS7	5,357552005	5,882643049	6,392317423	5,930737338	5,64385619	5,554588852
NDUFS8	5,64385619	5,672425342	5,781359714	5,930737338	5,857980995	4,64385619
NDUFV1	6,189824559	6,584962501	6,375039431	6,906890596	7,366322214	6,62935662
NDUFV2	6,475733431	6,686500527	7,303780748	7,076815597	7,247927513	7,348728154
NDUFV3	6,857980995	6,781359714	6,426264755	5,754887502	5,64385619	6,06608919
NEAT1	10,80251637	10,84627391	11,027906	11,41943355	11,0768156	11,43567026
NEB	3,807354922	3,584962501	3	7,515699838	6,741466986	8,271463028
NEBL	1	1,584962501	2	2,807354922	0	0
NECAB1	3,700439718	3,906890596	3,807354922	5,129283017	5,781359714	6,569855608
NECAB2	0	0	0	0	0	0
NECAB3	3	1,584962501	0	0	0	2
NECAP1	6,64385619	7	6,988684687	6,930737338	7,06608919	6,882643049
NECAP2	7,672425342	7,651051691	7,321928095	7,727920455	7,864186145	8,016808288
NEDD1	7,672425342	7,754887502	7,62935662	8,033423002	8,071462363	8,108524457
NEDD4	4,247927513	4,169925001	3,321928095	4,321928095	4,459431619	3,169925001
NEDD4L	5,209453366	4,95419631	4,584962501	6,50779464	6,321928095	6,965784285
NEDD8	7,876516947	8,14974712	8,082149041	8,060695932	8,392317423	8,238404739
NEDD8-MDP1	0	0	0	0	0	0
NEDD9	6,845490051	6,741466986	6,95419631	6,06608919	6,375039431	5,700439718
NEFH	2,321928095	2,807354922	1	1	0	0
NEFL	1,584962501	1	1,584962501	0	1,584962501	2
NEFM	0	0	1,584962501	0	1,584962501	3,807354922
NEGR1	2,584962501	3,169925001	3,169925001	4,321928095	4,807354922	5,169925001
NEGR1-IT1	0	0	0	0	0	0
NEIL1	3,459431619	3,169925001	3,321928095	4,523561956	3,321928095	4,64385619
NEIL2	4,64385619	4	4,247927513	4,321928095	3,700439718	4,321928095
NEIL3	2,584962501	2,584962501	2	2,807354922	2,321928095	2
NEK1	7,459431619	7,06608919	7,491853096	8,294620749	7,820178962	7,942514505
NEK10	2,807354922	1,584962501	1,584962501	5,523561956	4	6,700439718
NEK11	1,584962501	2,321928095	1,584962501	4,321928095	3	4,95419631
NEK2	3	1,584962501	1,584962501	0	0	5,169925001

NEK3	4,523561956	4,906890596	4,64385619	4,700439718	3,321928095	4,321928095
NEK4	6,129283017	6,442943496	5,930737338	6,882643049	6,189824559	6,569855608
NEK5	0	3	1	5,129283017	5,392317423	5,832890014
NEK6	7,011227255	7,257387843	6,820178962	2,321928095	3,700439718	3,169925001
NEK7	8,060695932	7,820178962	7,73470962	8,321928095	8,299208018	8,204571144
NEK8	2,584962501	3,700439718	3,807354922	3,807354922	1,584962501	4,95419631
NEK9	8,13442632	8,174925683	8,276124405	8,861086906	8,74819285	8,686500527
NELL1	2,321928095	1	3	1	4,64385619	4,95419631
NELL2	7,930737338	8,108524457	8,370687407	9,862637358	9,721099189	9,810571635
NEMF	9,139551352	9,152284842	9,136991112	9,105908509	9,098032083	9,21916852
NENF	5,807354922	5,857980995	6,044394119	6,06608919	5,727920455	5,169925001
NEO1	4,857980995	5,129283017	4,754887502	4,523561956	5,459431619	5,169925001
NES	0	0	0	0	0	0
NET1	5,044394119	5,392317423	5,044394119	5,754887502	5,554588852	5,169925001
NETO1	2,321928095	0	1	1	0	2
NETO2	6,392317423	6,209453366	5,857980995	4,321928095	4,247927513	3,807354922
NEU1	7,303780748	7,339850003	7,098032083	5,614709844	6,129283017	4,95419631
NEU2	0	0	0	0	0	0
NEU3	6,22881869	6,087462841	6,169925001	5	4,807354922	4,64385619
NEU4	0	0	0	0	1,584962501	2
NEURL1B	0	0	0	0	0	0
NEURL2	0	1	0	0	0	0
NEURL3	0	1	2,807354922	1	3	5,169925001
NEURL4	1	0	0	0	0	0
NEUROD1	2,584962501	2,807354922	1,584962501	5,459431619	5,285402219	5,554588852
NEUROD2	1	2,584962501	0	1	0	4,64385619
NEUROD4	0	0	0	0	0	0
NEUROD6	0	0	0	0	0	0
NEUROG1	0	0	0	0	0	0
NEUROG2	0	0	0	0	0	0
NEUROG3	0	0	0	0	0	0
NEXN	5,807354922	5,554588852	5,614709844	6,768184325	6,459431619	7,622051819
NF1	7,285402219	7,108524457	7,46760555	7,839203788	7,539158811	8,413627929
NF1P2	0	0	0	0	0	0
NF2	5,727920455	6	6,303780748	5,614709844	5,857980995	5,554588852
NFAM1	6,426264755	6,832890014	6,599912842	0	1,584962501	0
NFASC	0	0	0	1	1,584962501	4,64385619
NFAT5	6,95419631	6,459431619	7,022367813	6,95419631	7,06608919	7,46760555
NFATC1	7,129283017	7,276124405	7,06608919	7,62935662	7,475733431	7,46760555
NFATC2	8,214319121	8,049848549	8,30833903	8,787902559	8,77148947	8,826548487
NFATC2IP	8,299208018	8,661778098	8,54689446	8,383704292	8,535275377	8,379378367
NFATC3	7,499845887	7,400879436	7,569855608	8,124121312	8,243173983	8,049848549
NFATC4	0	0	0	0	0	0
NFE2	1,584962501	3,807354922	3,321928095	0	1,584962501	0
NFE2L1	7,434628228	7,357552005	7,592457037	7,321928095	7,087462841	7,098032083
NFE2L2	9,539158811	9,415741768	9,645658432	9,095397023	9,057991723	9,475733431
NFE2L3	6,714245518	6,62935662	6,321928095	1	3,321928095	0
NFIA	6,62935662	6,584962501	6,584962501	7,577428828	7,209453366	7,761551232
NFIB	3	2,321928095	2,584962501	4,857980995	4,95419631	5,554588852
NFIC	8,098032083	8,159871337	8,339850003	7,22881869	7,022367813	7,129283017
NFIL3	7,011227255	7,247927513	6,87036472	5,357552005	6,189824559	5,832890014
NFIX	5,044394119	4,857980995	5,357552005	5,357552005	4,807354922	5,357552005
NFKB1	8,686500527	8,50779464	8,66884984	9,002815016	8,948367232	9,326429487
NFKB2	5,426264755	5,95419631	5,523561956	7,022367813	7,139551352	7,169925001
NFKBIA	11,62021983	11,7232343	11,78545247	10,37286506	10,55554777	10,39124359
NFKBIB	5,584962501	5,857980995	5,321928095	6,321928095	6,189824559	5,832890014
NFKBID	2,584962501	2,321928095	3	3,807354922	2,321928095	2
NFKBIE	5,832890014	5,95419631	5,977279923	3,807354922	5,392317423	4,95419631

NFKBIL1	3,807354922	3	3	1	3,700439718	3,807354922
NFKBIZ	9,236014192	9,184875343	9,457380879	7,982993575	7,832890014	8,049848549
NFRKB	7,087462841	6,832890014	7,276124405	7,994353437	7,693486957	7,169925001
NFS1	5,247927513	5,087462841	4,584962501	5	4,95419631	4,64385619
NFU1	7,321928095	7,276124405	7,312882955	7,64385619	7,554588852	7,965784285
NFX1	6,614709844	6,727920455	6,303780748	7,169925001	6,942514505	7,129283017
NFXL1	5,614709844	5,727920455	6,044394119	5,754887502	6,087462841	6,06608919
NFYA	7,189824559	7,266786541	7,366322214	7,076815597	7,266786541	7,098032083
NFYB	7,442943496	7,491853096	7,348728154	7,918863237	7,977279923	7,409390936
NFYC	6,06608919	6,375039431	5,930737338	6,06608919	5,857980995	6,321928095
NGB	0	0	0	0	0	0
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NGEF	0	0	0	0	0	0
NGF	0	0	0	0	0	0
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NGLY1	7,499845887	7,348728154	7,159871337	6,95419631	7,139551352	6,62935662
NGRN	5,285402219	4,523561956	5	6,554588852	6,321928095	6,965784285
NHEJ1	2,321928095	2,321928095	1,584962501	0	0	0
NHLH1	0	0	0	2,321928095	3	4,321928095
NHLH2	5	5,285402219	5,247927513	7,303780748	7,434628228	8,144658243
NHLRC1	2,807354922	2,321928095	2,584962501	1	0	0
NHLRC2	6,62935662	6,658211483	6,554588852	6,584962501	6,247927513	7,055282436
NHLRC3	7,159871337	6,965784285	7,011227255	7,098032083	6,700439718	6,62935662
NHLRC4	1	1	2	0	0	0
NHP2	5,700439718	5,832890014	5,754887502	5,459431619	5,392317423	5,554588852
NHS	3,321928095	2,321928095	2	1	3,321928095	2
NHSL1	1	2,584962501	0	0	0	0
NHSL2	8,696967526	8,361943774	8,299208018	8,885696373	8,87958325	9,339850003
NICN1	0	0	0	0	0	0
NID1	5,832890014	5	5,554588852	0	0	3,169925001
NID2	2,321928095	0	0	0	0	3,169925001
NIF3L1	5,977279923	6,108524457	5,614709844	6,375039431	6,375039431	6,247927513
NIN	9,515699838	9,424166289	9,495855027	9,477758266	9,192292814	9,461479447
NINJ1	7,614709844	7,857980995	8,06608919	6,459431619	6,614709844	6,169925001
NINJ2	3,459431619	2,321928095	2,584962501	1	2,321928095	0
NINL	2,321928095	1	2	0	2,321928095	0
NIP7	6,087462841	6,321928095	6,108524457	6,584962501	6,50779464	6,491853096
NIPA1	6,569855608	6,22881869	6,491853096	6,459431619	6,658211483	6,06608919
NIPA2	7,21916852	7,321928095	7,442943496	7,076815597	7,266786541	7,276124405
NIPAL1	1,584962501	0	1	0	3,321928095	4,321928095
NIPAL2	4,459431619	4,321928095	4,087462841	1	2,321928095	2
NIPAL3	6,741466986	6,754887502	7,076815597	7,357552005	7,434628228	7,46760555
NIPAL4	0	0	0	0	0	0
NIPBL	10,34762137	10,23242093	10,36194377	10,47978026	10,35314683	10,54012804
NIPSNAP1	3,700439718	4,087462841	3,321928095	5,523561956	4,95419631	3,169925001
NIPSNAP3A	6,569855608	6,523561956	6,375039431	5,523561956	5,459431619	5,169925001
NIPSNAP3B	0	0	1	0	2,321928095	0
NISCH	6,189824559	6,459431619	6,700439718	6,554588852	6,247927513	6,06608919
NIT1	5,727920455	5,584962501	5,754887502	6,189824559	6,459431619	5,700439718
NIT2	6,108524457	6,209453366	6,321928095	5,832890014	6,285402219	5,832890014
NKAIN1	0	0	0	0	0	0
NKAIN2	1,584962501	0	2	2,807354922	3	2
NKAIN3	1	1	2	1	3	5,554588852
NKAIN4	0	0	0	0	0	0
NKAP	7,845490051	7,807354922	7,906890596	8,599912842	8,665335917	8,714245518
NKAPL	2,584962501	2,807354922	2,807354922	2,807354922	3,321928095	4,321928095
NKAPP1	3,807354922	3,321928095	4,523561956	4,321928095	4	3,169925001
NKD1	3	2,807354922	2,584962501	2,807354922	3	4,321928095

NKD2	0	0	0	0	0	0
NKG7	7,189824559	7,303780748	7,076815597	7,826548487	8,353146825	7,832890014
NKIRAS1	3,584962501	3,807354922	4,087462841	4,523561956	3,321928095	2
NKIRAS2	5,672425342	5,977279923	5,781359714	5,129283017	5,727920455	3,807354922
NKPD1	0	0	0	5,129283017	4	4,64385619
NKRF	6,087462841	5,832890014	5,930737338	6,882643049	6,189824559	6,321928095
NKTR	10,25620869	10,27496047	10,52552081	10,52160044	10,20823436	10,31061278
NKX1-2	0	0	0	0	0	0
NKX2-1	0	0	0	0	0	0
NKX2-2	0	0	0	0	0	0
NKX2-3	0	0	0	0	0	0
NKX2-4	0	0	0	0	0	0
NKX2-5	0	0	0	0	0	0
NKX2-6	0	0	0	0	0	0
NKX2-8	0	0	0	0	0	0
NKX3-1	1	0	0	1	3	0
NKX3-2	0	0	0	0	0	0
NKX6-1	0	0	0	0	0	0
NKX6-2	0	0	0	0	0	0
NKX6-3	0	0	0	0	0	0
NLE1	3	2,807354922	3,169925001	0	3,321928095	0
NLGN1	3,807354922	1	2,584962501	2,807354922	4	4,64385619
NLGN2	1	0	1	1	1,584962501	0
NLGN3	1,584962501	2,321928095	0	3,807354922	4,247927513	4,64385619
NLGN4X	1	0	0	0	0	0
NLGN4Y	2,321928095	1,584962501	1	0	3	0
NLK	6,044394119	5,95419631	5,129283017	5,754887502	5,727920455	4,95419631
NLN	7,348728154	7,276124405	7,21916852	5,129283017	6,044394119	7,247927513
NLRC3	6,988684687	6,554588852	6,781359714	7,303780748	6,768184325	6,882643049
NLRC4	5,930737338	5,584962501	6,189824559	3,321928095	0	2
NLRC5	7,851749041	8,055282436	8,092757141	8,751544059	8,54689446	8,87036472
NLRP1	7,787902559	7,781359714	7,977279923	8,357552005	7,62935662	7,46760555
NLRP10	0	0	0	0	0	0
NLRP11	0	0	0	0	0	0
NLRP12	2,584962501	1,584962501	2,807354922	3,807354922	2,321928095	4,64385619
NLRP13	0	0	0	0	0	0
NLRP14	0	0	0	0	0	0
NLRP2	0	2,807354922	2,584962501	5,129283017	4	3,169925001
NLRP3	6,14974712	6,357552005	5,95419631	1	3,321928095	0
NLRP4	0	0	0	0	0	0
NLRP5	0	0	0	0	0	0
NLRP6	0	0	0	0	0	0
NLRP7	1	0	1,584962501	0	0	0
NLRP8	0	0	0	0	0	0
NLRP9	0	0	0	0	0	0
NLRX1	2,321928095	2,321928095	2	0	1,584962501	0
NMB	2,584962501	2,807354922	3,584962501	4,523561956	3,321928095	0
NMBR	0	0	0	0	0	0
NMD3	6,247927513	6,50779464	6,426264755	6,189824559	6,189824559	5,554588852
NME1	5,700439718	5,882643049	6	5,700439718	5,930737338	5,832890014
NME1-NME2	0	0	0	0	0	0
NME2	1,584962501	0	0	0	0	0
NME3	4,754887502	4,700439718	4,392317423	3,807354922	5,727920455	5,169925001
NME4	4,321928095	2,584962501	4,247927513	2,321928095	4,247927513	0
NME5	0	0	0	2,807354922	0	2
NME6	4,321928095	4,857980995	4,857980995	5,459431619	5,392317423	6,06608919
NME7	4,64385619	4,459431619	5,129283017	5,357552005	5,64385619	5,95419631
NME9	0	0	0	0	1,584962501	0

NMI	8,864186145	8,661778098	8,569855608	7,876516947	8,022367813	7,894817763
NMNAT1	4	4,321928095	4,087462841	4,321928095	4,459431619	3,807354922
NMNAT2	0	0	0	0	0	2
NMNAT3	1,584962501	1	1	0	2,321928095	0
NMRAL1	4,64385619	4,321928095	4,459431619	4,087462841	4,459431619	0
NMS	0	0	0	0	0	0
NMT1	8	8,317412614	8,707359132	8,622051819	8,625708843	8,413627929
NMT2	6,781359714	7	7,459431619	7,22881869	7,108524457	7,442943496
NMU	0	0	0	0	0	0
NMUR1	2,584962501	2,807354922	1	0	0	2
NMUR2	0	0	0	0	2,321928095	0
NNAT	0	0	0	1	0	0
NNMT	0	0	0	0	0	0
NNT	7,515699838	7,392317423	7,577428828	7,592457037	7,321928095	6,754887502
NOA1	6,108524457	5,882643049	5,977279923	7,076815597	7,087462841	6,247927513
NOB1	6,906890596	6,727920455	6,906890596	7,754887502	7,17990909	7,312882955
NOBOX	0	0	0	0	0	0
NOC2L	4,95419631	4,584962501	4,523561956	5	5,285402219	3,169925001
NOC3L	6,906890596	6,965784285	6,727920455	7,531381461	7,139551352	7,491853096
NOC4L	3,459431619	3,169925001	1	0	2,321928095	0
NOD1	4,523561956	4,523561956	5,169925001	2,807354922	3,321928095	0
NOD2	5,906890596	5,857980995	5,129283017	4,087462841	4,64385619	3,169925001
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NOG	6,781359714	6,882643049	7,118941073	7,930737338	7,781359714	8,087462841
NOL10	7,076815597	6,741466986	6,832890014	7,357552005	7,366322214	7,741466986
NOL11	7,375039431	7,515699838	7,108524457	7,700439718	7,707359132	7,741466986
NOL12	4,95419631	4,64385619	4,584962501	4,321928095	4,247927513	2
NOL3	3,321928095	1	2,807354922	3,321928095	1,584962501	3,169925001
NOL4	3	3,584962501	3	5,614709844	5,857980995	6,62935662
NOL6	4,584962501	4,64385619	4,459431619	4,321928095	4	3,807354922
NOL7	8,326429487	8,17990909	7,936637939	7,672425342	8,14974712	7,918863237
NOL8	8,654636029	8,451211112	8,550746785	8,731319031	8,339850003	8,826548487
NOL9	6,977279923	7,247927513	7,247927513	8,087462841	7,924812504	8,159871337
NOLC1	7,651051691	7,562242424	7,607330314	8,199672345	8,071462363	8,087462841
NOM1	7,209453366	7,392317423	7,22881869	7,614709844	7,400879436	7,442943496
NOMO1	3,584962501	2,584962501	3	2,807354922	1,584962501	3,169925001
NOMO2	1	0	0	0	0	0
NOMO3	0	0	0	0	0	0
NONO	9,413627929	9,501837185	9,726218159	9,911391988	9,878050913	9,970105891
NOP10	8,262094845	8,118941073	8,164906927	6,977279923	7,108524457	6,754887502
NOP14	7,787902559	7,475733431	7,781359714	8,011227255	7,982993575	7,741466986
NOP14-AS1	4,247927513	3,169925001	2,584962501	4,700439718	4,247927513	6,06608919
NOP16	6,554588852	6,807354922	6,554588852	6,794415866	7,159871337	6,882643049
NOP2	3,906890596	2,807354922	4,087462841	3,321928095	5,087462841	2
NOP56	7,491853096	7,257387843	7,554588852	7,303780748	7,312882955	7,129283017
NOP58	9,216745858	8,991521846	9,016808288	9,73978061	9,539158811	9,873444113
NOS1	0	1,584962501	0	4,700439718	5,087462841	2
NOS1AP	0	0	0	0	0	2
NOS2	0	0	0	0	0	0
NOS3	0	0	0	0	0	0
NOSIP	6,247927513	6,14974712	6,614709844	6,882643049	6,918863237	6,754887502
NOSTRIN	1	2,321928095	2	4,087462841	4,95419631	5,357552005
NOTCH1	7,21916852	7,451211112	7,321928095	6,554588852	6,741466986	6,882643049
NOTCH2	8,189824559	7,832890014	7,813781191	7,247927513	7,044394119	6,930737338
NOTCH3	0	1	1,584962501	1	0	2
NOTCH4	1	1	2,807354922	2,321928095	1,584962501	3,169925001
NOTO	0	0	1	0	0	0
NOTUM	0	0	0	0	0	0

NOV	0	0	0	0	0	0
NOVA1	1,584962501	2,321928095	2	3,807354922	4,807354922	5,700439718
NOVA2	0	0	0	0	3	3,169925001
NOX1	0	0	0	0	0	0
NOX3	0	0	0	0	2,321928095	0
NOX4	1	0	0	0	0	3,169925001
NOX5	0	0	0	0	0	0
NOXA1	0	0	1	0	0	0
NOXO1	0	0	0	0	0	0
NOXRED1	0	1	2	5,129283017	2,321928095	0
NPAS1	0	0	0	0	0	0
NPAS2	2,321928095	2,584962501	1	0	0	3,169925001
NPAS3	3	3,807354922	3,169925001	6,584962501	6,321928095	6,491853096
NPAS4	0	0	0	0	0	0
NPAT	7,483815777	7,348728154	7,383704292	8,033423002	7,888743249	8,159871337
NPB	0	0	0	0	0	0
NPBWR1	0	0	0	0	0	0
NPBWR2	0	0	0	0	0	0
NPC1	6,475733431	6,539158811	6,584962501	7,409390936	7,451211112	7,64385619
NPC1L1	0	0	0	2,807354922	2,321928095	5,554588852
NPC2	10,00842862	10,22641219	9,962896005	7,357552005	7,672425342	7,312882955
NPDC1	3	3,906890596	3,169925001	3,321928095	4,247927513	0
NPEPL1	4	5,129283017	5,129283017	3,321928095	4,64385619	4,321928095
NPEPP5	8,071462363	8,016808288	8,17990909	7,491853096	7,569855608	7,348728154
NPFF	0	0	0	0	0	0
NPFFR1	0	1	1	2,807354922	1,584962501	0
NPFFR2	0	0	0	0	0	0
NPHP1	1	1,584962501	1,584962501	4,087462841	3,700439718	4,321928095
NPHP3	6,392317423	6,459431619	6,169925001	6,658211483	7,022367813	6,321928095
NPHP3-AS1	0	0	0	0	0	0
NPHP4	4,392317423	4,754887502	4,169925001	3,321928095	4,247927513	3,169925001
NPHS1	0	0	0	0	0	0
NPHS2	0	0	0	0	0	0
NPL	8,13442632	8,238404739	8,098032083	4,321928095	3,700439718	3,169925001
NPLOC4	6,108524457	6,169925001	6,285402219	6,95419631	6,321928095	6,06608919
NPM1	9,618385502	9,805743872	9,764871591	10,34318572	10,47978026	10,42836017
NPM2	1	0	1	2,321928095	2,321928095	5,169925001
NPM3	4,754887502	5,64385619	5,727920455	6,06608919	6,321928095	6,409390936
NPNT	0	0	0	1	1,584962501	2
NPPA	0	0	0	0	0	0
NPPB	0	0	0	0	1,584962501	0
NPPC	0	0	0	0	0	0
NPR1	0	0	0	0	0	2
NPR2	4,392317423	4,087462841	2,807354922	5	3,700439718	5,554588852
NPR3	1	0	1	3,807354922	3,700439718	5,95419631
NPRL2	5,169925001	5,781359714	5,321928095	6,409390936	5,977279923	6,06608919
NPRL3	4,392317423	4,392317423	4	3,321928095	4,459431619	3,169925001
NPS	0	0	0	0	0	0
NPSR1	0	0	0	0	0	0
NPTN	9,562242424	9,5980525	9,558420713	7,994353437	8,266786541	7,539158811
NPTX1	0	1	2,584962501	2,807354922	3,700439718	3,807354922
NPTX2	0	0	0	0	0	0
NPTXR	4,523561956	5,129283017	4,906890596	4,700439718	4,64385619	0
NPVF	0	0	0	2,321928095	3	4,321928095
NPW	0	0	0	0	0	0
NPY	0	0	0	0	0	0
NPY1R	0	0	0	0	0	0
NPY2R	0	0	0	0	0	0

NPY5R	0	0	0	0	0	0
NPY6R	0	0	0	0	0	0
NQO1	4,857980995	5,044394119	4,64385619	4,321928095	4	3,807354922
NQO2	5,247927513	4,087462841	5	3,807354922	3,321928095	3,169925001
NROB1	0	0	0	0	0	0
NROB2	0	0	0	0	0	0
NR1D1	2,584962501	1	2,807354922	0	2,321928095	0
NR1D2	7,303780748	7,375039431	7,392317423	7,906890596	7,942514505	8,159871337
NR1H2	5,169925001	5,087462841	5,044394119	3,807354922	4,247927513	0
NR1H3	3,700439718	4,169925001	3,906890596	4,087462841	3,321928095	3,807354922
NR1H4	0	0	0	0	0	0
NR1I2	0	0	0	0	0	0
NR1I3	0	0	1	0	0	2
NR2C1	6,375039431	6,303780748	6,523561956	7,14974712	6,807354922	6,965784285
NR2C2	7,672425342	7,74819285	7,693486957	8,487840034	8,447083226	8,447083226
NR2C2AP	3,906890596	4,087462841	4,459431619	4,700439718	5,392317423	4,321928095
NR2E1	0	0	0	0	0	0
NR2E3	0	0	0	0	2,321928095	3,169925001
NR2F1	0	1	0	0	1,584962501	2
NR2F2	2,807354922	4	3,700439718	5,754887502	5,857980995	7,055282436
NR2F6	1,584962501	1	1,584962501	1	0	0
NR3C1	9,667111542	9,724513853	9,611024797	10,24555271	10,203348	10,23002044
NR3C2	5,882643049	6,209453366	6,06608919	6,266786541	6,375039431	6,700439718
NR4A1	1,584962501	3,321928095	3	4,321928095	4,64385619	3,169925001
NR4A2	6,894817763	6,845490051	6,475733431	7,499845887	7,22881869	7,672425342
NR4A3	5,129283017	5,044394119	4,523561956	4,087462841	4,459431619	3,807354922
NR5A1	0	0	0	0	0	0
NR5A2	0	0	0	0	2,321928095	2
NR6A1	3,807354922	3,169925001	2,584962501	1	1,584962501	0
NRADDP	1	1,584962501	0	0	0	0
NRAP	1	0	1,584962501	1	0	0
NRARP	0	0	0	0	0	0
NRAS	7,965784285	7,73470962	7,658211483	6,906890596	7,108524457	6,700439718
NRBF2	7,247927513	7,400879436	7,321928095	6,658211483	6,409390936	6,169925001
NRBP1	7,055282436	7,238404739	7,303780748	6,459431619	7,06608919	6,491853096
NRBP2	4,64385619	3	3,906890596	2,807354922	1,584962501	0
NRCAM	1,584962501	3,700439718	2,584962501	3,321928095	3,321928095	3,169925001
NREP	3	4,64385619	3,169925001	2,321928095	3	0
NRF1	5,491853096	5,129283017	5,672425342	5,882643049	6,50779464	6,409390936
NRG1	3,807354922	3,807354922	3,807354922	0	0	0
NRG2	0	0	2	1	0	0
NRG3	0	0	0	0	0	0
NRG4	0	0	0	3,321928095	1,584962501	3,807354922
NRGN	5,044394119	4,906890596	5,129283017	6,882643049	6,918863237	7,011227255
NRIP1	7,936637939	7,845490051	7,74819285	7,247927513	7,22881869	7,276124405
NRIP2	0	0	0	0	0	0
NRIP3	4,169925001	3,906890596	3,700439718	4,087462841	3,700439718	0
NRK	0	1,584962501	0	2,321928095	1,584962501	2
NRL	2,584962501	1,584962501	0	1	0	0
NRM	4	4,321928095	4,169925001	0	3,321928095	0
NRN1	3,700439718	3,321928095	3,321928095	0	0	0
NRN1L	0	0	0	0	1,584962501	0
NRON	0	0	0	0	0	0
NRP1	6	6,044394119	5,727920455	1	1,584962501	4,64385619
NRP2	7,54689446	7,087462841	7,357552005	4,523561956	4,459431619	4,321928095
NRSN1	0	0	0	0	0	0
NRSN2	0	1	0	0	0	0
NRTN	0	0	0	0	0	0

NRXN1	3,321928095	3,169925001	2	5	4,247927513	5,700439718
NRXN2	1	0	0	2,321928095	3	5,554588852
NRXN3	0	1	2	1	3,321928095	3,807354922
NSA2	9,605479518	9,491853096	9,407267764	10,41151099	10,34651373	10,43671154
NSD1	8,247927513	7,982993575	8,144658243	8,087462841	7,781359714	8,290018847
NSDHL	4,700439718	4,95419631	4,392317423	0	3	2
NSF	7,491853096	7,50779464	6,988684687	6,845490051	6,539158811	6,882643049
NSFL1C	6,894817763	6,741466986	7,098032083	6,584962501	6,247927513	6,569855608
NSFP1	0	0	0	0	0	0
NSL1	7,965784285	7,971543554	7,930737338	7,982993575	7,876516947	7,761551232
NSMAF	7,965784285	7,87036472	8,044394119	7,531381461	7,475733431	7,055282436
NSMCE1	6,375039431	6	5,426264755	6,459431619	6,247927513	6,491853096
NSMCE2	6,50779464	6,672425342	6,22881869	6,820178962	6,700439718	6,820178962
NSMCE4A	6,95419631	7	6,95419631	7,357552005	7,22881869	7,011227255
NSRP1	8,290018847	8,118941073	8,430452552	8,885696373	8,413627929	8,915879379
NSUN2	8,45532722	8,539158811	8,475733431	8,962896005	8,971543554	9,071462363
NSUN3	5,95419631	5,584962501	5,807354922	5,247927513	5,285402219	4,64385619
NSUN4	5,807354922	5,727920455	5,321928095	5	5,169925001	5,554588852
NSUN5	6,303780748	6,658211483	6,672425342	7,189824559	7,108524457	6,754887502
NSUN5P1	3	3,169925001	2,584962501	5,614709844	4,247927513	5,357552005
NSUN5P2	4,64385619	4,754887502	4,169925001	6,768184325	4,807354922	5,95419631
NSUN6	6,491853096	6,209453366	6,321928095	7,442943496	7,139551352	7,562242424
NSUN7	2,807354922	0	2	0	0	3,807354922
NT5C	5,285402219	5,087462841	5,044394119	5,882643049	5,169925001	4,95419631
NT5C1A	0	0	0	0	0	0
NT5C1B	0	0	0	1	0	0
NT5C1B-RDH14	0	0	0	0	0	0
NT5C2	7,108524457	7,50779464	7,74819285	7,475733431	7,539158811	6,965784285
NT5DC1	7,266786541	7,409390936	7,312882955	7,339850003	7,139551352	6,930737338
NT5DC2	3	2,584962501	2,584962501	1	0	3,807354922
NT5DC3	3	3,321928095	3,584962501	1	1,584962501	4,321928095
NT5E	4,523561956	4,700439718	4,392317423	6,06608919	5,781359714	5,832890014
NT5M	2,321928095	1	0	0	0	0
NTAN1	5,727920455	5,672425342	5,523561956	5,247927513	5,169925001	5,169925001
NTF3	0	0	0	1	0	0
NTF4	0	0	0	0	0	0
NTHL1	0	2,807354922	2,584962501	2,321928095	0	0
NTM	2,321928095	1,584962501	1	1	3,321928095	3,807354922
NTN1	0	0	0	0	0	0
NTN3	0	0	0	0	0	0
NTN4	3	1,584962501	2,584962501	2,807354922	1,584962501	3,169925001
NTN5	0	1	0	0	0	0
NTNG1	1	1	1	2,321928095	4	4,321928095
NTNG2	4,247927513	3,169925001	4,247927513	4,857980995	4,64385619	0
NTPCR	6,247927513	6,357552005	6,266786541	6,22881869	6,375039431	5,95419631
NTRK1	0	0	0	0	1,584962501	0
NTRK2	2,584962501	2,807354922	2	5,614709844	5,781359714	5,832890014
NTRK3	3	2,584962501	2,584962501	6,06608919	5,392317423	6,06608919
NTS	0	0	0	0	0	0
NTSR1	0	0	0	0	0	0
NTSR2	0	0	0	0	0	0
NUAK1	3,700439718	3,807354922	3,169925001	4,087462841	4	3,169925001
NUAK2	5,209453366	5,129283017	5,129283017	5,357552005	5,392317423	3,807354922
NUB1	9,370687407	9,136991112	9,197216693	8,625708843	8,693486957	8,447083226
NUBP1	6,022367813	6,209453366	6,321928095	5,459431619	5,087462841	3,807354922
NUBP2	5,700439718	6,14974712	5,807354922	6,06608919	6,50779464	6,06608919
NUBPL	5	5,247927513	5,129283017	6,375039431	6,087462841	5,554588852
NUCB1	6,832890014	6,807354922	7,011227255	5,930737338	5,781359714	5,357552005

NUCB2	9,060695932	8,903881846	8,873444113	8,897845456	8,693486957	8,77807713
NUCKS1	10,64295422	10,69609817	10,76652891	10,90839262	10,9505559	10,96794671
NUDC	5,426264755	5,807354922	5,426264755	5,832890014	6,459431619	6,247927513
NUDCD1	6,539158811	6,392317423	6,614709844	6,50779464	6,658211483	6,700439718
NUDCD2	7,257387843	7,257387843	7,247927513	7,475733431	7,491853096	7,672425342
NUDCD3	6,426264755	6,303780748	6,672425342	6,977279923	6,965784285	6,700439718
NUDT1	5,247927513	5,169925001	5,614709844	3,321928095	4,95419631	3,169925001
NUDT10	0	0	0	0	0	0
NUDT11	2,321928095	2,584962501	1,584962501	2,321928095	0	0
NUDT12	1,584962501	1	2	0	0	0
NUDT13	3	2,807354922	1,584962501	0	0	0
NUDT14	3,321928095	3	2,584962501	2,321928095	0	0
NUDT15	5,95419631	6,209453366	6,339850003	4,321928095	3,700439718	2
NUDT16	6,392317423	6,14974712	6,108524457	4,087462841	4,95419631	0
NUDT16L1	7,451211112	7,392317423	7,17990909	7,022367813	7,348728154	6,06608919
NUDT16P1	2,807354922	0	1,584962501	0	0	0
NUDT17	2,584962501	3,584962501	2,807354922	4,523561956	4	2
NUDT18	2,584962501	3,169925001	2,584962501	0	3	0
NUDT19	5,95419631	4,857980995	4,700439718	5,247927513	5,64385619	3,807354922
NUDT2	4,459431619	4,584962501	3,906890596	5	5,554588852	4,95419631
NUDT21	9,087462841	9,192292814	8,82336724	9,426264755	9,407267764	9,326429487
NUDT22	5,930737338	5,64385619	6,108524457	4,857980995	5,554588852	5,554588852
NUDT3	7,451211112	7,400879436	7,523561956	7,266786541	6,857980995	7,46760555
NUDT4	7,06608919	7,569855608	7,592457037	7,475733431	7,417852515	7,515699838
NUDT5	6,857980995	6,392317423	7,199672345	6,95419631	6,50779464	6,700439718
NUDT6	2,807354922	3	2	0	2,321928095	3,169925001
NUDT7	2,807354922	2,807354922	2	1	0	0
NUDT8	0	1	0	0	0	0
NUDT9	5,807354922	5,64385619	5,672425342	5,459431619	5,459431619	6,06608919
NUF2	4,247927513	3,807354922	3,906890596	4,523561956	4,459431619	4,64385619
NUFIP1	4,906890596	4,584962501	4,754887502	3,807354922	5,392317423	3,807354922
NUFIP2	9,477758266	9,252665432	9,17990909	9,103287808	8,857980995	9,041659152
NUMA1	8,724513853	8,991521846	9,252665432	9,221587121	9,011227255	9,095397023
NUMB	8,14974712	8,14974712	8,361943774	7,475733431	7,614709844	7,622051819
NUMBL	3,459431619	3,700439718	4,087462841	4,523561956	4,95419631	5,554588852
NUP107	7,672425342	7,761551232	7,73470962	7,727920455	7,707359132	8,033423002
NUP133	6,942514505	6,832890014	6,820178962	6,768184325	7,022367813	7,011227255
NUP153	6,781359714	6,918863237	6,781359714	8,124121312	8,033423002	8,049848549
NUP155	6,14974712	6,169925001	6,189824559	6,584962501	6,459431619	6,754887502
NUP160	6,392317423	6,523561956	6,426264755	6,794415866	6,539158811	6,409390936
NUP188	6,539158811	6,169925001	6,475733431	6,189824559	5,459431619	4,321928095
NUP205	6,930737338	7	7,098032083	7,614709844	7,348728154	7,312882955
NUP210	7	7,459431619	7,658211483	8,330916878	8,033423002	8,299208018
NUP210L	1	1,584962501	1	2,807354922	3,321928095	4,321928095
NUP210P1	0	0	0	0	0	0
NUP214	7,139551352	7,209453366	7,515699838	7,129283017	7,139551352	7,312882955
NUP35	5,977279923	5,614709844	6,129283017	6,409390936	6,459431619	6,491853096
NUP37	6,392317423	6	6,169925001	6,06608919	6,584962501	6,754887502
NUP43	6,988684687	7,055282436	7,159871337	7,392317423	6,882643049	7,515699838
NUP50	8,204571144	8,335390355	8,194756854	9,063395081	8,962896005	9,21916852
NUP54	6,87036472	6,658211483	7,098032083	7,375039431	7,62935662	7,832890014
NUP62	7,930737338	8,214319121	8,294620749	7,906890596	7,832890014	8,129283017
NUP62CL	0	0	1,584962501	0	1,584962501	0
NUP85	7,434628228	7,312882955	7,54689446	7,672425342	7,451211112	7,977279923
NUP88	6,741466986	6,614709844	6,129283017	7,303780748	7,451211112	7,515699838
NUP93	7,139551352	7,599912842	7,569855608	6,906890596	7,523561956	7,247927513
NUP98	7,491853096	7,761551232	7,754887502	7,864186145	8,011227255	8,016808288
NUPL2	5,807354922	5,392317423	5,672425342	6,459431619	5,64385619	5,95419631

NUPR1	2,321928095	3	2	0	0	0
NUS1	6,14974712	5,930737338	5,459431619	6,129283017	6,285402219	5,700439718
NUSAP1	3	3,584962501	2,807354922	1	1,584962501	3,169925001
NUTF2	5,95419631	6,375039431	6,108524457	5,614709844	6,375039431	5,95419631
NVL	6,339850003	6,044394119	5,906890596	6,794415866	6,50779464	6,62935662
NWD1	0	0	0	1	3	2
NXF1	7,714245518	7,658211483	8,060695932	7,971543554	7,794415866	7,64385619
NXF2	0	0	0	0	0	0
NXF2B	0	0	0	0	0	0
NXF3	0	0	0	0	0	0
NXF4	0	0	0	0	0	0
NXF5	0	0	0	0	0	0
NXN	1	0	0	0	0	0
NXNL1	0	0	0	0	0	0
NXNL2	0	1,584962501	0	1	2,321928095	4,321928095
NXPH1	0	0	0	0	0	0
NXPH2	0	0	0	1	0	0
NXPH3	0	0	0	0	0	0
NXPH4	2,321928095	2,807354922	3	2,807354922	3	3,807354922
NXT1	6,129283017	6,442943496	6,523561956	5,882643049	6,044394119	6,247927513
NXT2	7,21916852	7,209453366	7,022367813	6,50779464	6,459431619	5,95419631
NYAP1	0	0	0	0	0	0
NYAP2	0	0	0	1	0	3,169925001
NYNRIN	0	0	0	0	0	0
NYX	0	0	0	0	0	0
OAF	5,129283017	5,459431619	4,906890596	0	0	0
OAS1	6,491853096	6,266786541	6,554588852	3,321928095	5,087462841	5,700439718
OAS2	7,139551352	7,584962501	7,434628228	7,129283017	6,807354922	7,011227255
OAS3	6,50779464	6,303780748	6,266786541	5,357552005	4,459431619	3,169925001
OASL	3,584962501	3,584962501	4,087462841	4,700439718	4,807354922	2
OAT	7,339850003	7,17990909	7,022367813	6,129283017	6,614709844	5,95419631
OAZ1	11,25620869	11,28019079	11,36358725	10,81618368	10,90162116	10,78953364
OAZ2	7,357552005	7,6794801	8,022367813	5,357552005	6,700439718	6,409390936
OAZ3	0	0	0	1	0	0
OBP2A	0	0	0	0	0	0
OBP2B	0	0	0	0	0	0
OBSCN	3,321928095	3,321928095	3	3,321928095	3	0
OBSL1	0	1	0	0	0	0
OC90	0	0	0	0	0	0
OCA2	1,584962501	1	1,584962501	0	0	0
OCEL1	4,169925001	4,087462841	4,247927513	3,321928095	1,584962501	0
OCIAD1	9,501837185	9,495855027	9,276124405	9,853309555	9,807354922	9,818582177
OCIAD2	6,247927513	6,539158811	6,06608919	7,906890596	7,900866808	7,942514505
OCLM	0	0	0	0	0	2
OCN	0	0	0	0	0	0
OCM	0	0	1	1	0	3,807354922
OCM2	0	0	0	0	0	0
OCRL	5,044394119	4,64385619	4,754887502	3,807354922	1,584962501	0
ODAM	0	0	0	3,807354922	1,584962501	2
ODC1	7,599912842	7,442943496	7,22881869	7,864186145	8,011227255	8,087462841
ODF1	0	0	0	0	0	0
ODF2	5,807354922	6,044394119	5,930737338	5,247927513	4,95419631	4,95419631
ODF2L	8,011227255	8,071462363	8,409390936	8,033423002	7,721099189	7,918863237
ODF3	0	0	0	0	0	0
ODF3B	2,807354922	3,906890596	4	0	0	0
ODF3L1	0	0	0	0	0	0
ODF3L2	0	0	0	0	0	0
ODF4	0	0	0	0	0	0

OFD1	8,636624621	8,475733431	8,622051819	9,182394353	8,700439718	9,400879436
OGDH	6,022367813	5,64385619	5,95419631	4,857980995	5,64385619	4,321928095
OGDHL	0	0	0	0	0	0
OGFOD1	6,22881869	6,442943496	6,266786541	7	7,366322214	7,46760555
OGFOD2	0	0	0	0	0	0
OGFR	6,554588852	6,727920455	7,383704292	6,906890596	6,807354922	6,820178962
OGFRL1	7,651051691	7,569855608	7,754887502	5	5,781359714	4,321928095
OGG1	5,491853096	5,426264755	5,554588852	5,882643049	5,554588852	5,169925001
OGN	1,584962501	0	1,584962501	0	0	0
OGT	9,076815597	8,885696373	8,97441459	9,836050355	9,375039431	9,853309555
OIP5	3,584962501	2,807354922	0	1	0	3,169925001
OIP5-AS1	9,121533517	9,108524457	9,236014192	9,177419538	8,971543554	9,364134655
OIT3	0	0	0	0	0	0
OLA1	6,392317423	6,209453366	5,584962501	6,459431619	6,658211483	5,700439718
OLAH	0	0	0	0	1,584962501	0
OLFM1	5,930737338	6	5,426264755	2,321928095	2,321928095	2
OLFM2	0	0	0	0	0	0
OLFM3	1	0	0	2,321928095	0	2
OLFM4	4,247927513	2,584962501	3	2,807354922	4,459431619	0
OLFML1	0	0	0	0	0	0
OLFML2A	0	0	0	0	0	0
OLFML2B	2,321928095	3	2,584962501	0	0	0
OLFML3	0	0	0	0	0	0
OLIG1	3,700439718	2,807354922	3,169925001	0	0	2
OLIG2	0	0	0	0	0	0
OLIG3	0	0	0	0	0	0
OLR1	7,392317423	7,614709844	6,882643049	0	4	0
OMA1	6,988684687	6,50779464	6,857980995	7,614709844	7,266786541	7,64385619
OMD	0	0	0	0	0	0
OMG	2,584962501	1	1	2,321928095	1,584962501	2
OMP	0	0	0	0	0	0
ONECUT1	0	0	0	0	0	0
ONECUT2	2,584962501	1	2,584962501	4,087462841	4	5,832890014
ONECUT3	0	0	0	0	1,584962501	0
OOEP	0	0	0	0	0	0
OPA1	7,781359714	7,577428828	7,442943496	7,851749041	7,864186145	7,761551232
OPA3	5,426264755	5,285402219	5,357552005	4,700439718	5,169925001	5,700439718
OPALIN	0	0	0	1	0	0
OPCML	0	0	0	0	0	0
OPHN1	0	2,584962501	0	0	0	0
OPLAH	3	2,584962501	3,321928095	0	0	0
OPN1LW	0	0	0	0	0	0
OPN1MW	0	0	0	0	0	0
OPN1MW2	0	0	0	0	0	0
OPN1SW	0	0	0	0	0	0
OPN3	7,339850003	7,339850003	7,076815597	6,375039431	6,189824559	5,554588852
OPN4	0	0	0	0	0	0
OPN5	0	0	0	0	0	0
OPRD1	0	0	0	0	0	0
OPRK1	0	0	0	0	0	0
OPRL1	1	1,584962501	0	0	2,321928095	3,169925001
OPRM1	1	3,321928095	2,584962501	3,321928095	4,807354922	5,169925001
OPTC	0	0	0	0	0	0
OPTN	8,614709844	8,562242424	8,73809226	9,13442632	9,226412193	8,927777962
OR10A2	0	0	0	0	0	2
OR10A3	0	0	0	0	0	0
OR10A4	0	0	0	0	0	0
OR10A5	0	0	0	0	0	0

OR10A6	1	1,584962501	0	2,321928095	4	5,169925001
OR10A7	0	0	0	0	0	0
OR10AD1	0	0	0	0	0	0
OR10AG1	0	0	0	0	0	0
OR10C1	0	0	0	0	0	0
OR10G2	0	0	0	0	0	0
OR10G3	0	0	0	0	0	0
OR10G4	0	0	0	0	0	0
OR10G7	0	0	0	0	0	0
OR10G8	0	0	0	0	0	0
OR10G9	0	0	0	0	0	0
OR10H1	0	0	0	0	0	0
OR10H2	0	0	0	0	0	0
OR10H3	0	0	0	0	0	0
OR10H4	0	0	0	0	0	0
OR10H5	0	0	1	2,807354922	1,584962501	0
OR10J1	0	0	0	1	2,321928095	2
OR10J3	0	0	0	0	0	0
OR10J5	0	0	0	0	0	0
OR10K1	1	0	0	2,321928095	2,321928095	0
OR10K2	0	0	0	2,321928095	0	0
OR10P1	0	0	0	0	0	0
OR10Q1	0	0	0	0	0	0
OR10R2	0	0	0	0	0	0
OR10S1	0	0	0	0	0	0
OR10T2	0	0	0	0	0	0
OR10V1	0	0	0	0	0	0
OR10V2P	0	0	0	0	0	0
OR10W1	0	0	0	0	0	0
OR10X1	0	0	0	0	0	0
OR10Z1	1	0	0	0	1,584962501	3,169925001
OR11A1	0	0	0	0	0	2
OR11G2	1	1,584962501	1	5,247927513	4	5,832890014
OR11H1	0	0	0	0	0	0
OR11H12	0	0	0	0	0	0
OR11H2	0	0	0	0	0	0
OR11H4	0	0	0	0	0	0
OR11H6	0	0	0	0	0	0
OR11L1	0	0	0	0	0	0
OR12D2	0	0	0	0	0	0
OR12D3	0	0	0	0	0	0
OR13A1	0	0	1	0	0	2
OR13C2	0	0	0	0	0	0
OR13C3	0	0	0	0	0	0
OR13C4	0	0	0	0	0	0
OR13C5	0	0	0	0	0	0
OR13C8	0	0	0	0	0	0
OR13C9	0	0	0	0	0	0
OR13D1	0	0	0	0	0	0
OR13F1	0	0	0	0	0	0
OR13G1	0	0	0	0	0	0
OR13H1	0	0	0	0	0	0
OR13J1	0	0	0	0	0	0
OR14A16	0	0	0	0	1,584962501	0
OR14C36	0	0	0	0	0	0
OR14I1	0	0	0	0	0	0
OR14J1	0	0	0	0	0	0
OR1A1	0	0	0	3,321928095	0	4,321928095

OR1A2	0	0	0	0	0	0
OR1B1	0	0	0	0	0	0
OR1C1	0	0	0	0	0	0
OR1D2	2,321928095	1	1	2,807354922	1,584962501	4,321928095
OR1D4	0	0	0	0	0	0
OR1D5	0	0	0	0	0	0
OR1E1	0	0	0	0	0	0
OR1E2	0	0	0	0	0	0
OR1F1	0	0	0	0	0	0
OR1F2P	0	0	0	0	0	0
OR1G1	0	0	0	0	0	0
OR1I1	0	0	0	0	0	2
OR1J1	0	0	0	0	0	0
OR1J2	0	0	0	0	0	0
OR1J4	0	0	0	0	0	0
OR1K1	0	0	0	0	0	0
OR1L1	0	0	0	0	0	0
OR1L3	0	0	0	0	0	0
OR1L4	0	0	0	0	0	0
OR1L6	0	0	0	0	0	0
OR1L8	0	0	0	0	0	0
OR1M1	0	0	0	0	0	0
OR1N1	0	0	0	0	0	0
OR1N2	0	0	0	0	2,321928095	3,807354922
OR1Q1	0	0	0	0	0	0
OR1S1	0	0	0	0	0	0
OR1S2	0	0	0	0	0	0
OR2A1	0	0	0	0	0	0
OR2A12	1,584962501	2,584962501	2	4,321928095	4	5,169925001
OR2A14	0	0	0	0	0	0
OR2A2	0	0	0	0	0	0
OR2A20P	0	0	0	0	0	0
OR2A25	0	1	0	0	1,584962501	2
OR2A4	0	0	0	0	0	0
OR2A42	0	0	0	0	0	0
OR2A5	1,584962501	0	1	0	0	0
OR2A7	0	0	0	0	0	0
OR2A9P	0	0	0	0	0	0
OR2AE1	0	0	0	0	0	0
OR2AG1	1,584962501	0	0	2,321928095	0	0
OR2AG2	0	0	0	0	0	0
OR2AK2	0	0	0	0	0	0
OR2AT4	1	0	0	0	0	0
OR2B11	0	0	0	0	0	0
OR2B2	0	0	0	0	0	0
OR2B3	0	0	0	0	0	0
OR2B6	0	0	0	0	1,584962501	0
OR2C1	0	0	0	0	0	0
OR2C3	0	0	1,584962501	1	2,321928095	3,807354922
OR2D2	0	0	0	0	0	0
OR2D3	0	0	0	0	0	0
OR2F1	1	0	0	2,321928095	0	3,807354922
OR2F2	0	0	0	0	0	0
OR2G2	0	0	0	0	0	0
OR2G3	0	0	0	0	0	0
OR2G6	0	0	1,584962501	2,807354922	2,321928095	0
OR2H1	0	0	0	0	0	0
OR2H2	0	0	0	0	0	0

OR2J2	0	0	0	0	1,584962501	0
OR2J3	0	0	0	0	0	0
OR2K2	0	0	0	0	0	0
OR2L13	0	0	0	0	0	0
OR2L1P	0	0	0	0	0	0
OR2L2	0	0	0	0	0	0
OR2L3	1	0	0	0	0	0
OR2L8	0	0	0	0	0	0
OR2M1P	0	0	0	0	0	0
OR2M2	0	0	0	0	0	0
OR2M3	1	0	0	0	0	0
OR2M4	0	0	1	0	0	0
OR2M5	0	0	0	0	0	0
OR2M7	0	0	0	0	0	0
OR2S2	0	0	0	0	0	0
OR2T1	0	0	0	0	0	0
OR2T10	0	1	0	0	0	0
OR2T11	0	0	0	0	0	0
OR2T12	0	1	0	2,321928095	1,584962501	0
OR2T2	0	0	0	0	0	0
OR2T27	0	0	0	0	0	0
OR2T29	0	0	0	0	0	0
OR2T3	0	0	0	0	0	0
OR2T33	1	0	1	0	0	0
OR2T34	0	0	0	0	0	0
OR2T35	0	0	0	0	0	0
OR2T4	0	0	0	0	0	0
OR2T5	0	0	0	0	0	0
OR2T6	0	0	0	0	0	0
OR2T8	0	0	0	0	0	0
OR2V2	0	0	0	0	0	0
OR2W1	0	0	0	0	0	0
OR2W3	0	0	0	0	0	0
OR2W5	0	0	0	0	0	0
OR2Y1	0	0	0	0	0	0
OR2Z1	0	0	0	0	0	0
OR3A1	0	0	0	1	0	2
OR3A2	0	1	0	2,321928095	0	0
OR3A3	0	0	0	0	0	0
OR3A4P	0	0	0	0	0	0
OR4A15	0	0	0	0	0	0
OR4A16	0	0	0	0	0	0
OR4A47	0	0	0	0	0	0
OR4A5	0	0	0	0	0	0
OR4B1	0	0	0	0	0	0
OR4C11	0	0	0	0	0	0
OR4C12	0	0	0	0	0	0
OR4C13	0	0	0	0	0	0
OR4C15	0	0	0	0	0	0
OR4C16	0	0	0	0	0	0
OR4C3	0	0	0	0	0	0
OR4C45	0	0	0	0	0	0
OR4C46	0	0	0	0	0	0
OR4C6	0	0	0	0	0	0
OR4D1	3,700439718	2,807354922	2,584962501	4,523561956	4,459431619	3,807354922
OR4D10	0	0	0	0	0	0
OR4D11	0	0	0	0	0	0
OR4D2	0	0	0	0	0	0

OR4D5	0	0	0	0	0	0
OR4D6	0	0	0	0	0	0
OR4D9	1,584962501	0	1,584962501	1	3,700439718	3,169925001
OR4E2	0	0	0	0	0	0
OR4F15	0	0	0	0	0	0
OR4F16	0	0	0	0	0	0
OR4F17	0	0	0	0	0	0
OR4F21	0	0	0	0	0	0
OR4F29	0	0	0	0	0	0
OR4F3	0	0	0	0	0	0
OR4F4	0	0	0	0	0	0
OR4F5	0	0	0	0	0	0
OR4F6	0	0	0	0	0	0
OR4K1	0	0	0	0	0	0
OR4K13	0	0	0	0	0	0
OR4K14	0	0	0	0	0	0
OR4K15	0	0	0	0	0	0
OR4K17	3,807354922	4,584962501	4,584962501	6,700439718	6,700439718	7,409390936
OR4K2	0	0	0	0	1,584962501	0
OR4K5	0	0	0	0	0	0
OR4L1	0	0	0	0	0	0
OR4M1	0	0	0	0	0	0
OR4M2	0	0	0	0	0	0
OR4N2	0	0	1,584962501	2,807354922	4	3,169925001
OR4N3P	0	0	0	0	0	0
OR4N4	0	0	0	0	0	0
OR4N5	0	0	0	2,807354922	2,321928095	4,321928095
OR4P4	0	0	0	0	0	0
OR4Q3	0	0	0	1	1,584962501	0
OR4S1	0	0	0	0	0	0
OR4S2	0	0	0	0	0	0
OR4X1	0	0	0	0	0	0
OR4X2	0	0	0	0	0	0
OR51A2	0	0	0	0	0	0
OR51A4	1	0	0	0	0	0
OR51A7	0	0	0	0	0	0
OR51B2	0	0	0	0	0	0
OR51B4	0	0	0	0	0	0
OR51B5	0	0	0	0	0	2
OR51B6	0	0	0	0	0	0
OR51D1	0	0	0	0	1,584962501	0
OR51E1	0	0	0	1	0	0
OR51E2	0	0	0	0	0	0
OR51F1	0	0	0	0	0	0
OR51F2	0	0	0	0	0	0
OR51G1	0	0	0	0	0	0
OR51G2	0	0	0	0	0	0
OR51I1	0	0	0	0	0	0
OR51I2	0	0	2	2,321928095	3,700439718	0
OR51L1	0	0	0	0	0	2
OR51M1	0	0	0	0	0	0
OR51Q1	0	0	0	0	0	0
OR51S1	0	0	0	0	0	0
OR51T1	0	0	0	0	0	0
OR51V1	0	0	0	0	0	0
OR52A1	0	1	0	0	3	5,169925001
OR52A5	2,321928095	1,584962501	1,584962501	3,321928095	3	4,95419631
OR52B2	0	0	0	0	0	0

OR52B4	0	0	0	0	0	0
OR52B6	0	0	0	0	0	0
OR52D1	0	0	0	0	0	0
OR52E2	0	0	0	0	0	0
OR52E4	0	0	0	0	0	0
OR52E6	0	0	0	0	0	0
OR52E8	0	0	0	0	0	0
OR52H1	1	0	0	0	1,584962501	0
OR52I1	0	0	1	2,321928095	0	2
OR52I2	0	0	0	0	0	0
OR52J3	0	0	0	0	0	0
OR52K1	1	0	1,584962501	2,321928095	0	0
OR52K2	0	0	0	0	0	0
OR52L1	0	0	0	0	0	0
OR52M1	0	0	0	0	0	0
OR52N1	0	0	0	0	0	0
OR52N2	0	0	0	1	0	0
OR52N4	0	0	0	4,700439718	2,321928095	4,64385619
OR52N5	1,584962501	1,584962501	2	5,247927513	6,087462841	5,95419631
OR52R1	0	0	0	0	0	0
OR52W1	0	0	0	0	0	0
OR56A1	0	0	0	0	0	0
OR56A3	1	1	0	1	3,321928095	0
OR56A4	0	0	0	0	0	0
OR56B1	0	0	0	0	0	2
OR56B4	0	0	0	0	0	0
OR5A1	1,584962501	0	0	1	0	2
OR5A2	0	0	0	0	0	0
OR5AC2	0	0	0	0	0	0
OR5AK2	0	0	0	0	0	0
OR5AK4P	0	0	0	0	0	0
OR5AN1	1	1,584962501	0	2,321928095	3	0
OR5AP2	0	0	0	0	0	0
OR5AR1	0	0	0	0	0	0
OR5AS1	0	1	2,584962501	2,807354922	3,321928095	5,554588852
OR5AU1	0	0	0	5	0	5,357552005
OR5B12	0	0	0	1	0	3,169925001
OR5B17	0	0	0	0	0	0
OR5B2	0	0	0	0	0	0
OR5B21	0	0	0	0	0	0
OR5B3	0	0	0	0	0	0
OR5C1	0	0	0	0	0	0
OR5D13	0	0	0	0	0	0
OR5D14	0	0	0	0	0	0
OR5D16	0	0	0	0	0	0
OR5D18	0	0	0	0	0	0
OR5E1P	0	0	0	0	0	0
OR5F1	0	0	0	0	0	0
OR5H1	1	0	0	0	0	0
OR5H14	0	0	0	0	0	0
OR5H15	0	0	0	0	0	0
OR5H2	0	0	0	0	0	0
OR5H6	0	0	0	0	0	0
OR5I1	0	0	0	0	0	0
OR5J2	0	0	0	0	0	0
OR5K1	0	0	0	0	0	0
OR5K2	0	0	0	0	0	0
OR5K3	0	0	0	0	0	0

OR5K4	0	0	0	0	0	0
OR5L1	0	0	0	0	0	0
OR5L2	0	0	0	0	0	0
OR5M1	0	0	0	0	0	0
OR5M10	0	0	0	0	0	0
OR5M11	0	0	0	0	0	0
OR5M3	0	0	0	0	0	0
OR5M8	0	0	0	0	0	0
OR5M9	0	0	0	0	0	0
OR5P2	0	0	0	0	0	0
OR5P3	0	0	0	0	0	0
OR5R1	0	0	0	0	0	0
OR5T1	0	0	0	1	0	3,807354922
OR5T2	0	0	0	0	0	0
OR5T3	0	0	0	0	0	0
OR5V1	0	0	0	0	0	0
OR5W2	0	0	0	0	0	0
OR6A2	0	0	0	0	0	0
OR6B1	0	0	0	0	0	0
OR6B2	0	0	0	0	0	0
OR6B3	0	0	0	0	0	0
OR6C1	0	0	0	0	0	0
OR6C2	0	0	0	0	0	0
OR6C3	0	0	0	0	0	0
OR6C4	0	0	0	0	0	0
OR6C6	0	1	0	0	0	0
OR6C65	0	0	0	0	0	0
OR6C68	0	0	0	0	0	0
OR6C70	0	0	0	0	0	0
OR6C74	0	0	0	1	1,584962501	4,321928095
OR6C75	0	0	0	0	1,584962501	0
OR6C76	0	0	0	0	0	0
OR6F1	0	0	0	0	0	3,169925001
OR6K2	0	0	0	0	0	0
OR6K3	0	0	0	0	0	0
OR6K6	0	0	0	0	0	0
OR6M1	0	0	0	0	0	0
OR6N1	0	0	0	0	0	0
OR6N2	1	0	0	0	0	0
OR6P1	0	1,584962501	1	0	0	0
OR6Q1	0	0	0	0	0	0
OR6S1	0	0	0	0	0	0
OR6T1	0	0	0	0	0	0
OR6V1	0	0	0	0	0	0
OR6W1P	0	0	0	0	0	0
OR6X1	0	0	0	0	0	0
OR6Y1	1,584962501	2,321928095	0	0	0	3,169925001
OR7A10	0	0	0	0	0	0
OR7A17	0	0	1,584962501	2,807354922	3	3,807354922
OR7A5	1,584962501	0	0	2,807354922	1,584962501	0
OR7C1	0	2,584962501	1,584962501	4,700439718	3,321928095	5,554588852
OR7C2	0	0	0	0	0	0
OR7D2	1	1	0	5,247927513	4	5,95419631
OR7D4	0	1	1,584962501	0	0	0
OR7E12P	0	0	0	0	0	0
OR7E14P	0	0	0	0	0	0
OR7E156P	0	0	0	0	0	0
OR7E24	0	0	0	0	0	0

OR7E2P	0	0	0	0	0	0
OR7E37P	0	0	0	0	0	0
OR7E5P	0	0	0	0	0	0
OR7E91P	0	0	0	0	0	0
OR7G1	0	0	0	0	0	0
OR7G2	0	0	0	0	0	0
OR7G3	0	0	0	0	0	0
OR8A1	2,584962501	1,584962501	2,807354922	4,700439718	4,807354922	5,832890014
OR8B12	0	0	0	0	0	0
OR8B2	0	0	0	0	0	0
OR8B3	0	0	0	0	0	0
OR8B4	0	0	0	0	0	0
OR8B8	0	0	0	0	0	0
OR8D1	0	0	0	0	0	0
OR8D2	0	0	0	0	0	0
OR8D4	3,459431619	3,584962501	3,584962501	5,357552005	6,087462841	6,569855608
OR8G1	0	0	0	0	0	0
OR8G5	0	0	0	0	0	0
OR8H1	1	1	0	4,321928095	0	2
OR8H2	0	0	0	0	0	0
OR8H3	0	0	0	0	0	0
OR8I2	0	0	0	0	0	0
OR8J1	0	0	0	1	0	3,807354922
OR8J3	0	0	0	0	0	0
OR8K1	0	0	0	0	0	0
OR8K3	0	0	0	0	0	0
OR8K5	0	0	0	0	0	0
OR8S1	1	0	0	2,321928095	1,584962501	3,169925001
OR8U1	0	0	0	0	0	0
OR9A2	0	0	0	0	0	0
OR9A4	0	0	0	0	0	0
OR9G1	0	0	0	0	0	0
OR9G4	0	0	0	0	0	0
OR9I1	0	0	0	0	0	0
OR9K2	0	0	0	0	0	0
OR9Q1	0	1	1	3,807354922	3,700439718	3,807354922
OR9Q2	0	0	0	1	0	0
ORAI1	5,554588852	5,584962501	5,426264755	5,247927513	5,64385619	4,321928095
ORAI2	6,426264755	6,442943496	6,672425342	6,658211483	6,768184325	6,882643049
ORAI3	5,95419631	6,339850003	6,129283017	4,321928095	5,392317423	2
ORC1	0	1	2,807354922	2,321928095	3	2
ORC2	7,209453366	7,129283017	7,17990909	7,781359714	7,707359132	7,169925001
ORC3	5,426264755	5,285402219	4,459431619	6,22881869	6,044394119	6,409390936
ORC4	6,22881869	6,523561956	6,491853096	6,820178962	6,942514505	6,820178962
ORC5	5,044394119	5,087462841	4,906890596	6,820178962	6,409390936	6,569855608
ORC6	1,584962501	3,584962501	3,169925001	2,807354922	3,321928095	3,169925001
ORM1	0	0	0	0	0	0
ORM2	0	0	0	0	0	0
ORMDL1	9,057991723	8,873444113	8,826548487	9,016808288	8,857980995	8,724513853
ORMDL2	6,62935662	6,977279923	7,247927513	6,409390936	6,614709844	6,321928095
ORMDL3	6,807354922	6,614709844	6,614709844	7,375039431	7,139551352	7,46760555
OS9	7,46760555	7,592457037	7,491853096	6,189824559	6,50779464	5,554588852
OSBP	7,562242424	7,6794801	7,50779464	8,033423002	7,924812504	8,108524457
OSBP2	1	1,584962501	0	0	0	2
OSBPL10	4,754887502	4,857980995	5,523561956	7,076815597	6,807354922	7,276124405
OSBPL11	8,14974712	8,082149041	8,266786541	7	7,22881869	6,820178962
OSBPL1A	7,686500527	7,266786541	7,409390936	3,807354922	3,321928095	4,321928095
OSBPL2	6,303780748	6,392317423	6,459431619	6,62935662	5,781359714	6,491853096

OSBPL3	6,62935662	6,599912842	7,076815597	6,700439718	6,459431619	6,247927513
OSBPL5	4,857980995	4,95419631	4,754887502	2,807354922	4,807354922	0
OSBPL6	3,321928095	3,584962501	3	4,321928095	5,285402219	5,357552005
OSBPL7	5	4,64385619	4,523561956	6,129283017	5,727920455	4,95419631
OSBPL8	10,09407769	9,964340868	9,929258409	9,873444113	10,04439412	9,891783703
OSBPL9	7,257387843	7,321928095	7,076815597	7,129283017	7,475733431	7,129283017
OSCAR	6,087462841	5,781359714	6	0	2,321928095	0
OSCP1	0	0	0	0	1,584962501	2
OSGEP	6,475733431	6,539158811	6,658211483	6,820178962	6,087462841	5,169925001
OSGEPL1	5,392317423	4,95419631	4,95419631	6,129283017	5,169925001	6,169925001
OSGIN1	2,807354922	3,169925001	2,584962501	0	0	0
OSGIN2	7,209453366	7,285402219	7,366322214	6,375039431	7	6,820178962
OSM	6,22881869	5,977279923	5,857980995	3,807354922	5,285402219	4,64385619
OSMR	0	0	0	0	0	0
OSR1	0	0	0	0	0	0
OSR2	0	0	0	0	0	0
OST4	8,426264755	8,721099189	8,807354922	9,124121312	9,303780748	9,126704473
OSTC	8,388017285	8,531381461	8,174925683	8,184875343	8,174925683	8,312882955
OSTCP1	2,321928095	3,584962501	2,584962501	1	2,321928095	0
OSTF1	6,988684687	7,159871337	7,285402219	6,06608919	6,129283017	5,169925001
OSTM1	7,971543554	7,693486957	7,74819285	6,700439718	7,044394119	6,754887502
OSTN	0	1	0	0	0	2
OTC	0	0	0	0	0	0
OTOA	0	0	1	0	0	0
OTOF	0	0	0	0	0	0
OTOG1	0	1,584962501	1	1	0	3,807354922
OTOL1	0	0	0	0	0	0
OTOP1	0	0	0	0	0	0
OTOP2	0	0	0	0	0	0
OTOP3	0	0	0	0	0	0
OTOR	0	0	1,584962501	1	3	4,64385619
OTOS	0	0	0	0	0	0
OTP	0	0	0	0	0	2
OTUB1	5,807354922	5,977279923	6,339850003	4,700439718	5,727920455	5,700439718
OTUB2	0	0	0	0	0	0
OTUD1	7,098032083	6,882643049	6,554588852	5,754887502	6,614709844	6,06608919
OTUD3	5,169925001	5,554588852	5,426264755	5	4,247927513	3,807354922
OTUD4	7,417852515	7,312882955	7,577428828	7,894817763	7,888743249	7,942514505
OTUD5	6,686500527	6,658211483	6,918863237	7,285402219	7,247927513	7,247927513
OTUD6A	0	0	0	0	0	0
OTUD6B	6,409390936	6,108524457	6,375039431	6,409390936	6,285402219	7,011227255
OTUD7A	4,857980995	4	4,584962501	5,614709844	6,189824559	4,321928095
OTUD7B	4	4,584962501	5,044394119	5,459431619	6,044394119	6,06608919
OTX1	0	0	0	0	0	0
OTX2	0	1	0	0	0	0
OVCA2	0	0	0	0	0	0
OVCH1	0	1,584962501	0	4,523561956	4,459431619	5,357552005
OVCH2	0	0	0	0	0	0
OVGP1	0	1	2	3,807354922	0	0
OVOL1	0	0	0	0	0	0
OVOL2	0	0	0	0	0	0
OXA1L	7,312882955	7,426264755	7,400879436	7,531381461	7,569855608	7,169925001
OXCT1	5,781359714	5,64385619	5,857980995	7,303780748	7,06608919	6,409390936
OXCT2	0	0	0	0	0	0
OXER1	0	0	1	0	0	0
OXGR1	0	0	0	0	0	0
OXNAD1	7	7,159871337	7,108524457	7,554588852	7,584962501	7,622051819
OXR1	8,082149041	8,016808288	7,820178962	8,124121312	8,011227255	7,977279923

OXSM	4,584962501	3,700439718	4,087462841	4,523561956	4,459431619	4,321928095
OXSR1	8,326429487	7,888743249	8,113742166	7,098032083	7,475733431	7,098032083
OXT	0	0	0	0	0	0
OXTR	1,584962501	0	1	1	0	2
P2RX1	3,906890596	3,906890596	3,807354922	2,321928095	3	2
P2RX2	0	0	0	0	0	0
P2RX3	0	0	0	0	0	0
P2RX4	5,882643049	5,523561956	6,087462841	4,087462841	5,285402219	3,807354922
P2RX5	4,247927513	4,392317423	4,64385619	4,700439718	5,169925001	4,64385619
P2RX5-TAX1BP3	0	0	0	0	0	0
P2RX6	0	0	0	0	0	3,169925001
P2RX6P	0	0	0	0	0	0
P2RX7	6,894817763	6,714245518	6,672425342	5,357552005	5,554588852	5,169925001
P2RY1	2,321928095	0	1	0	0	3,169925001
P2RY10	7,247927513	7,098032083	6,768184325	7,491853096	7,569855608	7,741466986
P2RY11	5,392317423	5,247927513	5,584962501	4,857980995	5,169925001	4,64385619
P2RY12	0	0	0	0	0	0
P2RY13	4,857980995	4,392317423	4,700439718	1	0	0
P2RY14	5,129283017	5,584962501	5,491853096	4,857980995	4,95419631	5,700439718
P2RY2	1	2,807354922	2	0	0	0
P2RY4	0	0	0	0	0	0
P2RY6	5,672425342	6,209453366	5,357552005	0	1,584962501	0
P2RY8	7,238404739	7,672425342	7,366322214	8,312882955	8,379378367	8,189824559
P4HA1	9,136991112	9,095397023	8,832890014	8,330916878	8,977279923	8,049848549
P4HA2	3,700439718	3,807354922	3	5,754887502	4,64385619	6,491853096
P4HA3	0	0	0	0	2,321928095	0
P4HB	8,257387843	8,375039431	8,321928095	7,499845887	7,312882955	6,62935662
P4HTM	4,906890596	4,700439718	5,044394119	5,247927513	5,087462841	3,807354922
PA2G4	8,933690655	8,991521846	8,6794801	9,290018847	9,294620749	9,292321633
PA2G4P4	4,754887502	5	4,754887502	6,554588852	6,247927513	7,169925001
PAAF1	5,209453366	5,426264755	5,321928095	5,700439718	6,044394119	6,62935662
PABPC1	12,56176526	12,46275787	12,56176526	12,78810655	12,68584381	12,78810655
PABPC1L	5,209453366	4,64385619	5,357552005	6,554588852	5,930737338	7,098032083
PABPC1L2A	0	0	0	0	0	0
PABPC1L2B	0	0	0	0	0	0
PABPC1P2	0	1	1	1	0	0
PABPC3	6,942514505	7	6,584962501	7,839203788	7,74819285	8,189824559
PABPC4	9,346513733	9,129283017	9,057991723	9,84862294	9,815383296	9,908392621
PABPC4L	1	0	0	0	0	0
PABPC5	4,321928095	4,754887502	3,584962501	6,189824559	6,807354922	7,491853096
PABPN1	7,912889336	7,960001932	8,129283017	8,357552005	8,599912842	8,515699838
PABPN1L	0	0	0	0	0	0
PACRG	0	0	0	0	0	0
PACRGL	2,807354922	3,700439718	3,169925001	3,321928095	3	0
PACS1	6,672425342	7,022367813	7,375039431	7,375039431	7,400879436	6,930737338
PACS2	5	5	4,95419631	5,832890014	4,95419631	3,169925001
PACSIN1	2,584962501	1	2	0	0	0
PACSIN2	6,247927513	6,475733431	6,339850003	5,459431619	5,285402219	6,06608919
PACSIN3	0	0	0	1	0	0
PADI1	0	0	0	0	0	0
PADI2	6,14974712	5,614709844	5,426264755	3,321928095	0	0
PADI3	0	0	0	0	0	0
PADI4	1	2,807354922	3,321928095	2,807354922	2,321928095	0
PADI6	0	0	0	0	0	0
PAEP	0	0	0	0	0	0
PAF1	6,06608919	6	5,781359714	6,584962501	6,044394119	6,569855608
PAFAH1B1	8,724513853	8,77148947	8,74819285	9,025139562	9,250298418	9,197216693
PAFAH1B2	8,370687407	8,209453366	7,965784285	8,479780264	8,194756854	8,238404739

PAFAH1B3	3,321928095	2,807354922	3	1	3	0
PAFAH2	6,475733431	6,303780748	6,459431619	6,266786541	5,554588852	6,169925001
PAG1	9,62935662	9,56414949	9,744833837	10,26795708	10,40407714	10,21310422
PAGE1	0	0	0	0	0	0
PAGE2	0	0	0	0	0	0
PAGE2B	1	0	0	0	0	0
PAGE3	0	0	0	0	0	0
PAGE4	0	0	0	0	0	0
PAGE5	0	0	0	0	0	0
PAH	0	0	0	0	0	0
PAICS	6,768184325	6,614709844	7,033423002	7	7,06608919	6,491853096
PAIP1	4,584962501	4,857980995	4,64385619	4,857980995	3,700439718	0
PAIP2	9,131856961	9,204571144	9,103287808	9,233619677	9,192292814	9,116343961
PAIP2B	2,321928095	3,169925001	3	0	0	0
PAK1	8,098032083	8,214319121	7,912889336	5,930737338	5,727920455	6,06608919
PAK1IP1	6,64385619	6,189824559	6,491853096	5,832890014	5,459431619	6,169925001
PAK2	9,285402219	9,324180547	9,204571144	9,269126679	9,25502857	9,475733431
PAK3	1	1,584962501	3,169925001	5,247927513	4	3,807354922
PAK4	2,321928095	2,321928095	1,584962501	0	0	2
PAK6	0	0	0	0	0	0
PALB2	6,06608919	5,95419631	6,266786541	6,554588852	6,539158811	5,95419631
PALLD	5,392317423	5,129283017	5,807354922	4,087462841	4	2
PALM	0	0	1	0	0	0
PALM2	0	0	0	0	0	2
PALM2-AKAP2	0	0	0	0	0	0
PALM3	0	0	0	0	0	0
PALMD	1,584962501	0	1	0	1,584962501	2
PAM	5,930737338	5,930737338	5,700439718	5,882643049	5,554588852	3,807354922
PAM16	0	0	1	1	0	2
PAMR1	0	0	0	0	0	0
PAN2	5,357552005	5,129283017	5,209453366	6,768184325	5,392317423	6,409390936
PAN3	7,531381461	7,451211112	7,672425342	8,13442632	7,912889336	8,189824559
PAN3-AS1	1	1,584962501	1,584962501	5,357552005	4,247927513	4,95419631
PANK1	2,584962501	2,807354922	1	1	0	0
PANK2	7,483815777	7,459431619	7,64385619	8,276124405	8,392317423	8,238404739
PANK3	7,820178962	7,714245518	7,721099189	7,266786541	7,285402219	7,129283017
PANK4	5	5,285402219	5	5,247927513	4,64385619	4,95419631
PANX1	5,357552005	4,95419631	5,169925001	3,807354922	4,247927513	0
PANX2	0	1,584962501	3,321928095	0	0	0
PANX3	0	0	0	0	0	0
PAOX	4,857980995	4,64385619	3,321928095	2,321928095	2,321928095	0
PAPLN	0	2,321928095	1	0	0	0
PAPOLA	10,14720492	10,10983065	10,1176431	9,964340868	9,975847968	10,05120894
PAPOLB	1,584962501	0	0	0	0	0
PAPOLG	6,754887502	6,658211483	6,491853096	7	7,06608919	7,011227255
PAPPA	4,169925001	2,807354922	2,584962501	6,375039431	5,977279923	6,569855608
PAPPA2	2,584962501	1	0	5,459431619	4,459431619	6,491853096
PAPSS1	8,294620749	8,554588852	8,326429487	7,055282436	6,965784285	6,62935662
PAPSS2	4,64385619	4,95419631	4,459431619	3,807354922	0	2
PAQR3	5,672425342	5,392317423	5,247927513	4,321928095	4,95419631	4,95419631
PAQR4	4,247927513	1,584962501	3,169925001	0	2,321928095	0
PAQR5	0	0	0	0	0	0
PAQR6	0	1	2	4,523561956	3,321928095	5,700439718
PAQR7	3,321928095	3	3	0	1,584962501	0
PAQR8	6,658211483	6,714245518	6,820178962	6,62935662	6,882643049	6,930737338
PAQR9	0	0	0	0	0	0
PARD3	1	1	0	1	0	3,169925001
PARD3B	1	0	3,169925001	3,321928095	4,247927513	3,807354922

PARD6A	2,807354922	3,807354922	4,247927513	2,321928095	3	0
PARD6B	5,584962501	5,169925001	5,129283017	6,768184325	7	6,820178962
PARD6G	3	3,321928095	2	2,321928095	0	0
PARG	5,882643049	5,459431619	5,321928095	5,754887502	5,392317423	6,321928095
PARK7	8,523561956	8,636624621	8,438791853	8,531381461	8,483815777	8,54303182
PARL	6,768184325	7,033423002	6,988684687	6,906890596	7,06608919	7,011227255
PARM1	3,321928095	2,321928095	2,807354922	2,321928095	3,700439718	4,321928095
PARN	6,569855608	6,087462841	6,22881869	7,321928095	6,832890014	7,247927513
PARP1	7,832890014	8,049848549	7,965784285	8,647458426	8,654636029	8,622051819
PARP10	4,64385619	4,169925001	5,523561956	4,087462841	3	0
PARP11	7	7,087462841	7,330916878	6,977279923	7,22881869	7,46760555
PARP12	6,375039431	6,523561956	6,50779464	6,321928095	6,087462841	6,169925001
PARP14	9,878050913	9,943979914	10,12541347	9,430452552	9,383704292	9,571752644
PARP15	6,266786541	6,285402219	6,266786541	6,06608919	6,189824559	4,95419631
PARP16	5,700439718	5,781359714	5,247927513	5,700439718	5,727920455	5,700439718
PARP2	5,247927513	4,754887502	4,459431619	4,321928095	3,321928095	0
PARP3	4,700439718	5,64385619	5,357552005	6,06608919	6,285402219	6,62935662
PARP4	6,569855608	6,044394119	6,554588852	6,129283017	6,129283017	5,357552005
PARP6	5,247927513	5,554588852	5,321928095	6,06608919	5,727920455	6,62935662
PARP8	8,388017285	8,238404739	8,475733431	8,95419631	8,784634846	8,531381461
PARP9	9,6794801	9,654636029	9,796039609	9,152284842	9,271463028	9,611024797
PARPBP	3,906890596	3,700439718	3,906890596	1	1,584962501	0
PARS2	1	3,321928095	3,169925001	0	3,700439718	0
PART1	0	0	2	2,321928095	3	0
PARVA	2,321928095	1	0	1	3,321928095	3,169925001
PARVB	6,108524457	5,672425342	5,614709844	2,807354922	4,247927513	3,807354922
PARVG	6,741466986	6,807354922	6,857980995	5,930737338	5,781359714	6,169925001
PASD1	0	0	0	0	0	0
PASK	7,515699838	7,665335917	7,651051691	9,294620749	9,142107057	9,231221181
PATE1	0	0	0	0	0	0
PATE2	2,321928095	0	1,584962501	1	1,584962501	2
PATE3	0	0	0	0	0	0
PATE4	0	0	0	0	0	0
PATL1	6,754887502	6,930737338	7	6	6,129283017	6,321928095
PATL2	6,14974712	6,129283017	6,339850003	7,727920455	7,554588852	8,238404739
PATZ1	6,741466986	6,62935662	6,475733431	6,321928095	6,658211483	6,569855608
PAWR	5,247927513	4,906890596	4,857980995	6,459431619	6,044394119	6,62935662
PAX1	0	0	0	0	0	0
PAX2	0	0	0	0	0	0
PAX3	2,321928095	1	0	0	3,700439718	0
PAX4	0	0	0	0	0	0
PAX5	6,832890014	6,754887502	6,768184325	8,044394119	8,033423002	8,06608919
PAX6	1,584962501	1	0	1	1,584962501	0
PAX7	0	0	0	0	0	0
PAX8	0	0	0	0	0	0
PAX9	0	0	0	0	0	0
PAXIP1	6,266786541	6,339850003	6,375039431	5,930737338	5,554588852	5,700439718
PBK	0	0	0	0	0	0
PBLD	2,321928095	2,584962501	1	4,321928095	3	3,807354922
PBOV1	0	1	0	2,807354922	3,321928095	2
PBRM1	9,651051691	9,479780264	9,652844973	9,076815597	8,977279923	9,136991112
PBX1	2,807354922	1,584962501	3	4,857980995	4	4,95419631
PBX2	3,321928095	2,807354922	3,321928095	4,087462841	3,321928095	0
PBX3	6,686500527	7,129283017	7,022367813	6,266786541	6,942514505	6,754887502
PBX4	4,700439718	4,64385619	4,584962501	5,882643049	5,392317423	6,569855608
PBXIP1	8,816983623	8,836050355	9,084808388	9,729620744	9,87036472	9,511752654
PC	1,584962501	0	2	0	0	0
PCA3	0	1	0	1	3,321928095	2

PCAT1	3,321928095	3,700439718	4,459431619	4,523561956	4,247927513	3,807354922
PCBD1	5,044394119	4,95419631	5	1	4	3,169925001
PCBD2	4,857980995	4,392317423	4,906890596	4,087462841	4,807354922	3,169925001
PCBP1	10,9505559	10,95927751	10,92407019	10,68387187	10,77478706	10,71080643
PCBP1-AS1	5,044394119	5,614709844	6,06608919	6,06608919	5,554588852	6,169925001
PCBP2	10,07146236	10,24079133	10,32305476	10,4604559	10,45532722	10,34318572
PCBP3	3,459431619	2,584962501	1,584962501	4,087462841	4,247927513	3,807354922
PCBP4	3,321928095	3,906890596	4,700439718	2,807354922	2,321928095	0
PCCA	3,807354922	3,700439718	4,392317423	1	4	4,64385619
PCCB	4,169925001	3,584962501	3,906890596	0	3,321928095	0
PCDH1	2,584962501	1	1	0	0	0
PCDH10	0	0	1,584962501	1	0	0
PCDH11X	0	0	0	0	0	0
PCDH11Y	0	0	0	0	0	0
PCDH12	1	0	0	0	0	0
PCDH15	2,584962501	1	0	2,807354922	3	4,321928095
PCDH17	2,321928095	1	1,584962501	4,523561956	5,169925001	5,700439718
PCDH18	0	0	0	0	0	0
PCDH19	0	0	1	0	2,321928095	3,169925001
PCDH20	0	0	0	0	0	0
PCDH7	3,906890596	4	3,906890596	5,882643049	5,459431619	6,820178962
PCDH8	1	0	0	0	0	0
PCDH9	6,189824559	6,339850003	6,189824559	6,459431619	6,189824559	6,820178962
PCDHA1	0	0	0	0	0	0
PCDHA10	0	0	0	0	0	0
PCDHA11	0	0	0	0	0	0
PCDHA12	0	1,584962501	0	2,321928095	0	0
PCDHA13	0	0	0	0	0	0
PCDHA2	0	0	0	0	0	0
PCDHA3	0	0	0	0	0	0
PCDHA4	0	0	2	0	2,321928095	0
PCDHA5	0	0	0	0	0	0
PCDHA6	0	0	0	0	0	0
PCDHA7	0	0	0	0	0	0
PCDHA8	0	0	0	0	0	0
PCDHA9	0	0	0	0	0	0
PCDHAC1	0	0	0	0	0	0
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PCDHB1	1	0	0	0	2,321928095	2
PCDHB10	0	0	0	0	0	0
PCDHB11	0	0	0	0	0	0
PCDHB12	0	0	0	0	0	0
PCDHB13	0	0	0	0	0	0
PCDHB14	0	0	0	0	0	0
PCDHB15	0	0	0	0	0	0
PCDHB16	1	1	2,584962501	3,807354922	3,700439718	5,357552005
PCDHB19P	0	0	0	0	0	0
PCDHB2	0	0	0	0	0	0
PCDHB3	0	0	0	0	0	0
PCDHB4	0	0	0	0	0	0
PCDHB5	0	0	0	0	0	0
PCDHB6	0	0	0	0	0	0
PCDHB7	0	0	0	0	0	0
PCDHB8	0	0	0	0	0	0
PCDHB9	1	0	1	3,321928095	3,700439718	3,807354922
PCDHGA1	0	1	0	2,807354922	3,321928095	5,357552005
PCDHGA10	0	0	1,584962501	3,321928095	0	3,169925001
PCDHGA11	0	0	0	0	0	0

PCDHGA12	0	0	0	0	0	0
PCDHGA2	0	0	0	0	0	0
PCDHGA3	0	0	0	0	0	0
PCDHGA4	0	0	0	0	0	0
PCDHGA5	0	0	1	0	0	0
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PCDHGA9	0	0	0	0	0	0
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PCDHGB2	0	0	0	0	0	0
PCDHGB3	0	0	0	0	0	0
PCDHGB4	0	0	0	0	0	0
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PCDHGB7	0	0	0	2,807354922	0	0
PCDHGB8P	0	0	0	0	0	0
PCDHGC3	0	0	0	0	0	0
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PCF11	9,481799432	9,366322214	9,531381461	9,818582177	9,605479518	9,878050913
PCGEM1	0	0	0	0	0	0
PCGF1	4,392317423	2,321928095	3,807354922	2,807354922	3	2
PCGF2	0	0	0	1	0	0
PCGF3	7,434628228	7,303780748	7,523561956	7,076815597	7,17990909	7,209453366
PCGF5	8,820178962	8,873444113	8,791162889	8,787902559	8,845490051	8,503825738
PCGF6	4,700439718	4,64385619	4,906890596	5,700439718	4,807354922	4,95419631
PCID2	7,787902559	7,87036472	7,851749041	8,459431619	8,426264755	8,531381461
PCIF1	4,64385619	4,754887502	4,169925001	2,321928095	5,285402219	4,321928095
PCK1	0	0	0	2,321928095	0	4,64385619
PCK2	6,189824559	5,584962501	5,95419631	2,321928095	3,700439718	2
PCLO	2,321928095	2,584962501	2	4,321928095	4,64385619	5,700439718
PCM1	9,52160044	9,409390936	9,475733431	9,927777962	9,77148947	9,970105891
PCMT1	8,353146825	8,539158811	8,139551352	7,813781191	7,851749041	7,442943496
PCMTD1	8,741466986	8,573647187	8,784634846	8,851749041	8,82336724	9
PCMTD2	8,129283017	8,082149041	8,14974712	8,584962501	8,266786541	8,271463028
PCNA	7,392317423	7,247927513	7,54689446	6,584962501	6,882643049	5,554588852
PCNAP1	0	0	0	0	0	0
PCNP	8,727920455	8,636624621	8,45532722	9,252665432	9,016808288	9,126704473
PCNT	7,569855608	7,266786541	7,257387843	7,189824559	7,348728154	7,169925001
PCOLCE	0	0	2,584962501	1	0	2
PCOLCE2	0	2,584962501	0	0	2,321928095	0
PCP2	1,584962501	1	1	0	3	0
PCP4	0	0	0	0	0	0
PCP4L1	0	0	0	0	0	0
PCSK1	0	0	0	0	0	0
PCSK1N	0	0	1	0	0	0
PCSK2	1	2,584962501	1,584962501	4,523561956	4,247927513	5,554588852
PCSK4	0	0	0	0	0	0
PCSK5	5,044394119	5,426264755	5,169925001	4,523561956	5,392317423	4,64385619
PCSK6	0	0	0	0	0	0
PCSK7	6,409390936	7,022367813	6,930737338	7,098032083	6,50779464	7,348728154
PCSK9	0	0	0	0	0	0
PCTP	6,087462841	5,977279923	6	3,807354922	3,321928095	0
PCYOX1	6,426264755	6,339850003	6,06608919	6,375039431	6,459431619	6,409390936
PCYOX1L	5,321928095	5,044394119	4,906890596	5	5,285402219	4,64385619
PCYT1A	7,857980995	8	8,113742166	7,658211483	7,539158811	7,129283017
PCYT1B	0	0	0	0	1,584962501	0
PCYT2	3,700439718	3,584962501	3,321928095	4,321928095	1,584962501	2

PDAP1	6,882643049	6,62935662	6,64385619	7,169925001	7,22881869	6,754887502
PDC	0	0	0	0	0	0
PDCD1	0	1,584962501	0	0	0	0
PDCD10	8,366322214	8,46760555	8,321928095	7,994353437	8,174925683	7,741466986
PDCD11	6,554588852	6,409390936	6,285402219	6,906890596	7,06608919	6,700439718
PDCD1LG2	6,189824559	5,832890014	5,882643049	0	0	0
PDCD2	7,971543554	8,027905997	7,851749041	8,503825738	8,405141463	8,413627929
PDCD2L	3,700439718	4	4	4,321928095	4,459431619	3,807354922
PDCD4	9,002815016	9,116343961	9,027905997	9,622051819	9,781359714	9,605479518
PDCD5	7,483815777	7,348728154	7,055282436	6,845490051	7,108524457	6,491853096
PDCD6	8,584962501	8,569855608	8,290018847	9,055282436	8,816983623	9,008428622
PDCD6IP	8,948367232	8,924812504	8,888743249	9,20701432	8,873444113	9,041659152
PDCD7	7,539158811	7,321928095	7,348728154	8,257387843	8,30833903	8,392317423
PDCL	6,741466986	6,584962501	6,087462841	5,930737338	5,727920455	5,95419631
PDCL2	0	0	0	0	0	0
PDCL3	6,392317423	6,727920455	6,426264755	5,129283017	5,781359714	4,95419631
PDE10A	1	1	1	1	3,321928095	3,807354922
PDE11A	1	0	1,584962501	2	4,247927513	3,807354922
PDE12	6,807354922	6,62935662	6,459431619	6,741466986	6,942514505	6,965784285
PDE1A	2,807354922	2,807354922	2,584962501	3,321928095	1,584962501	2
PDE1B	0	1	0	3,321928095	0	2
PDE1C	0	0	1,584962501	3,321928095	1,584962501	0
PDE2A	1	0	0	6,409390936	5,392317423	7,011227255
PDE3A	0	0	0	1	0	2
PDE3B	9,703903573	9,513727596	9,569855608	10,2179577	10,09934781	10,01122726
PDE4A	6,554588852	6,459431619	6,768184325	5,129283017	5,727920455	4,95419631
PDE4B	8,335390355	8,129283017	8,243173983	8,303780748	8,285402219	8,558420713
PDE4C	0	0	0	0	0	0
PDE4D	8,370687407	8,28077077	8,299208018	8,87958325	9,105908509	8,87036472
PDE4DIP	6,62935662	6,768184325	6,727920455	6,584962501	6,918863237	6,62935662
PDE5A	1,584962501	2,584962501	0	1	3,700439718	3,169925001
PDE6A	2,321928095	0	0	1	1,584962501	0
PDE6B	2,807354922	1,584962501	2	2,807354922	3	3,807354922
PDE6C	0	0	0	0	0	0
PDE6D	5,357552005	5,357552005	5	4,321928095	4,64385619	3,169925001
PDE6G	2,321928095	1,584962501	1	3,321928095	2,321928095	0
PDE6H	0	0	0	0	0	0
PDE7A	7,888743249	8,022367813	8,011227255	8,82336724	8,503825738	8,73470962
PDE7B	4,95419631	4,754887502	4,857980995	6,554588852	6,584962501	6,882643049
PDE8A	5,906890596	5,727920455	6,06608919	5,754887502	5,169925001	6,169925001
PDE8B	1	0	0	3,807354922	4,459431619	4,64385619
PDE9A	1	2,321928095	2	2,807354922	3	0
PDF	0	0	0	0	0	0
PDGFA	3,807354922	3,321928095	4,087462841	5	5,459431619	6,169925001
PDGFB	6,22881869	6,303780748	6,285402219	4,700439718	4,807354922	4,64385619
PDGFC	4,64385619	4,392317423	4,64385619	2,807354922	1,584962501	4,321928095
PDGFD	4,392317423	4,584962501	3,584962501	4,321928095	4,247927513	4,321928095
PDGFRA	3,321928095	3,807354922	3,584962501	5,357552005	5,727920455	6,754887502
PDGFRB	1	2,584962501	2,584962501	0	0	0
PDGFRL	0	0	0	0	0	0
PDHA1	8,076815597	8,233619677	8,033423002	8,103287808	7,982993575	7,813781191
PDHA2	0	0	0	0	0	0
PDHB	6,988684687	6,807354922	7	6,129283017	5,857980995	5,554588852
PDHX	6,22881869	6,584962501	5,930737338	5,754887502	6,087462841	6,169925001
PDIA2	0	0	0	0	0	0
PDIA3	9,047123912	9,192292814	9,136991112	7,930737338	8,174925683	8,016808288
PDIA4	8,487840034	8,581200582	8,409390936	7,64385619	7,74819285	7,129283017
PDIA5	5,129283017	4,64385619	4,459431619	3,321928095	3,700439718	3,807354922

PDIA6	9,810571635	9,766528909	9,50779464	8,164906927	8,243173983	7,918863237
PDIK1L	5,392317423	5,285402219	5,781359714	6,06608919	6,087462841	6,930737338
PDILT	0	0	0	0	0	0
PDK1	7,982993575	8,118941073	8,339850003	8,174925683	8,672425342	8,503825738
PDK2	4,247927513	4,64385619	4,087462841	2,807354922	4,247927513	0
PDK3	5,977279923	6,266786541	5,906890596	6,06608919	6,584962501	5,832890014
PDK4	6,64385619	6,614709844	6,768184325	1	2,321928095	0
PDLIM1	4,392317423	4,700439718	4,392317423	5,700439718	5,977279923	4,64385619
PDLIM2	5,554588852	5,95419631	6,087462841	5,129283017	5,781359714	5,357552005
PDLIM3	2,584962501	2,807354922	2	4,321928095	4	5,700439718
PDLIM4	0	1	0	0	0	0
PDLIM5	7,592457037	7,636624621	7,491853096	6,321928095	6,409390936	5,700439718
PDLIM7	2,584962501	4,087462841	3,906890596	0	0	0
PDP1	8,038918989	8	7,607330314	5,700439718	6,321928095	4,95419631
PDP2	5,357552005	5,523561956	5,209453366	5,700439718	5,857980995	4,95419631
PDPK1	8,038918989	8,194756854	8,17990909	8,13442632	7,942514505	7,851749041
PDPN	0	0	1,584962501	0	0	0
PDPR	6,554588852	6,62935662	6,475733431	7,459431619	7,400879436	7,098032083
PDRG1	5,523561956	5,357552005	5,044394119	6,321928095	6,189824559	5,95419631
PDSSA	8,971543554	9,038918989	8,758223215	9,283088353	9,079484784	9,126704473
PDSSB	8,6794801	8,438791853	8,64385619	8,487840034	8,535275377	8,503825738
PDSS1	5,426264755	5,321928095	5,392317423	0	1,584962501	2
PDSS2	6,129283017	6,357552005	6,129283017	5,930737338	5,930737338	6,321928095
PDX1	0	0	0	0	0	0
PDXDC1	8,049848549	8,159871337	8,022367813	8,459431619	8,071462363	8,54303182
PDXDC2P	0	0	0	0	0	0
PDXK	7,614709844	7,8008999	8,016808288	6,95419631	6,285402219	6,820178962
PDXP	0	0	0	0	0	0
PDYN	0	0	0	0	0	0
PDZD11	4,459431619	4,700439718	4,392317423	2,321928095	2,321928095	3,169925001
PDZD2	1	1	2,807354922	0	1,584962501	0
PDZD3	0	0	0	0	0	0
PDZD4	2,584962501	2,584962501	3	2,807354922	3	0
PDZD7	0	0	1	0	0	3,169925001
PDZD8	7,285402219	7,076815597	6,965784285	7,303780748	7,159871337	7,515699838
PDZD9	0	1	0	0	0	0
PDZK1	0	0	0	3,321928095	0	0
PDZK1IP1	0	0	0	2,321928095	0	0
PDZK1P1	0	0	0	0	0	0
PDZRN3	0	0	0	0	0	0
PDZRN4	0	0	0	0	1,584962501	0
PEA15	9,294620749	9,558420713	9,550746785	6,375039431	7,044394119	6,169925001
PEAK1	5,930737338	6,044394119	6,189824559	5,882643049	5,977279923	5,357552005
PEAR1	0	0	0	1	0	2
PEBP1	9,596189756	9,667111542	9,721099189	9,997179481	10,08878824	9,962896005
PEBP4	0	0	0	0	0	3,169925001
PECAM1	7,247927513	7,285402219	6,95419631	5	4,64385619	5,169925001
PECR	4,459431619	4,169925001	4,857980995	3,321928095	4	2
PEF1	5,247927513	5,169925001	4,64385619	4,857980995	5,930737338	4,95419631
PEG10	3	3,321928095	2	0	1,584962501	2
PEG3	1	1	0	1	1,584962501	4,321928095
PELI1	6,832890014	6,894817763	7,303780748	7,442943496	7,108524457	7,348728154
PELI2	6,129283017	6,209453366	5,930737338	5,930737338	5,930737338	4,95419631
PELI3	3	3,321928095	2	0	1,584962501	0
PELO	5,169925001	4,700439718	5	5,523561956	5,459431619	5,554588852
PELP1	6,339850003	6,189824559	6,266786541	7,266786541	7,383704292	7,209453366
PEMT	1,584962501	3,169925001	2,807354922	0	1,584962501	0
PENK	0	0	0	0	0	0

PEPD	7,539158811	7,129283017	7,098032083	5,614709844	6,087462841	4,95419631
PER1	6,108524457	5,523561956	5,727920455	6,700439718	6,409390936	6,965784285
PER2	5,781359714	5,426264755	5,129283017	4,700439718	5,285402219	3,807354922
PER3	4,169925001	4,087462841	4	2,321928095	3,700439718	3,169925001
PERP	5,95419631	5,044394119	5,169925001	5,700439718	6,129283017	2
PES1	5,614709844	5,392317423	6,169925001	5	5,285402219	5,169925001
PET117	4,64385619	4,392317423	4,584962501	5	4	3,807354922
PEX1	6,741466986	6,741466986	6,491853096	7,375039431	7,06608919	7,375039431
PEX10	3,906890596	4,523561956	3,584962501	2,807354922	4	2
PEX11A	4	3,807354922	3,700439718	2,321928095	3,700439718	2
PEX11B	6,285402219	6,108524457	6,247927513	6,794415866	6,942514505	6,882643049
PEX11G	0	1,584962501	0	3,807354922	4,247927513	4,64385619
PEX12	4,584962501	4,087462841	3,169925001	6,554588852	6,087462841	6,930737338
PEX13	6,14974712	6,087462841	5,882643049	5,930737338	5,857980995	6,754887502
PEX14	5,321928095	5,285402219	5,169925001	4,523561956	5,169925001	5,169925001
PEX16	4	4,087462841	4	4,857980995	3,321928095	2
PEX19	6,988684687	6,741466986	7,108524457	6,584962501	6,409390936	6,409390936
PEX2	6,475733431	5,857980995	5,930737338	6,409390936	6,321928095	6,06608919
PEX26	7,257387843	7,098032083	7,483815777	6,95419631	7,285402219	6,965784285
PEX3	5,392317423	5,584962501	5,584962501	5,700439718	5,781359714	3,169925001
PEX5	4	4,523561956	3,321928095	3,321928095	0	3,169925001
PEX5L	0	1	0	2,321928095	3,321928095	0
PEX6	3,906890596	3,169925001	4,392317423	5,247927513	5,285402219	4,64385619
PEX7	5,357552005	5,129283017	5,129283017	4,321928095	4,459431619	5,169925001
PF4	7,434628228	7,62935662	7,076815597	8,375039431	8,491853096	8,558420713
PF4V1	3	4,087462841	2,807354922	4,857980995	3	3,169925001
PFAS	4,392317423	3,700439718	3,584962501	2,321928095	1,584962501	0
PFDN1	6,930737338	6,658211483	6,62935662	6,768184325	6,700439718	6,247927513
PFDN2	7,392317423	7,614709844	7,247927513	7,894817763	7,475733431	7,539158811
PFDN4	7,199672345	7,17990909	6,658211483	7,339850003	7,087462841	7,247927513
PFDN5	9,45532722	9,743151394	9,808964175	10,53430288	10,64295422	10,41045135
PFDN6	6,022367813	5,977279923	6,266786541	5,754887502	6,189824559	4,321928095
PFKFB1	0	0	0	0	0	0
PFKFB2	4,64385619	4,523561956	4,247927513	3,807354922	1,584962501	4,321928095
PFKFB3	7,622051819	7,562242424	7,614709844	8,224001674	8,515699838	8,204571144
PFKFB4	5,169925001	4,64385619	4,95419631	2,807354922	3,700439718	0
PFKL	6,807354922	6,832890014	6,781359714	5,930737338	6,375039431	4,95419631
PFKM	3,459431619	3,169925001	2,584962501	2,807354922	1,584962501	2
PFKP	6,599912842	6,857980995	6,906890596	6,584962501	7	4,95419631
PFN1	9,531381461	9,753216749	9,73978061	8,6794801	8,816983623	8,491853096
PFN1P2	0	0	0	0	0	3,169925001
PFN2	4	4,64385619	3,169925001	6	5,459431619	4,321928095
PFN3	0	0	0	0	0	0
PFN4	0	0	0	0	0	0
PGA3	0	0	0	0	0	0
PGA4	0	0	0	0	0	0
PGA5	0	0	0	0	0	0
PGAM1	4,64385619	3,906890596	3,906890596	4,087462841	5,64385619	0
PGAM2	0	0	0	2,321928095	0	0
PGAM4	0	0	0	0	0	0
PGAM5	5,977279923	6,189824559	6,321928095	5,754887502	6,285402219	5,700439718
PGAP1	5,554588852	5,321928095	5,459431619	7,055282436	6,832890014	7,942514505
PGAP2	5,491853096	5,554588852	5,169925001	5,700439718	5,64385619	4,64385619
PGAP3	3,807354922	4,857980995	5,129283017	3,807354922	3	0
PGBD1	1,584962501	1	2	2,321928095	1,584962501	0
PGBD2	5,169925001	5,614709844	5,426264755	4,087462841	4,807354922	2
PGBD4	5,169925001	4,64385619	4,087462841	6,129283017	5,781359714	6,321928095
PGBD5	0	0	1,584962501	2,807354922	3	0

PGC	0	0	0	1	0	0
PGCP1	0	0	0	0	0	0
PGD	7,62935662	7,62935662	7,426264755	5,129283017	5,781359714	5,357552005
PGF	0	0	0	0	0	0
PGGT1B	7,807354922	7,6794801	7,577428828	7,491853096	7,22881869	7,209453366
PGK1	10,52160044	10,56605404	10,40194612	9,754887502	10,38154295	9,348728154
PGK2	0	0	0	0	0	0
PGLS	4,95419631	5,044394119	5,044394119	5,614709844	4,64385619	4,95419631
PGLYRP1	0	0	0	0	0	0
PGLYRP2	0	1	0	0	1,584962501	0
PGLYRP3	0	0	0	0	0	0
PGLYRP4	0	0	0	0	0	0
PGM1	4,754887502	5,392317423	5,247927513	5,247927513	5,392317423	4,64385619
PGM2	6,392317423	6,50779464	6,321928095	3,807354922	4,459431619	3,169925001
PGM2L1	6,266786541	6,50779464	6,475733431	6,658211483	7,108524457	7,011227255
PGM3	6,686500527	6,781359714	6,906890596	5,700439718	5,727920455	5,832890014
PGM5	0	0	0	0	0	0
PGM5P2	0	0	0	1	0	2
PGP	6,339850003	6,189824559	6,491853096	6,129283017	5,392317423	4,64385619
PGPEP1	5,930737338	5,781359714	6	5,700439718	5,392317423	5,357552005
PGPEP1L	0	0	0	0	0	0
PGR	1	1	1	2,321928095	2,321928095	3,169925001
PGRMC1	7,209453366	7,011227255	6,62935662	6	6,189824559	6,409390936
PGRMC2	7,238404739	7,247927513	6,768184325	7,614709844	7,285402219	6,700439718
PGS1	5,614709844	5,882643049	5,857980995	6,50779464	6,321928095	5,832890014
PHACTR1	5,930737338	5,832890014	6	6,882643049	7,108524457	7,098032083
PHACTR2	8,87958325	8,787902559	8,791162889	8,888743249	8,665335917	8,894817763
PHACTR3	0	0	0	0	0	2
PHACTR4	7,531381461	7,459431619	7,592457037	7,442943496	7,672425342	7,247927513
PHAX	8,28077077	8,271463028	7,894817763	8,413627929	8,471675214	8,491853096
PHB	6,022367813	5,95419631	6,392317423	5,832890014	6,044394119	5,357552005
PHB2	7,845490051	7,936637939	7,965784285	8,503825738	8,483815777	8,603626345
PHC1	4,95419631	4,523561956	4,857980995	5,247927513	5,459431619	4,95419631
PHC2	5,672425342	5,977279923	5,977279923	5,357552005	5,554588852	5,169925001
PHC3	8,781359714	8,861086906	8,8008999	9,068778278	9,005624549	9
PHEX	3,700439718	2,321928095	3,169925001	3,807354922	3,321928095	4,64385619
PHF1	6,87036472	6,672425342	7,098032083	6,62935662	7,139551352	6,62935662
PHF10	8,434628228	8,21916852	8,511752654	8,97441459	9,071462363	8,903881846
PHF11	8,675957033	8,741466986	8,807354922	8,810571635	8,599912842	8,290018847
PHF12	6,129283017	5,285402219	6,108524457	6,62935662	6,741466986	6,882643049
PHF13	5,700439718	5,584962501	5,882643049	6,266786541	6,044394119	6,247927513
PHF14	8,124121312	7,918863237	8,071462363	8,54303182	8,321928095	8,836050355
PHF19	6,339850003	6,62935662	6,459431619	7,658211483	7,539158811	7,562242424
PHF2	7,894817763	7,707359132	7,651051691	7,876516947	7,912889336	7,894817763
PHF20	7,672425342	7,417852515	7,845490051	7,839203788	7,942514505	8,06608919
PHF20L1	9,068778278	8,845490051	9,055282436	8,348728154	8,503825738	8,569855608
PHF21A	7,820178962	7,894817763	7,813781191	8,751544059	8,257387843	8,400879436
PHF21B	0	0	0	1	0	0
PHF23	6,845490051	6,807354922	6,820178962	6,930737338	6,857980995	6,700439718
PHF3	9,955649908	9,86727874	10,01122726	10,32755264	10,203348	10,5028318
PHF5A	6,845490051	6,686500527	6,658211483	6,658211483	7,383704292	7,348728154
PHF6	7,882643049	7,839203788	7,832890014	8,087462841	8,118941073	8,144658243
PHF7	4,523561956	4,087462841	3,321928095	5,523561956	4,95419631	5,357552005
PHF8	7,209453366	7,169925001	6,781359714	7,375039431	7,022367813	7,209453366
PHGDH	2,584962501	2,807354922	3	3,321928095	3,700439718	3,169925001
PHGR1	0	0	0	0	0	0
PHIP	9,47370575	9,457380879	9,698704667	9,493855449	9,353146825	9,442943496
PHKA1	0	0	0	0	2,321928095	0

PHKA2	5,129283017	5,087462841	5,321928095	5,247927513	4,95419631	4,321928095
PHKB	7,6794801	7,577428828	7,651051691	7,826548487	7,539158811	7,851749041
PHKG1	0	1,584962501	0	2,807354922	0	3,807354922
PHKG2	4,459431619	4,584962501	4	4,087462841	4,459431619	0
PHLDA1	6,754887502	7,033423002	6,475733431	5,754887502	6,539158811	5,95419631
PHLDA2	5,426264755	5	5	7,266786541	6,409390936	7,539158811
PHLDA3	0	0	1	0	0	0
PHLDB1	1,584962501	0	2,584962501	3,321928095	2,321928095	2
PHLDB2	4,95419631	5,459431619	4,95419631	6,459431619	6,409390936	7,247927513
PHLDB3	3,459431619	3,321928095	3,321928095	1	0	0
PHLPP1	5,357552005	4,700439718	5,321928095	4,087462841	4,459431619	4,321928095
PHLPP2	5,285402219	5,129283017	5,392317423	6,06608919	5,285402219	5,169925001
PHOSPHO1	0	0	0	0	0	0
PHOSPHO2	4,459431619	3,807354922	3,700439718	3,807354922	4,807354922	2
PHOX2A	0	0	0	0	0	0
PHOX2B	0	0	0	4,321928095	3	0
PHPT1	5,044394119	5,247927513	5,044394119	2,321928095	3	0
PHRF1	7,169925001	7,022367813	7,434628228	7,515699838	7,383704292	7,700439718
PHTF1	5,781359714	5,781359714	5,614709844	5,700439718	5,977279923	5,169925001
PHTF2	7,011227255	7,044394119	7,033423002	7,129283017	7,17990909	6,882643049
PHYH	5,285402219	5,169925001	4,754887502	5,129283017	5,087462841	5,554588852
PHYHD1	0	0	0	0	1,584962501	0
PHYHIP	0	0	0	0	0	0
PHYHIPL	0	0	0	1	0	0
PI15	2,584962501	1,584962501	0	1	0	2
PI16	0	0	0	0	0	0
PI3	0	0	0	0	0	0
PI4K2A	5,906890596	6,087462841	5,754887502	4,700439718	4,247927513	4,64385619
PI4K2B	5,906890596	5,930737338	5,95419631	5,882643049	5,727920455	4,321928095
PI4KA	5,807354922	5,169925001	5,169925001	5,523561956	4,247927513	3,169925001
PI4KAP1	0	0	0	0	0	0
PI4KAP2	0	0	0	0	0	0
PI4KB	5,523561956	5,247927513	5,209453366	6	5,554588852	5,169925001
PIAS1	9,943979914	9,927777962	9,885696373	9,509775004	9,519636253	9,52160044
PIAS2	6,475733431	6,62935662	7,118941073	7,459431619	7,73470962	7,592457037
PIAS3	5,209453366	5,247927513	4,584962501	2,321928095	3,321928095	0
PIAS4	5,930737338	6,044394119	6,169925001	5,882643049	6,129283017	5,700439718
PIBF1	6,266786541	6,06608919	6,189824559	6,820178962	6,375039431	7,247927513
PICALM	8,703903573	8,721099189	8,584962501	8,257387843	7,965784285	8,330916878
PICK1	2,584962501	3,169925001	3,321928095	1	1,584962501	0
PID1	5,321928095	5,426264755	3,584962501	0	1,584962501	0
PIEZO1	5,807354922	5,727920455	5,247927513	6,06608919	4,807354922	5,169925001
PIEZO2	2,584962501	1	1	2,321928095	1,584962501	2
PIF1	3	2,584962501	3,169925001	1	3,321928095	0
PIGA	4,523561956	4,700439718	4,906890596	2,321928095	4,807354922	5,554588852
PIGB	5,807354922	5,64385619	5,426264755	4,857980995	5,459431619	5,169925001
PIGC	6,906890596	6,554588852	6,599912842	6,930737338	6,741466986	7,011227255
PIGF	4,64385619	5,044394119	4,247927513	5,357552005	4,807354922	3,807354922
PIGG	5,392317423	5,64385619	5,392317423	6,06608919	6,087462841	6,247927513
PIGH	5,044394119	4,906890596	5,044394119	5,247927513	4,459431619	2
PIGK	6,658211483	6,658211483	6,768184325	7,392317423	7,17990909	7,276124405
PIGL	5,491853096	5,169925001	5,614709844	6,906890596	6,539158811	7,055282436
PIGM	7,139551352	6,807354922	6,832890014	7,826548487	7,693486957	7,918863237
PIGN	6,375039431	6,807354922	6,426264755	6,584962501	6,087462841	6,247927513
PIGO	4	4,64385619	4	5,357552005	4,64385619	5,169925001
PIGP	6,303780748	5,857980995	5,584962501	7,076815597	7	7,46760555
PIGQ	2,807354922	1,584962501	3	2,321928095	2,321928095	0
PIGR	0	0	0	0	0	0

PIGS	6,807354922	7,087462841	7,098032083	6,50779464	6,700439718	6,169925001
PIGT	6,285402219	6,209453366	6,658211483	6,266786541	6,584962501	6,06608919
PIGU	4,247927513	4,584962501	3,700439718	3,807354922	4,459431619	2
PIGV	5	4,459431619	4,392317423	4,857980995	3,700439718	3,169925001
PIGW	5,169925001	4,754887502	4,523561956	4,700439718	4,459431619	2
PIGX	6,930737338	7,022367813	6,930737338	6,930737338	7,044394119	6,882643049
PIGY	0	0	0	0	0	0
PIGZ	0	1,584962501	0	0	0	0
PIH1D1	7,357552005	7,266786541	6,906890596	7,285402219	7,247927513	6,700439718
PIH1D2	0	0	1,584962501	0	0	0
PIK3AP1	7,77478706	7,839203788	7,599912842	7,426264755	7,348728154	7,247927513
PIK3C2A	7,321928095	7,129283017	7,475733431	7,499845887	7,584962501	7,894817763
PIK3C2B	4,321928095	4,64385619	4,523561956	5,700439718	5,087462841	4,64385619
PIK3C2G	0	0	0	2,321928095	1,584962501	3,169925001
PIK3C3	8,194756854	8,098032083	8,016808288	8,252665432	8,348728154	8,174925683
PIK3CA	8,21916852	8,098032083	8,17990909	8,562242424	8,483815777	9,008428622
PIK3CB	6,988684687	6,658211483	6,741466986	6,700439718	6,539158811	6,247927513
PIK3CD	8,965784285	8,813781191	8,731319031	9,505811554	9,497851837	9,447083226
PIK3CG	6	6,321928095	6,129283017	7	6,857980995	7,169925001
PIK3IP1	8,945443836	9,162391329	9,231221181	10,04984855	10,19105921	10,01680829
PIK3R1	10,54012804	10,5943246	10,57553925	11,06272077	11,027906	11,01402047
PIK3R2	3,807354922	3,321928095	3,700439718	0	3	0
PIK3R3	3,584962501	4,087462841	3,321928095	2,321928095	4,459431619	3,169925001
PIK3R4	7,129283017	6,845490051	6,857980995	7,129283017	7,491853096	7,055282436
PIK3R5	8,011227255	8,098032083	8,370687407	7,741466986	7,417852515	7,442943496
PIK3R6	2,321928095	2,584962501	2,584962501	2,807354922	2,321928095	0
PIKFYVE	8,076815597	7,839203788	7,994353437	8,087462841	7,924812504	8,016808288
PILRA	7,531381461	7,651051691	7,577428828	4,523561956	4,459431619	3,169925001
PILRB	3,321928095	1,584962501	2,807354922	1	2,321928095	0
PIM1	9,672425342	9,707359132	9,796039609	9,211888295	9,48984796	9,475733431
PIM2	8,74819285	8,665335917	8,744833837	9,116343961	9,562242424	8,77807713
PIM3	9,741466986	10,04575966	9,840777924	9,394462695	9,355351096	9,071462363
PIN1	5,672425342	5,554588852	5,614709844	6,06608919	5,781359714	5,169925001
PIN1P1	0	0	0	0	0	0
PIN4	6,768184325	6,523561956	6,569855608	6,700439718	7,044394119	6,409390936
PINK1	6,375039431	6,523561956	6,392317423	6,266786541	6,247927513	5,357552005
PINX1	3,321928095	3,807354922	3	1	3,700439718	2,584962501
PIP	0	0	0	0	0	0
PIP4K2A	9,052568051	8,977279923	8,960001932	9,618385502	9,556506055	9,434628228
PIP4K2B	5,727920455	5,781359714	6	6,50779464	6,285402219	5,554588852
PIP4K2C	6,339850003	6,727920455	6,599912842	5,129283017	6,321928095	6,491853096
PIP5K1A	6,62935662	7,033423002	7,257387843	7,906890596	7,475733431	7,87036472
PIP5K1B	4,169925001	2,807354922	3	4,321928095	2,321928095	5,357552005
PIP5K1C	4	4,087462841	3,807354922	4,087462841	2,321928095	4,321928095
PIP5K1P1	0	0	0	0	0	0
PIP5KL1	0	0	0	2,807354922	2,321928095	4,95419631
PIPOX	0	2,584962501	1	2,807354922	3	3,169925001
PIPSL	0	3,169925001	2	4,523561956	3	2
PIR	5,523561956	5	5,392317423	2,807354922	0	0
PIRT	0	0	0	0	0	0
PISD	5,584962501	5,459431619	5,807354922	5,247927513	4,807354922	5,169925001
PITHD1	6,672425342	7,022367813	6,857980995	7,876516947	7,73470962	7,721099189
PITPNA	8,022367813	7,936637939	7,665335917	7,813781191	8,044394119	7,977279923
PITPNB	7,787902559	7,768184325	7,845490051	7,531381461	7,599912842	7,515699838
PITPNC1	6,658211483	6,754887502	7,055282436	8,224001674	7,942514505	8,049848549
PITPNM1	4,321928095	3,321928095	4,459431619	2,321928095	3	0
PITPNM2	3,459431619	2,807354922	3,807354922	2,321928095	0	2
PITPNM3	2,321928095	0	2,584962501	5,129283017	3	4,64385619

PITRM1	5	5,321928095	5,044394119	5,614709844	5,554588852	5,169925001
PITX1	0	0	0	0	0	0
PITX2	0	1	0	0	0	0
PITX3	0	0	0	0	0	0
PIWIL1	1	1,584962501	0	1	1,584962501	4,321928095
PIWIL2	1	2,321928095	1,584962501	6	5,64385619	6,06608919
PIWIL3	1	0	0	0	0	0
PIWIL4	3,807354922	2,807354922	3,321928095	2,321928095	3,321928095	2
PJA1	6,781359714	6,918863237	7,011227255	7,392317423	7,74819285	7,442943496
PJA2	9,63481105	9,609178738	9,56414949	9,350939182	9,471675214	9,375039431
PKD1	2,807354922	4,700439718	4,247927513	4,523561956	4,95419631	3,807354922
PKD1L1	0	1	0	0	2,321928095	3,807354922
PKD1L2	0	0	0	3,321928095	1,584962501	3,169925001
PKD1L3	0	0	2	1	3	3,169925001
PKD1P1	0	0	0	0	0	0
PKD2	4,857980995	5,087462841	4,95419631	5,754887502	4,95419631	5,169925001
PKD2L1	1	0	0	2,807354922	0	4,321928095
PKD2L2	0	0	0	1	2,321928095	3,169925001
PKDCC	0	0	0	0	0	0
PKDREJ	0	0	0	0	0	2
PKHD1	2,321928095	1,584962501	0	5,700439718	4,247927513	6,06608919
PKHD1L1	2,321928095	0	1	0	3	0
PKIA	5,832890014	5,95419631	5,554588852	6,554588852	6,614709844	5,357552005
PKIB	1	2,584962501	1	0	1,584962501	0
PKIG	3,459431619	4,169925001	3,169925001	4,321928095	3	3,807354922
PKLR	0	0	0	2,321928095	0	3,169925001
PKMYT1	0	0	0	0	0	0
PKN1	4,321928095	4,64385619	4,857980995	5,614709844	5,169925001	3,807354922
PKN2	7,971543554	7,714245518	7,721099189	8,174925683	7,768184325	7,813781191
PKN3	0	2,321928095	0	0	0	2
PKNOX1	6,06608919	6,266786541	6,22881869	6	6,321928095	6,700439718
PKNOX2	0	0	0	0	0	0
PKP1	0	0	0	0	0	0
PKP2	1	1	0	1	0	0
PKP3	0	0	0	0	0	0
PKP4	5,247927513	5,087462841	5,807354922	6,06608919	5,781359714	5,554588852
PLA1A	0	0	0	0	0	0
PLA2G10	0	0	0	0	0	0
PLA2G12A	5,129283017	4,584962501	5,491853096	5	5,727920455	6,06608919
PLA2G12B	0	0	0	0	0	2
PLA2G15	4,169925001	3,906890596	4,169925001	2,321928095	0	3,169925001
PLA2G16	6,584962501	6,658211483	6,930737338	6,375039431	5,977279923	6,321928095
PLA2G18	0	0	0	0	0	0
PLA2G2A	0	0	0	0	0	0
PLA2G2C	0	0	0	0	0	0
PLA2G2D	0	0	0	0	0	0
PLA2G2E	0	0	0	0	0	0
PLA2G2F	0	0	0	0	0	0
PLA2G3	0	0	0	0	0	0
PLA2G4A	4,857980995	5	4,754887502	0	2,321928095	0
PLA2G4B	0	0	0	0	0	0
PLA2G4C	5,426264755	5,247927513	5,209453366	4,087462841	4,247927513	3,169925001
PLA2G4D	0	0	0	0	1,584962501	0
PLA2G4E	0	0	0	0	0	0
PLA2G4F	0	0	0	0	0	0
PLA2G5	0	0	0	0	0	0
PLA2G6	2,807354922	1,584962501	3,169925001	2,321928095	3,321928095	2
PLA2G7	10,28886607	10,15860969	10,28193003	5,247927513	6,129283017	2

PLA2R1	0	1,584962501	1,584962501	0	1,584962501	3,169925001
PLAA	6,14974712	6,209453366	6,50779464	6,321928095	5,977279923	6,409390936
PLAC1	0	0	0	0	0	0
PLAC4	0	0	1	0	0	0
PLAC8	8,033423002	8,049848549	8,209453366	8,044394119	8,194756854	7,832890014
PLAC8L1	0	0	0	0	1,584962501	3,169925001
PLAC9	0	0	0	0	0	0
PLAG1	4,459431619	5,392317423	5,129283017	6	5,727920455	6,06608919
PLAGL1	5,930737338	6,266786541	5,781359714	5,700439718	5,781359714	6,321928095
PLAGL2	5,672425342	5,523561956	5,727920455	5,614709844	5,727920455	6,569855608
PLAT	2,321928095	2,584962501	0	4,523561956	4,807354922	5,700439718
PLAU	5,906890596	5,554588852	5,700439718	0	3	0
PLAUR	8,599912842	8,915879379	8,936637939	6,820178962	8,174925683	7,055282436
PLB1	0	1	0	3,321928095	3	5,169925001
PLBD1	8,169925001	8,164906927	7,845490051	2,807354922	3,700439718	0
PLBD2	6,375039431	6,285402219	6,087462841	3,807354922	4,247927513	0
PLCB1	5,357552005	5,169925001	5,906890596	6,459431619	6,375039431	5,832890014
PLCB2	7,055282436	6,768184325	6,700439718	6,129283017	6,189824559	5,169925001
PLCB3	3,584962501	4,169925001	3	0	0	0
PLCB4	2,321928095	0	2	2,807354922	3	4,64385619
PLCD1	4,169925001	3	3,700439718	0	0	0
PLCD3	1	2,321928095	0	2,807354922	2,321928095	5,169925001
PLCD4	0	0	0	2,807354922	2,321928095	3,169925001
PLCE1	1	2,321928095	2,584962501	4,087462841	3	4,64385619
PLCG1	5,426264755	5,129283017	5,209453366	6,62935662	5,930737338	5,832890014
PLCG2	6,977279923	7,257387843	6,965784285	7,614709844	7,599912842	7,787902559
PLCH1	1	0	0	0	0	0
PLCH2	3,906890596	4,087462841	3,906890596	5,523561956	5,285402219	5,700439718
PLCL1	5,523561956	5,169925001	5,129283017	6,62935662	5,857980995	5,95419631
PLCL2	7,693486957	7,451211112	7,321928095	7,864186145	7,807354922	7,813781191
PLCXD1	5	4,754887502	4,64385619	5,459431619	5,169925001	5,700439718
PLCXD2	5	5,129283017	5,247927513	6,06608919	6,375039431	6,754887502
PLCXD3	3,459431619	3	3,321928095	5,614709844	5,64385619	6,700439718
PLCZ1	1	0	1	0	0	0
PLD1	4,392317423	4,392317423	4,95419631	5,247927513	4,247927513	4,64385619
PLD2	1,584962501	3	3,321928095	0	0	0
PLD3	7,17990909	7,475733431	7,348728154	5,614709844	5,930737338	4,321928095
PLD4	2,321928095	0	1	0	0	0
PLD5	3,584962501	2,807354922	1	4,700439718	5,459431619	5,357552005
PLD6	4,523561956	3,169925001	3,584962501	5,129283017	4,459431619	4,321928095
PLEC	5,614709844	5,807354922	5,754887502	4,087462841	5,169925001	3,169925001
PLEK	9,33315535	9,348728154	9,049848549	8,174925683	8,531381461	8,271463028
PLEK2	0	0	0	0	0	0
PLEKHA1	8,768184325	8,960001932	9,038918989	9,485829309	9,461479447	9,375039431
PLEKHA2	8,797661526	8,614709844	8,531381461	8,851749041	8,912889336	9,131856961
PLEKHA3	7,50779464	7,375039431	7,366322214	7,768184325	7,672425342	7,64385619
PLEKHA4	2,321928095	2,807354922	3,584962501	2,807354922	3,700439718	4,321928095
PLEKHA5	6,14974712	6,14974712	6,22881869	6,820178962	7,348728154	7,787902559
PLEKHA6	0	0	0	2,807354922	3,321928095	3,807354922
PLEKHA7	3,807354922	3,584962501	3,906890596	1	1,584962501	5,357552005
PLEKHA8	5,044394119	5,321928095	5,321928095	4,523561956	3,700439718	3,807354922
PLEKHA8P1	3,700439718	3,584962501	3,807354922	2,321928095	4	2
PLEKHB1	3,584962501	4,087462841	4,584962501	5,129283017	4,459431619	2
PLEKHB2	8,044394119	8,113742166	7,918863237	7,129283017	7,491853096	7,011227255
PLEKHD1	0	0	0	3,807354922	0	0
PLEKHF1	5,357552005	5,169925001	5,754887502	6,409390936	5,781359714	5,554588852
PLEKHF2	7,257387843	6,930737338	7,022367813	6,554588852	7,06608919	7,442943496
PLEKHG1	5,700439718	5,129283017	5,523561956	6,22881869	6,375039431	6,247927513

PLEKHG2	4,321928095	4,700439718	4,906890596	5	4,95419631	3,807354922
PLEKHG3	6,491853096	6,727920455	6,339850003	2,807354922	4,247927513	2
PLEKHG4	4,459431619	5,087462841	3,906890596	5,832890014	5,554588852	5,554588852
PLEKHG4B	0	0	0	0	0	0
PLEKHG5	1	1	1,584962501	1	0	3,169925001
PLEKHG6	0	0	0	0	0	0
PLEKHG7	3	2,321928095	2,807354922	3,807354922	1,584962501	3,169925001
PLEKHH1	0	0	0	0	0	0
PLEKHH2	2,321928095	1	1	0	1,584962501	0
PLEKHH3	0	0	1	3,321928095	1,584962501	4,64385619
PLEKHJ1	5,491853096	5,672425342	5,491853096	5,614709844	6,087462841	5,357552005
PLEKHM1	5,392317423	5,727920455	5,523561956	4,857980995	4,64385619	4,321928095
PLEKHM2	7,199672345	7,483815777	7,599912842	6,459431619	6,584962501	7,312882955
PLEKHM3	5,906890596	6,357552005	6,129283017	5,523561956	6,044394119	5,95419631
PLEKHN1	2,584962501	1	1,584962501	0	0	0
PLEKHO1	9,658211483	9,87958325	9,938109326	7,741466986	8,082149041	7,787902559
PLEKHO2	7,022367813	7,17990909	6,918863237	3,807354922	4,95419631	3,169925001
PLG	0	0	0	1	1,584962501	2
PLGLA	0	0	0	0	0	0
PLGLB1	0	0	0	0	0	0
PLGLB2	0	0	0	0	0	0
PLIN1	0	2,321928095	1,584962501	0	0	0
PLIN2	7,475733431	7,209453366	7,285402219	6,266786541	6,584962501	5,554588852
PLIN3	6,988684687	7,169925001	7,139551352	5,930737338	6,658211483	6,321928095
PLIN4	0	0	0	0	0	0
PLIN5	1	0	1,584962501	0	0	0
PLK1	2,321928095	1	2,584962501	0	3,700439718	3,169925001
PLK2	3,584962501	2,321928095	2,584962501	0	0	0
PLK3	5,614709844	5,882643049	5,700439718	4,700439718	5,087462841	5,357552005
PLK4	2,807354922	2,321928095	2	0	2,321928095	0
PLK5	0	0	0	0	0	0
PLL1	1	2,584962501	2	3,321928095	3,700439718	0
PLN	0	0	0	0	0	0
PLOD1	4,700439718	4,95419631	3,906890596	0	0	0
PLOD2	0	1	0	2,321928095	0	3,169925001
PLOD3	5,321928095	6,108524457	5,882643049	4,523561956	4	3,169925001
PLP1	0	0	0	0	0	0
PLP2	7,936637939	8,118941073	8,238404739	7,781359714	8,194756854	7,942514505
PLRG1	7,189824559	7,129283017	7,108524457	8,139551352	8,103287808	8,271463028
PLS1	4,169925001	4,169925001	3,169925001	5,523561956	5,169925001	7,098032083
PLS3	0	1,584962501	1,584962501	0	0	0
PLSCR1	8,539158811	8,588714636	8,413627929	6,906890596	6,882643049	6,700439718
PLSCR2	0	0	0	2,807354922	3	0
PLSCR4	1	0	1,584962501	1	0	0
PLSCR5	1,584962501	0	0	0	0	0
PLTP	0	0	0	0	0	0
PLVAP	0	0	0	0	0	3,807354922
PLXDC1	3,807354922	3,906890596	2,807354922	5,459431619	4,807354922	5,169925001
PLXDC2	8,921840937	8,836050355	8,854868383	2,807354922	4,459431619	4,95419631
PLXNA1	6,266786541	6	6,087462841	4,321928095	4,64385619	2
PLXNA2	4,700439718	4,087462841	4,584962501	5,754887502	5,459431619	5,95419631
PLXNA3	4,64385619	4,169925001	4,247927513	4,087462841	3,321928095	3,169925001
PLXNA4	4,523561956	4,584962501	4,584962501	5,459431619	5,554588852	5,554588852
PLXNB1	0	0	0	0	0	0
PLXNB2	5,247927513	5,727920455	5,807354922	0	2,321928095	0
PLXNB3	0	0	0	0	0	0
PLXNC1	8,6794801	8,744833837	8,951284715	7,055282436	7,087462841	6,754887502
PLXND1	6,807354922	6,977279923	7,285402219	6,321928095	5,930737338	5,700439718

PM20D1	0	0	0	0	0	0
PM20D2	6,930737338	6,741466986	6,62935662	8,554588852	8,139551352	8,903881846
PMAIP1	8,22881869	8,139551352	7,845490051	8,451211112	8,491853096	8,700439718
PMCH	0	0	0	0	0	0
PMCHL1	0	0	0	1	2,321928095	3,169925001
PMCHL2	3,700439718	4,087462841	3,700439718	6,06608919	6,189824559	6,62935662
PMEL	0	0	0	0	0	0
PMEPA1	6,189824559	6,22881869	6,727920455	7,459431619	7,539158811	7,64385619
PMF1	5,129283017	5,392317423	5,247927513	3,321928095	3,321928095	4,321928095
PMF1-BGLAP	0	0	0	0	0	0
PMFBP1	3	3,906890596	3,700439718	0	0	0
PML	6,539158811	6,375039431	6,741466986	6,459431619	6,658211483	6,169925001
PMM1	4,169925001	5,321928095	4,906890596	4,087462841	5,554588852	5,700439718
PMM2	5,807354922	6	6,087462841	6,22881869	5,930737338	5,700439718
PMP2	0	0	0	0	0	0
PMP22	7,108524457	7,011227255	7,14974712	1	3,321928095	2
PMPCA	5,209453366	5,523561956	5,392317423	5,930737338	5,554588852	3,807354922
PMPCB	7,569855608	7,515699838	7,491853096	8,13442632	8,243173983	7,977279923
PMS1	6,475733431	6,409390936	6,189824559	6,700439718	6,50779464	6,700439718
PMS2	3,700439718	4	3,700439718	4,321928095	4,247927513	3,169925001
PMS2CL	2,321928095	2,321928095	1,584962501	2,321928095	0	3,169925001
PMS2P1	2,584962501	1,584962501	1,584962501	0	2,321928095	0
PMS2P3	1,584962501	2,584962501	1,584962501	0	3,700439718	3,807354922
PMS2P4	0	0	0	0	0	0
PMS2P5	0	0	0	0	0	0
PMVK	4,754887502	5,169925001	4,95419631	4,700439718	4,459431619	3,807354922
PNCK	0	0	0	0	0	2
PNISR	11,50481899	11,41943355	11,62021983	11,25620869	11,05596023	11,169925
PNKD	5,930737338	6,22881869	5,857980995	5,523561956	5,64385619	4,321928095
PNKP	5,129283017	5,554588852	5	5,614709844	5,459431619	5,169925001
PNLDC1	0	0	0	0	1,584962501	2
PNLIP	0	0	0	4,700439718	2,321928095	5,357552005
PNLIPRP1	0	0	0	0	1,584962501	2
PNLIPRP2	0	0	0	0	0	0
PNLIPRP3	0	0	0	0	0	0
PNMA1	6,459431619	6,087462841	6	6,50779464	6,584962501	6,169925001
PNMA2	0	0	0	0	0	0
PNMA3	0	1,584962501	2	0	0	0
PNMA5	0	1	1,584962501	0	0	0
PNMA6A	0	1,584962501	0	0	0	0
PNMT	0	0	0	0	0	0
PNN	9,513727596	9,326429487	9,693486957	9,960001932	9,744833837	9,977279923
PNO1	5,882643049	5,781359714	6	6,129283017	5,392317423	6,409390936
PNOC	4,169925001	3,807354922	3,321928095	3,807354922	4,459431619	3,169925001
PNP	6,108524457	6,129283017	5,930737338	6,22881869	5,459431619	5,700439718
PNPLA1	0	1	0	0	0	0
PNPLA2	6,409390936	6,442943496	6,475733431	6,129283017	5,857980995	3,807354922
PNPLA3	0	0	1	4,087462841	3,700439718	4,321928095
PNPLA4	3,807354922	4,523561956	3,321928095	3,807354922	4	4,95419631
PNPLA5	0	0	0	0	0	0
PNPLA6	4,523561956	3,906890596	4,459431619	4,321928095	3,321928095	0
PNPLA7	2,584962501	3,169925001	2	1	1,584962501	0
PNPLA8	8,092757141	7,894817763	7,741466986	7,409390936	7,348728154	7,011227255
PNPO	5,285402219	5,285402219	4,392317423	2,807354922	4,247927513	3,169925001
PNPT1	5,491853096	5,459431619	5,247927513	6,62935662	5,285402219	6,321928095
PNRC1	10,62570884	10,5849625	10,55074679	9,856425529	10,32755264	9,649256178
PNRC2	7,832890014	7,8008999	7,839203788	7,554588852	7,977279923	7,851749041
POC1A	3,321928095	2,584962501	1	0	0	0

POC1B	7,21916852	7,339850003	7	7,409390936	7,693486957	7,515699838
POC1B-GALNT4	0	0	0	0	0	0
POC5	4,700439718	5,087462841	4,95419631	5,832890014	4,459431619	5,700439718
PODN	0	1	0	0	0	0
PODNL1	0	0	0	0	0	3,169925001
PODXL	2,321928095	1,584962501	3,169925001	0	0	0
PODXL2	0	0	0	0	0	0
POF1B	0	0	0	0	1,584962501	0
POFUT1	5,209453366	5,321928095	5,614709844	4,857980995	4,64385619	3,807354922
POFUT2	5,95419631	5,459431619	5,807354922	6,129283017	6,129283017	5,554588852
POGK	7	6,614709844	6,832890014	6,882643049	6,189824559	7,129283017
POGLUT1	7,357552005	7,14974712	7	7,531381461	7,50779464	7,247927513
POGZ	8,17990909	8	8,285402219	8,204571144	8,159871337	8,06608919
POLA1	5,64385619	5,807354922	5,781359714	5,832890014	6,044394119	4,95419631
POLA2	4,459431619	3,906890596	4,523561956	0	4	0
POLB	6,700439718	6,781359714	6,569855608	6	5,727920455	5,554588852
POLD1	3,807354922	4,087462841	3	3,807354922	3,700439718	3,807354922
POLD2	4,169925001	4,754887502	3,906890596	4,087462841	4,95419631	4,321928095
POLD3	6,714245518	6,459431619	6,918863237	6,554588852	6,087462841	6,491853096
POLD4	4,459431619	5,129283017	5,523561956	2,807354922	4,95419631	0
POLDIP2	5,781359714	5,247927513	5,357552005	5,832890014	6,129283017	5,832890014
POLDIP3	7,033423002	6,781359714	6,942514505	6,882643049	7,139551352	6,820178962
POLE	4,523561956	4,95419631	5,129283017	4,857980995	5,285402219	5,832890014
POLE2	2,584962501	3,169925001	3	2,807354922	0	4,321928095
POLE3	8,665335917	8,939579214	8,724513853	9,366322214	9,370687407	9,21916852
POLE4	6,087462841	6,06608919	5,672425342	5,357552005	4,247927513	0
POLG	6,686500527	6,882643049	6,807354922	6,794415866	6,129283017	6,569855608
POLG2	6,426264755	6,569855608	6,906890596	7,392317423	7	7,721099189
POLH	3,459431619	3,584962501	2,584962501	2,321928095	3,321928095	2
POLI	5,807354922	5,285402219	5,247927513	5,930737338	5,554588852	5,554588852
POLK	7,426264755	7,383704292	7,303780748	7,599912842	7,599912842	7,787902559
POLL	4,857980995	4,754887502	4,95419631	5,614709844	4,64385619	3,169925001
POLM	4,459431619	4,857980995	4,584962501	4,700439718	4,95419631	4,95419631
POLN	3	3	2	6,459431619	5,977279923	7,276124405
POLQ	1	2,584962501	0	0	0	0
POLR1A	4,392317423	4,906890596	5,129283017	4,857980995	4,807354922	4,321928095
POLR1B	6,06608919	5,554588852	5,781359714	6,700439718	6,375039431	6,930737338
POLR1C	4,584962501	4,754887502	4,169925001	5,832890014	6,539158811	6,06608919
POLR1D	7,693486957	7,787902559	7,8008999	8,562242424	8,503825738	8,569855608
POLR1E	4,700439718	4,584962501	4,247927513	5,129283017	5,459431619	5,169925001
POLR2A	8,640244936	8,758223215	8,64385619	8,224001674	8,321928095	7,700439718
POLR2B	9,082149041	9,174925683	9,154818109	9,517669388	9,544964433	9,426264755
POLR2C	6,700439718	6,584962501	6,658211483	6,882643049	6,807354922	6,930737338
POLR2D	6,14974712	6,129283017	6,087462841	6,554588852	7,022367813	6,569855608
POLR2E	9,002815016	9,312882955	9,375039431	8,294620749	8,592457037	7,592457037
POLR2F	5,930737338	6,06608919	5,614709844	6,22881869	5,169925001	6,06608919
POLR2G	6,906890596	7,087462841	6,832890014	6,375039431	7,209453366	5,832890014
POLR2H	6,087462841	6,459431619	6,285402219	6,321928095	6,584962501	5,832890014
POLR2I	5,129283017	5,285402219	4,584962501	4,523561956	5,169925001	0
POLR2J	5,807354922	6,129283017	5,906890596	5,523561956	5,727920455	4,321928095
POLR2J2	0	0	0	0	0	3,169925001
POLR2J3	1	1	2,584962501	1	0	0
POLR2J4	1	1	0	3,321928095	2,584962501	4,087462841
POLR2K	7,539158811	7,321928095	7,076815597	7,189824559	7,569855608	7,348728154
POLR2L	6,686500527	6,807354922	6,807354922	6,129283017	5,727920455	5,700439718
POLR2M	6,768184325	6,965784285	6,599912842	7,515699838	7,348728154	7,832890014
POLR3A	5,426264755	5,129283017	4,857980995	6	6,321928095	5,554588852
POLR3B	4,459431619	4,392317423	4,169925001	3,321928095	4,807354922	4,95419631

POLR3C	4,169925001	4,584962501	4,64385619	3,321928095	3	3,169925001
POLR3D	6,754887502	6,523561956	6,491853096	6,584962501	6,614709844	6,569855608
POLR3E	6,087462841	5,614709844	5,700439718	7,247927513	6,658211483	6,754887502
POLR3F	4,64385619	3,906890596	3,906890596	4,523561956	4,64385619	2
POLR3G	3,321928095	3	3,807354922	4,700439718	3,700439718	5,357552005
POLR3GL	8	8,266786541	8,299208018	8,224001674	8,361943774	7,761551232
POLR3H	4,700439718	3,906890596	3,321928095	1	3,700439718	0
POLR3K	5,727920455	5,523561956	5,357552005	4,523561956	5,857980995	4,64385619
POLRMT	3,321928095	3,321928095	3,321928095	2,321928095	3	4,95419631
POM121	4,523561956	4,64385619	3,321928095	3,321928095	3,700439718	5,169925001
POM121C	5,906890596	5,832890014	6,044394119	6,882643049	6,658211483	6,321928095
POM121L10P	0	0	0	0	0	0
POM121L12	0	0	0	0	0	0
POM121L1P	0	0	0	0	0	0
POM121L2	0	0	0	0	0	0
POM121L4P	0	0	0	0	0	0
POM121L8P	0	0	0	0	0	0
POM121L9P	0	0	0	2,807354922	0	3,807354922
POMC	2,807354922	3	3,584962501	1	4,247927513	3,807354922
POMGNT1	3,906890596	3,700439718	4	3,321928095	4,247927513	0
POMP	9,712527	9,620219826	9,503825738	8,980139578	9,21916852	8,977279923
POMT1	3	4	4,584962501	2,807354922	1,584962501	0
POMT2	4,169925001	5,426264755	4,700439718	4,700439718	3,700439718	0
POMZP3	1	0	0	0	0	0
PON1	0	0	0	1	0	0
PON2	4	4,169925001	4,523561956	2,321928095	2,321928095	2
PON3	1	0	0	0	1,584962501	0
POP1	5,64385619	5,285402219	4,906890596	5,129283017	3,321928095	4,64385619
POP4	6,807354922	6,714245518	6,906890596	6,06608919	6,087462841	5,832890014
POP5	4,906890596	4,584962501	5,459431619	3,321928095	4,459431619	0
POP7	6,614709844	6,727920455	6,832890014	6,906890596	6,409390936	7,055282436
POPDC2	1	1	2,584962501	4,700439718	2,321928095	0
POPDC3	0	0	0	0	0	0
POR	5,426264755	6,087462841	6,247927513	5,832890014	5,977279923	6,409390936
PORCN	3,807354922	3,700439718	3,321928095	2,807354922	0	0
POSTN	1,584962501	1,584962501	0	2,807354922	0	3,169925001
POT1	5,554588852	5,285402219	4,64385619	5,700439718	6,044394119	6,0608919
POTEA	0	0	0	1	1,584962501	0
POTEB	0	0	0	0	0	0
POTEC	0	0	0	0	1,584962501	3,169925001
POTED	0	0	0	0	0	0
POTEE	0	0	0	0	0	0
POTEF	0	0	0	0	0	0
POTEG	0	0	0	0	0	0
POTEH	0	0	0	0	0	0
POTEKP	0	0	0	1	0	0
POTEM	0	0	0	0	0	0
POU1F1	0	0	0	0	0	0
POU2AF1	5,209453366	5,392317423	5,247927513	6,189824559	4,95419631	6,409390936
POU2F1	7,599912842	7,515699838	7,700439718	7,554588852	7,266786541	7,787902559
POU2F2	8,204571144	8,344295908	8,636624621	9,459431619	9,233619677	9,461479447
POU2F3	0	0	0	0	0	0
POU3F1	2,321928095	1	3,584962501	2,807354922	2,321928095	3,807354922
POU3F2	2,321928095	0	0	3,321928095	3	3,807354922
POU3F3	0	0	0	0	0	0
POU3F4	0	0	0	0	4	2
POU4F1	1,584962501	1,584962501	0	2,321928095	0	2
POU4F2	0	0	0	0	0	0

POU4F3	0	0	0	0	0	0
POU5F1	1	0	0	1	0	0
POU5F1B	0	0	0	0	0	0
POU5F1P3	0	0	0	0	0	0
POU5F1P4	0	0	0	0	0	0
POU5F2	1,584962501	1	2,584962501	0	2,321928095	2
POU6F1	3	3,321928095	3,321928095	4,087462841	4,64385619	4,321928095
POU6F2	0	1,584962501	0	0	1,584962501	3,169925001
PP2D1	0	0	1	0	0	0
PPA1	6,845490051	7,266786541	6,820178962	7,321928095	7,087462841	7,375039431
PPA2	7,312882955	7,257387843	7,257387843	7,129283017	7,087462841	7,409390936
PPAN	2,584962501	3,321928095	4,087462841	0	3	2
PPAN-P2RY11	0	0	0	0	0	0
PPARA	6,62935662	6,554588852	6,599912842	6,266786541	6,189824559	5,357552005
PPARD	5,169925001	5,357552005	4,754887502	5,700439718	5,930737338	6,491853096
PPARG	2,321928095	1,584962501	0	0	0	3,169925001
PPARGC1A	0	0	1,584962501	2,807354922	1,584962501	2
PPARGC1B	6,339850003	6,392317423	6,247927513	3,807354922	3	0
PPAT	5,807354922	6,044394119	6,108524457	6,266786541	6,321928095	7,055282436
PPBP	6,569855608	6,807354922	6,50779464	7,499845887	7,807354922	7,977279923
PPCDC	3,321928095	1,584962501	3,169925001	0	1,584962501	2
PPCS	8,46760555	8,622051819	8,45532722	8,103287808	8,321928095	7,672425342
PPDPF	7,409390936	7,693486957	7,672425342	7,864186145	8,033423002	7,700439718
PPEF1	0	0	0	1	0	0
PPEF2	0	0	0	0	2,321928095	3,169925001
PPFIA1	7,813781191	7,930737338	7,994353437	7,672425342	7,348728154	7,942514505
PPFIA2	2,321928095	0	3,169925001	2,321928095	4,247927513	5,357552005
PPFIA3	0	0	0	0	0	0
PPFIA4	3,321928095	3,807354922	4,247927513	4,087462841	0	2
PPFIBP1	3,807354922	3,321928095	3,906890596	3,807354922	4	4,95419631
PPFIBP2	4,584962501	4,169925001	4,459431619	4,087462841	1,584962501	3,807354922
PPHLN1	8,784634846	8,665335917	8,64385619	8,912889336	9,005624549	9,197216693
PPIA	6,807354922	6,977279923	6,599912842	7,741466986	7,599912842	7,894817763
PPIAL4A	0	0	0	0	0	0
PPIAL4C	0	0	0	0	0	0
PPIAL4D	0	0	0	0	0	0
PPIAL4E	0	0	0	0	0	0
PPIAL4F	0	0	0	0	0	0
PPIAL4G	0	0	0	0	0	0
PPIB	7,098032083	7,442943496	7,108524457	7,022367813	7,285402219	6,569855608
PPIC	0	0	0	0	0	0
PPID	7,6794801	7,475733431	7,011227255	7,357552005	7,64385619	7,348728154
PPIE	5,523561956	5,672425342	5,169925001	5,754887502	6,087462841	6,700439718
PPIEL	2,807354922	1	0	3,807354922	3	2
PPIF	7,554588852	7,592457037	7,321928095	6,459431619	6,321928095	5,169925001
PPIG	10,42311591	10,37937837	10,40832974	10,35645197	10,37721053	10,51076417
PPIH	5,357552005	5,285402219	5,584962501	5,832890014	6,044394119	5,169925001
PPII1	5,491853096	4,906890596	5,169925001	4,857980995	5,087462841	5,554588852
PPII2	6,882643049	7	6,741466986	6,700439718	6,614709844	6,62935662
PPII3	6,22881869	6,392317423	6,62935662	6,459431619	6,700439718	6,409390936
PPII4	8,405141463	8,098032083	8,199672345	8,810571635	8,618385502	9,197216693
PPII6	0	0	0	0	1,584962501	3,169925001
PPIP5K1	0	3	3,321928095	2,321928095	1,584962501	0
PPIP5K2	8,459431619	8,370687407	8,199672345	7,876516947	8,022367813	7,592457037
PPL	0	0	0	0	1,584962501	0
PPM1A	7,636624621	7,276124405	7,348728154	7,826548487	7,876516947	7,787902559
PPM1B	7,672425342	7,721099189	7,700439718	8,487840034	8,573647187	8,21916852
PPM1D	6,64385619	6,357552005	6,614709844	6,266786541	6,285402219	6,62935662

PPM1E	0	0	0	0	0	2
PPM1F	6,50779464	6,459431619	6,426264755	4,700439718	3,700439718	4,95419631
PPM1G	8,076815597	8,169925001	8,22881869	8,375039431	8,413627929	8,189824559
PPM1H	1	1,584962501	1	0	1,584962501	0
PPM1J	1	0	0	0	0	0
PPM1K	7,918863237	7,851749041	7,434628228	8,139551352	8,14974712	7,87036472
PPM1L	5,129283017	5,087462841	5,491853096	4,523561956	4,64385619	3,807354922
PPM1M	5,285402219	5,523561956	5,614709844	3,807354922	4,247927513	2
PPM1N	2,321928095	3,700439718	3,807354922	2,321928095	3,321928095	0
PPME1	5,882643049	5,882643049	6	6,658211483	6,807354922	6,491853096
PPOX	4,247927513	4,459431619	3,700439718	3,321928095	3	2
PPP1CA	7,055282436	7,108524457	7,247927513	6,266786541	6,832890014	6,321928095
PPP1CB	9,388017285	9,079484784	9,157346935	8,930737338	9,162391329	8,77807713
PPP1CC	9,118941073	9,095397023	9,044394119	8,758223215	8,957102042	8,73470962
PPP1R10	7,348728154	7,459431619	7,442943496	9,920352855	9,537218401	9,962896005
PPP1R11	6,741466986	6,62935662	6,599912842	6,820178962	6,584962501	6,06608919
PPP1R12A	10,15101654	9,958552715	10,08480839	10,027906	10,06474276	9,917372079
PPP1R12B	6,857980995	6,807354922	7,285402219	7,247927513	6,882643049	7,312882955
PPP1R12C	7,577428828	7,531381461	7,599912842	7,672425342	7,348728154	7,741466986
PPP1R13B	4	4,169925001	4	2,807354922	3,321928095	3,169925001
PPP1R13L	3	3,321928095	3,169925001	0	0	4,321928095
PPP1R14A	2,807354922	3	2,584962501	2,807354922	2,321928095	0
PPP1R14B	6,285402219	5,977279923	6,614709844	6,321928095	6,129283017	6,169925001
PPP1R14C	1	1,584962501	0	0	0	0
PPP1R14D	0	0	0	0	0	0
PPP1R15A	7,876516947	8,016808288	8,098032083	7,942514505	8,113742166	8,491853096
PPP1R15B	8,361943774	8,475733431	8,339850003	7,930737338	8,194756854	8,087462841
PPP1R16A	2,807354922	3	2,584962501	1	0	0
PPP1R16B	6,942514505	7,011227255	7,189824559	8,224001674	8,379378367	8,797661526
PPP1R17	0	0	0	0	0	0
PPP1R18	8,764871591	9,131856961	8,888743249	8,897845456	8,836050355	9,019590728
PPP1R1A	0	0	0	0	0	0
PPP1R1B	0	0	0	0	0	0
PPP1R1C	0	0	0	0	0	0
PPP1R2	8,21916852	8,113742166	7,900866808	8,731319031	8,447083226	8,569855608
PPP1R21	6,539158811	6,409390936	6,169925001	6,06608919	5,977279923	6,247927513
PPP1R26	3,906890596	2,584962501	0	0	0	0
PPP1R27	0	0	0	0	0	0
PPP1R32	0	0	1	3,321928095	1,584962501	2
PPP1R35	5,584962501	5,727920455	6,087462841	6,554588852	6,832890014	6,700439718
PPP1R36	0	0	0	0	0	2
PPP1R37	1,584962501	2,321928095	3,906890596	3,807354922	3,321928095	4,321928095
PPP1R3A	0	0	0	0	0	0
PPP1R3B	5,357552005	4,857980995	5,129283017	5,700439718	5,727920455	6,491853096
PPP1R3C	1	0	1	0	0	2
PPP1R3D	6,06608919	6,06608919	5,930737338	5,930737338	6,409390936	5,95419631
PPP1R3E	5,169925001	5,95419631	6,108524457	6,62935662	6,658211483	7,011227255
PPP1R3F	4,459431619	4,169925001	4,754887502	7,209453366	6,539158811	7,622051819
PPP1R3G	0	1	0	0	0	0
PPP1R42	0	0	0	0	0	0
PPP1R7	6,614709844	6,807354922	6,727920455	7,247927513	6,965784285	6,965784285
PPP1R8	7,129283017	7,14974712	7,276124405	7,459431619	7,912889336	7,562242424
PPP1R9A	2,321928095	2,321928095	2,807354922	1	1,584962501	3,169925001
PPP1R9B	7,888743249	7,965784285	8,252665432	7,499845887	7,614709844	6,62935662
PPP2CA	8,459431619	8,491853096	8,290018847	8,936637939	8,882643049	8,982993575
PPP2CB	7,700439718	7,845490051	7,942514505	7,491853096	7,539158811	7,622051819
PPP2R1A	6,022367813	5,247927513	5,672425342	5,700439718	5,930737338	5,700439718
PPP2R1B	5,614709844	5,727920455	5,754887502	5,930737338	5,64385619	5,832890014

PPP2R2A	8,475733431	8,566054038	8,46760555	8,366322214	8,714245518	8,330916878
PPP2R2B	5,930737338	6	5,700439718	5,882643049	6,044394119	5,357552005
PPP2R2C	0	0	0	0	0	0
PPP2R2D	7,022367813	6,918863237	6,832890014	7,614709844	6,832890014	7,813781191
PPP2R3A	3,321928095	3,584962501	2,807354922	0	3,321928095	4,95419631
PPP2R3B	3,700439718	4	5,392317423	6,321928095	6,044394119	5,357552005
PPP2R3C	6,930737338	6,658211483	7,087462841	6,906890596	6,882643049	6,321928095
PPP2R5A	8,647458426	8,654636029	8,611024797	8,95419631	9,098032083	8,927777962
PPP2R5B	3,906890596	3,584962501	4,64385619	2,807354922	4,64385619	0
PPP2R5C	10,17866485	10,26091953	10,45532722	10,70563239	10,76652891	10,74062404
PPP2R5D	6,569855608	6,554588852	6,62935662	6,321928095	6,539158811	6,754887502
PPP2R5E	9,192292814	9,095397023	9,233619677	9,539158811	9,471675214	9,292321633
PPP3CA	10,09934781	10,09275714	10,07815081	9,878050913	9,908392621	9,696967526
PPP3CB	7,693486957	7,707359132	7,693486957	7,930737338	7,73470962	7,894817763
PPP3CC	7,076815597	6,977279923	6,882643049	7,693486957	7,523561956	7,46760555
PPP3R1	8,033423002	8,174925683	8,257387843	8,442943496	8,396604781	8,797661526
PPP3R2	2,321928095	0	1,584962501	1	3	0
PPP4C	6,95419631	6,442943496	6,569855608	6,459431619	6,044394119	6,321928095
PPP4R1	6,475733431	6,882643049	6,714245518	6,409390936	5,977279923	4,321928095
PPP4R1L	4,523561956	4,700439718	5,209453366	4,523561956	4,95419631	4,95419631
PPP4R2	8,479780264	8,271463028	8,388017285	8,562242424	8,483815777	8,21916852
PPP4R4	2,321928095	1	2	2,807354922	3,700439718	0
PPP5C	3,807354922	4,169925001	4,247927513	3,321928095	1,584962501	0
PPP6C	8,204571144	8,442943496	8,487840034	8,741466986	9,025139562	9
PPP6R1	4	4,087462841	3,700439718	4,857980995	4	3,807354922
PPP6R2	6,14974712	6,303780748	6,491853096	7,076815597	6,807354922	6,754887502
PPP6R3	7,882643049	7,930737338	7,87036472	8,294620749	8,118941073	8,290018847
PPRC1	4,95419631	5,044394119	5,357552005	6,321928095	5,781359714	6,491853096
PPT1	8,791162889	9,025139562	9	6,584962501	6,768184325	5,95419631
PPT2	2,807354922	1,584962501	2	2,321928095	0	0
PPT2-EGFL8	0	0	0	0	0	0
PPTC7	8,539158811	8,511752654	8,479780264	8,6794801	8,491853096	8,73470962
PPWD1	7,238404739	7,169925001	7,22881869	8,204571144	7,721099189	7,672425342
PPY	0	0	0	0	0	0
PQBP1	5,554588852	5,727920455	5,754887502	4,700439718	5,930737338	5,357552005
PQLC1	6,044394119	6,044394119	5,930737338	3,807354922	5,392317423	4,64385619
PQLC2	1,584962501	2,321928095	2,584962501	0	0	2
PQLC3	7,77478706	7,707359132	7,787902559	6,189824559	6,321928095	4,64385619
PRADC1	3,584962501	3,169925001	3,169925001	0	1,584962501	2
PRAF2	5,727920455	6,129283017	6	6,554588852	6,321928095	6,247927513
PRAM1	5,392317423	4,754887502	5,044394119	0	1,584962501	3,169925001
PRAME	0	0	1	0	0	0
PRAMEF1	0	0	0	0	0	2
PRAMEF10	0	0	0	0	0	0
PRAMEF11	0	0	0	0	0	0
PRAMEF12	0	0	0	0	0	2
PRAMEF13	0	0	0	0	0	0
PRAMEF14	0	0	0	0	0	0
PRAMEF15	0	0	0	0	0	0
PRAMEF17	0	0	0	0	0	0
PRAMEF18	0	0	0	0	0	0
PRAMEF19	0	0	0	0	0	0
PRAMEF2	0	0	0	0	0	0
PRAMEF20	0	0	0	0	0	0
PRAMEF4	0	0	0	0	0	0
PRAMEF5	0	0	0	0	0	0
PRAMEF6	0	0	0	0	0	0
PRAMEF7	0	0	0	0	0	0

PRAMEF8	0	0	0	0	0	0
PRAMEF9	0	0	0	0	0	0
PRAP1	0	0	0	0	0	0
PRB1	0	0	0	0	0	0
PRB2	0	0	0	0	0	0
PRB3	0	0	0	0	0	0
PRB4	0	0	0	0	0	0
PRC1	3,459431619	1	1,584962501	4,087462841	1,584962501	4,321928095
PRCC	5,614709844	5,95419631	5,754887502	6,459431619	6,087462841	5,832890014
PRCD	0	0	0	0	0	0
PRCP	8,451211112	8,475733431	8,21916852	6,584962501	6,857980995	6,169925001
PRDM1	8,832890014	8,573647187	8,73809226	8,159871337	8,103287808	8,434628228
PRDM10	5,169925001	5,357552005	5,672425342	6,554588852	6,321928095	6,62935662
PRDM11	4,247927513	3	4,584962501	3,321928095	3,321928095	4,64385619
PRDM12	0	0	0	0	0	0
PRDM13	0	0	0	0	0	0
PRDM14	0	0	0	0	0	0
PRDM15	3,321928095	4,459431619	5,044394119	5,247927513	4	5,554588852
PRDM16	0	0	0	1	0	0
PRDM2	8,523561956	8,442943496	8,74819285	9,366322214	9,06608919	9,461479447
PRDM4	6,129283017	5,807354922	6,06608919	6,62935662	6,087462841	6,06608919
PRDM5	0	0	1,584962501	1	0	3,169925001
PRDM6	0	1	1	0	0	2
PRDM7	0	1	0	0	0	0
PRDM8	5,832890014	5,459431619	5,754887502	6,129283017	6,459431619	6,754887502
PRDM9	0	0	0	3,321928095	4,247927513	5,554588852
PRDX1	9,842350343	9,83447105	9,945443836	7,658211483	7,924812504	7,247927513
PRDX2	4,700439718	3,700439718	4,906890596	5,129283017	5,459431619	2
PRDX3	8,405141463	8,400879436	8,30833903	6,700439718	6,942514505	5,554588852
PRDX4	5,209453366	5,357552005	4,64385619	2,321928095	3,700439718	3,169925001
PRDX5	6,022367813	6,339850003	5,930737338	6,321928095	6,087462841	5,95419631
PRDX6	7,442943496	7,584962501	7,409390936	7,459431619	7,523561956	7,375039431
PREB	6,906890596	6,741466986	6,64385619	7,022367813	7,159871337	6,882643049
PRELID1	7,209453366	7,285402219	7,199672345	5,930737338	6,409390936	5,357552005
PRELID2	1,584962501	2,584962501	2,584962501	2,807354922	3,321928095	4,95419631
PRELP	0	0	0	1	1,584962501	3,169925001
PREP	7,169925001	7,169925001	7,21916852	7,076815597	6,918863237	6,62935662
PREPL	7,442943496	7,577428828	7,321928095	8,199672345	8,113742166	7,894817763
PREX1	9,794415866	9,733015322	9,668884984	9,930737338	9,936637939	9,842350343
PREX2	0	1	0	1	0	0
PRF1	7	7,238404739	7,357552005	6,554588852	7,159871337	5,832890014
PRG2	0	0	0	0	0	0
PRG3	0	0	0	0	0	0
PRG4	1,584962501	1,584962501	0	0	0	2
PRH1	4,321928095	4,754887502	5,554588852	6,06608919	5,392317423	6,169925001
PRH2	0	0	0	0	0	0
PRICKLE1	3,700439718	3,807354922	3	5,459431619	5,169925001	4,64385619
PRICKLE2	0	0	0	0	0	0
PRICKLE3	1,584962501	0	0	0	0	0
PRICKLE4	0	0	0	0	0	0
PRIM1	5	5,129283017	4,087462841	6,266786541	6,321928095	6,569855608
PRIM2	3,906890596	4,087462841	3,807354922	4,700439718	4,459431619	4,321928095
PRIMA1	0	0	0	0	0	0
PRKAA1	7,686500527	7,707359132	7,8008999	8,087462841	8,022367813	7,994353437
PRKAA2	4,247927513	4,169925001	4,169925001	6,658211483	6,832890014	7,721099189
PRKAB1	6,022367813	5,781359714	6	5,129283017	6,087462841	6,169925001
PRKAB2	6,475733431	6,266786541	6,87036472	6,06608919	6,044394119	5,554588852
PRKACA	7,285402219	7,459431619	7,442943496	6,375039431	6,044394119	4,95419631

PRKACB	8,658211483	8,577428828	8,438791853	8,845490051	9,044394119	8,413627929
PRKACG	0	0	0	0	0	0
PRKAG1	6,614709844	7,169925001	7,033423002	7,459431619	7,247927513	7,813781191
PRKAG2	7,539158811	7,50779464	7,6794801	7,209453366	6,965784285	7,209453366
PRKAG3	0	0	0	0	0	0
PRKAR1A	10,72706956	10,77478706	10,63117706	10,43983088	10,51569984	10,1176431
PRKAR1B	2,321928095	1,584962501	2,584962501	4,087462841	3	3,169925001
PRKAR2A	8,836050355	8,909893084	8,675957033	8,266786541	8,515699838	8,144658243
PRKAR2B	5,832890014	5,64385619	5,321928095	5,357552005	5,285402219	5,95419631
PRKCA	6,741466986	6,781359714	7,139551352	7,658211483	7,50779464	7,700439718
PRKCB	9,599912842	9,63481105	9,52160044	9,366322214	9,233619677	9,116343961
PRKCD	8,700439718	8,787902559	9,162391329	6,768184325	6,741466986	6,409390936
PRKCE	5,169925001	5,044394119	5,857980995	5,523561956	5,169925001	3,807354922
PRKCG	0	0	0	0	0	0
PRKCH	8,523561956	8,451211112	8,717676423	9,744833837	9,584962501	9,74819285
PRKCI	6,988684687	6,768184325	6,832890014	6,321928095	6,741466986	6,409390936
PRKCQ	6,426264755	6,539158811	7,139551352	7,531381461	7,62935662	7,375039431
PRKCSH	5,209453366	5,247927513	5,491853096	5,882643049	6,375039431	5,169925001
PRKCZ	2,584962501	3,169925001	3,169925001	2,807354922	1,584962501	0
PRKD1	1,584962501	1,584962501	0	0	0	0
PRKD2	5,321928095	5,554588852	5,930737338	6,189824559	6,321928095	6,06608919
PRKD3	8,060695932	8	8,098032083	8,233619677	8,413627929	8,144658243
PRKDC	8,30833903	8,055282436	8,14974712	8,375039431	8,022367813	8,108524457
PRKG1	3,459431619	2,807354922	2	6,189824559	5,554588852	6,820178962
PRKG2	3,459431619	4	2,807354922	4,857980995	4,459431619	4,95419631
PRKRA	6,409390936	6,321928095	6,459431619	5,700439718	5,392317423	5,357552005
PRKRIP1	6,189824559	6,321928095	6,22881869	6,741466986	6,965784285	6,965784285
PRKX	8,550746785	8,430452552	8,531381461	8,936637939	9,038918989	8,636624621
PRKY	7,700439718	8,033423002	8,447083226	8,060695932	8,071462363	8,016808288
PRL	0	0	0	0	0	0
PRLH	0	0	0	0	0	0
PRLHR	0	0	0	1	2,321928095	0
PRLR	0	1,584962501	3,321928095	0	0	3,169925001
PRM1	0	0	0	0	0	0
PRM2	0	0	0	0	0	0
PRM3	0	0	0	0	0	0
PRMT1	6,459431619	6,781359714	6,988684687	7,022367813	7,348728154	7,129283017
PRMT2	9,326429487	9,375039431	9,605479518	9,567956075	9,388017285	9,656424863
PRMT3	5	5,321928095	4,857980995	4,700439718	4,95419631	5,700439718
PRMT5	5,554588852	5,781359714	5,614709844	5,832890014	5,930737338	3,169925001
PRMT6	5,357552005	5,426264755	5,169925001	5,882643049	5,727920455	5,700439718
PRMT7	4,906890596	5,392317423	5,321928095	6,06608919	6,189824559	6,321928095
PRMT8	0	0	0	0	0	0
PRND	0	0	0	0	0	0
PRNP	7,832890014	7,918863237	7,77478706	7,515699838	7,599912842	7,209453366
PRNT	0	0	0	0	0	0
PROC	0	0	0	0	0	0
PROCA1	2,807354922	3,906890596	2	4,321928095	0	3,169925001
PROCR	4,95419631	5,044394119	5,426264755	1	3,321928095	0
PRODH	0	0	0	0	0	0
PRODH2	0	0	0	0	3	3,169925001
PROK1	0	0	0	0	1,584962501	0
PROK2	3,700439718	3,169925001	4,459431619	4,321928095	4,807354922	2
PROKR1	0	0	0	2,807354922	0	0
PROKR2	0	0	0	0	0	0
PROM1	0	1	0	0	0	0
PROM2	0	0	0	0	0	0
PROP1	0	0	0	0	0	0

PRORSD1P	4,459431619	3,807354922	3,584962501	3,807354922	3	2
PROS1	1,584962501	2,321928095	0	1	0	2
PROSER1	6,087462841	6,22881869	6,375039431	6,700439718	6,614709844	7,011227255
PROX1	1,584962501	2,807354922	1,584962501	4,857980995	4,95419631	6,169925001
PROX1-AS1	0	0	0	0	0	0
PROX2	1	0	0	0	0	0
PROZ	0	0	0	0	0	0
PRPF18	7,562242424	7,50779464	7,54689446	8,044394119	8,011227255	8,129283017
PRPF19	6,614709844	6,930737338	7,108524457	7,22881869	7,451211112	7,622051819
PRPF3	6,189824559	6,266786541	6,584962501	6,459431619	6,741466986	6,321928095
PRPF31	4,906890596	5,727920455	5,584962501	6,06608919	5,857980995	5,700439718
PRPF38A	8,13442632	8,092757141	8,21916852	8,392317423	8,535275377	8,159871337
PRPF38B	10,67683861	10,51076417	10,69609817	10,74062404	10,80896417	10,70043972
PRPF39	7,768184325	7,392317423	7,636624621	7,768184325	7,584962501	8,016808288
PRPF4	5,832890014	5,426264755	5,554588852	6,50779464	6,50779464	6,882643049
PRPF40A	10,54689446	10,46250227	10,54689446	10,60640521	10,43045255	10,66266838
PRPF40B	3	3	2,807354922	3,321928095	3	0
PRPF4B	9,836050355	9,569855608	9,856425529	9,782998209	9,479780264	9,620219826
PRPF6	8,262094845	8,523561956	8,46760555	8,731319031	8,842350343	8,87036472
PRPF8	7,375039431	7,768184325	7,8008999	8,184875343	8,252665432	8,204571144
PRPH	0	0	0	0	0	0
PRPH2	0	0	0	1	0	0
PRPS1	6,930737338	7,169925001	6,857980995	7,499845887	7,64385619	7,098032083
PRPS1L1	0	0	0	0	0	0
PRPS2	6,475733431	6,209453366	6,409390936	5,247927513	5,169925001	4,321928095
PRPSAP1	6,303780748	6,209453366	6,409390936	6,409390936	6,087462841	6,409390936
PRPSAP2	6,569855608	6,523561956	6,189824559	6,584962501	6,658211483	6,169925001
PRR11	5	5	5,169925001	4,321928095	4	6,06608919
PRR12	3,700439718	4,392317423	4,906890596	3,807354922	4,64385619	2
PRR13	8,247927513	8,266786541	8,033423002	8,113742166	8,092757141	7,672425342
PRR14	5,700439718	5	5,906890596	5,357552005	5,781359714	4,64385619
PRR14L	8,204571144	7,936637939	8,14974712	7,894817763	7,864186145	8,06608919
PRR15	0	0	0	0	0	0
PRR15L	0	0	0	0	0	0
PRR16	1	0	0	1	0	0
PRR18	0	0	0	0	3	0
PRR19	0	0	0	0	0	2
PRR20A	0	0	0	0	0	0
PRR20B	0	0	0	0	0	0
PRR20C	0	0	0	0	0	0
PRR20D	0	0	0	0	0	0
PRR20E	0	0	0	0	0	0
PRR22	0	0	0	0	0	0
PRR23A	0	0	0	0	0	0
PRR23B	0	0	0	0	0	0
PRR23C	0	0	0	0	0	0
PRR3	4,392317423	5,129283017	4,584962501	4,700439718	4,95419631	0
PRR4	1,584962501	0	0	0	2,321928095	2
PRR5	1,584962501	2,321928095	2,584962501	2,807354922	1,584962501	0
PRR5-ARHGAP8	0	0	0	0	0	0
PRR5L	7,022367813	7,011227255	7,159871337	8,174925683	8,321928095	8,271463028
PRR7	3,459431619	2,807354922	2	5,129283017	3	5,169925001
PRR9	0	0	0	0	0	0
PRRC1	8,62935662	8,422064766	8,312882955	8,276124405	8,113742166	8,108524457
PRRC2A	4,700439718	5,247927513	5,700439718	5,247927513	5,781359714	5,357552005
PRRC2B	8,271463028	8,17990909	8,426264755	9,030667136	8,977279923	9,049848549
PRRC2C	11,01402047	10,91662592	11,16176174	11,31741261	11,11958962	11,36358725
PRRG1	3	3,807354922	3,169925001	0	0	0

PRRG2	0	0	1	0	0	0
PRRG3	0	0	0	0	0	0
PRRG4	6,129283017	6,087462841	5,584962501	2,321928095	2,321928095	3,169925001
PRRT1	1,584962501	1,584962501	2	1	0	3,169925001
PRRT2	2,807354922	4,169925001	4,087462841	6	4,95419631	5,95419631
PRRT3	2,321928095	0	1,584962501	0	3	3,169925001
PRRT4	0	1	0	0	0	0
PRRX1	1	1	0	1	0	3,169925001
PRRX2	0	0	0	0	0	0
PRSS1	0	0	0	0	0	0
PRSS12	0	0	0	0	1,584962501	3,169925001
PRSS16	0	0	0	0	0	0
PRSS2	0	0	0	0	0	0
PRSS21	0	1	0	0	0	0
PRSS22	1,584962501	1,584962501	1,584962501	0	0	0
PRSS23	6,285402219	6,459431619	5,882643049	5,700439718	5,727920455	4,321928095
PRSS27	0	0	0	1	0	0
PRSS3	0	0	0	0	0	0
PRSS30P	2,321928095	2,321928095	2,584962501	1	3,700439718	0
PRSS33	0	0	0	0	0	0
PRSS35	0	0	0	0	1,584962501	2
PRSS36	1	1	1,584962501	0	0	0
PRSS37	0	0	0	0	0	0
PRSS38	0	0	0	0	1,584962501	2
PRSS41	0	0	0	0	0	2
PRSS42	0	0	0	0	0	2
PRSS45	0	0	0	0	0	0
PRSS48	0	0	0	0	0	0
PRSS50	0	0	0	0	0	0
PRSS53	1	1	0	0	0	0
PRSS54	0	0	0	0	0	0
PRSS55	0	0	0	0	0	0
PRSS56	0	0	0	0	0	0
PRSS57	0	0	0	0	0	0
PRSS58	0	0	0	0	0	0
PRSS8	0	0	0	0	0	0
PRTFDC1	0	0	0	1	0	0
PRTG	3	2,321928095	2,584962501	2,321928095	3	4,95419631
PRTN3	0	0	0	0	0	0
PRUNE2	2,807354922	3,906890596	3,584962501	5,882643049	6,247927513	6,491853096
PRX	1	0	0	1	1,584962501	0
PRY	0	0	0	0	0	0
PRY2	0	0	0	0	0	0
PSAP	12,0657527	12,19075065	12,03514275	9,74819285	9,873444113	9,688250309
PSAPL1	0	0	0	0	0	0
PSAT1	3,321928095	4	3,169925001	5,523561956	5,727920455	5,832890014
PSCA	0	0	0	0	0	0
PSD	0	0	1	1	0	0
PSD2	0	0	0	4,857980995	3	5,832890014
PSD3	5,209453366	5,357552005	5,044394119	6,95419631	6,768184325	7,375039431
PSD4	6,977279923	6,918863237	7,189824559	7,055282436	7,62935662	6,882643049
PSEN1	7,658211483	7,721099189	7,6794801	6,845490051	7	6,700439718
PSEN2	4,584962501	4,754887502	4,392317423	0	0	0
PSENEN	5,392317423	5,426264755	5,044394119	5,459431619	5,459431619	4,321928095
PSG1	0	0	0	0	0	0
PSG10P	0	0	0	0	0	0
PSG11	0	0	0	0	0	0
PSG2	0	0	0	0	1,584962501	0

PSG3	0	0	0	0	0	0
PSG4	0	0	0	0	0	0
PSG5	0	0	0	0	0	0
PSG6	0	0	0	0	0	0
PSG7	0	0	0	0	0	0
PSG8	0	0	0	0	0	0
PSG9	0	0	0	0	0	0
PSIP1	9,885696373	9,675957033	9,776433032	9,513727596	9,668884984	9,063395081
PSKH1	5,882643049	5,727920455	5,700439718	4,321928095	5,727920455	5,700439718
PSKH2	0	0	0	0	0	0
PSMA1	8,73809226	8,696967526	8,807354922	8,531381461	8,73809226	8,366322214
PSMA2	7,238404739	7,022367813	7,693486957	7,392317423	7,475733431	7,592457037
PSMA3	8,891783703	8,87958325	8,768184325	8,573647187	8,599912842	8,744833837
PSMA4	9,405141463	9,245552706	9,197216693	8,519636253	8,531381461	8,744833837
PSMA5	7,392317423	7,434628228	7,87036472	7,768184325	7,942514505	7,700439718
PSMA6	5,129283017	4,392317423	4,700439718	5,129283017	4,807354922	5,700439718
PSMA7	9,73470962	9,688250309	9,577428828	9,426264755	9,383704292	9,605479518
PSMA8	1,584962501	0	2,584962501	0	3,700439718	3,807354922
PSMB1	9,290018847	9,33315535	9,290018847	9,164906927	9,317412614	8,885696373
PSMB10	4,247927513	4,392317423	3,906890596	0	3,321928095	0
PSMB11	0	0	0	0	0	0
PSMB2	7,54689446	7,839203788	7,8008999	7,409390936	7,584962501	7,409390936
PSMB3	7,022367813	7,209453366	7,366322214	6,554588852	6,700439718	5,95419631
PSMB4	8,531381461	8,554588852	8,366322214	8,661778098	8,857980995	8,603626345
PSMB5	6,22881869	6,321928095	6,523561956	7	6,741466986	6,754887502
PSMB6	7,707359132	7,832890014	7,918863237	6,794415866	7,584962501	6,569855608
PSMB7	6,658211483	6,339850003	6,426264755	6,700439718	6,087462841	6,409390936
PSMB8	8,77807713	8,882643049	8,854868383	8,487840034	8,724513853	8,558420713
PSMB9	9,162391329	9,312882955	9,142107057	8,071462363	8,654636029	8,06608919
PSMC1	4	4,700439718	4,95419631	5	4,95419631	5,357552005
PSMC2	8,17990909	7,918863237	7,768184325	8,339850003	8,113742166	8,447083226
PSMC3	6,247927513	5,857980995	5,906890596	5,700439718	5,64385619	5,169925001
PSMC3IP	1,584962501	2,807354922	2,584962501	3,321928095	0	4,64385619
PSMC4	6,426264755	6,321928095	5,930737338	6,584962501	5,930737338	6,321928095
PSMC5	7,442943496	7,531381461	7,523561956	7,321928095	7,247927513	6,820178962
PSMC6	7,62935662	7,577428828	7,54689446	7,658211483	7,73470962	7,721099189
PSMD1	9,199672345	9,216745858	9,157346935	8,885696373	8,903881846	9,17990909
PSMD10	6,459431619	6,339850003	6,169925001	7,14974712	6,942514505	6,700439718
PSMD11	7,832890014	8,214319121	7,894817763	8,184875343	8,103287808	8,21916852
PSMD12	7,651051691	7,614709844	7,721099189	7,994353437	8,194756854	8,330916878
PSMD13	7,930737338	7,845490051	7,74819285	8,033423002	7,982993575	8,189824559
PSMD14	7,409390936	7,451211112	7,209453366	6,375039431	6,539158811	7,011227255
PSMD2	7,77478706	7,807354922	8,060695932	7,930737338	7,807354922	7,761551232
PSMD3	7,665335917	8,076815597	8,30833903	7,714245518	8,055282436	8,016808288
PSMD4	8,366322214	8,686500527	8,965784285	9,011227255	8,985841937	8,636624621
PSMD5	6,022367813	6,14974712	6,169925001	7,714245518	7,491853096	8,434628228
PSMD6	7,257387843	7,06608919	7,285402219	7,62935662	7,400879436	7,622051819
PSMD7	8,62935662	8,665335917	8,696967526	8,503825738	8,339850003	8,807354922
PSMD8	7,813781191	7,87036472	7,813781191	7,14974712	7,266786541	6,965784285
PSMD9	6,129283017	6,475733431	6,614709844	5,930737338	6,539158811	6,247927513
PSME1	9,661778098	9,695228291	9,672425342	9,063395081	9,415741768	9,087462841
PSME2	8,980139578	9,147204925	9,436711542	7,727920455	8,044394119	7,87036472
PSME3	6,686500527	6,475733431	6,727920455	6,129283017	6,459431619	6,409390936
PSME4	8,060695932	7,965784285	8,184875343	8,071462363	8,339850003	8,129283017
PSMF1	7,339850003	7,312882955	7,50779464	7,426264755	7,693486957	7,46760555
PSMG1	6,672425342	7,011227255	6,754887502	5,882643049	6,189824559	4,95419631
PSMG2	7,321928095	7,159871337	6,918863237	7,392317423	7,451211112	7,375039431
PSMG3	6,64385619	6,965784285	6,339850003	6,741466986	7	6,882643049

PSMG4	6,06608919	5,781359714	6,285402219	6,930737338	7	6,409390936
PSORS1C1	0	0	0	0	0	0
PSORS1C2	0	0	0	0	0	0
PSORS1C3	0	0	0	0	0	0
PSPC1	6,977279923	6,894817763	6,882643049	7,839203788	7,924812504	8,016808288
PSPH	3	3	3,169925001	6,794415866	5,930737338	7,46760555
PSPN	2,807354922	3,321928095	3	5,357552005	4	2
PSRC1	0	0	0	0	0	0
PSTK	3	0	0	1	2,321928095	3,807354922
PSTPIP1	5	4,906890596	4,857980995	3,321928095	4,807354922	3,807354922
PSTPIP2	9,174925683	9,197216693	9,296916207	6,321928095	6,375039431	6,491853096
PTAFR	8,854868383	9,036173613	8,891783703	5,523561956	5,781359714	5,169925001
PTAR1	7,813781191	7,876516947	7,781359714	7,658211483	7,451211112	7,832890014
PTBP1	8,672425342	8,710806434	8,751544059	9,016808288	8,918863237	8,903881846
PTBP2	5,727920455	5,95419631	5,727920455	6,62935662	6,741466986	6,569855608
PTBP3	10,32418055	10,31741261	10,34429591	9,776433032	9,83447105	9,533329732
PTCD1	3,700439718	4,392317423	4,906890596	6,22881869	5,285402219	6,06608919
PTCD2	5,523561956	5,426264755	5,169925001	6,375039431	6,044394119	6,882643049
PTCD3	7,714245518	7,8008999	8,21916852	8,836050355	8,654636029	8,948367232
PTCH1	5,554588852	5,044394119	5,491853096	4,857980995	5,727920455	5,95419631
PTCH2	1	0	0	0	1,584962501	0
PTCHD1	0	0	0	2,807354922	3,321928095	5,700439718
PTCHD3	0	0	0	0	0	0
PTCHD4	0	0	0	0	0	0
PTCRA	0	1	0	0	0	0
PTDSS1	7,614709844	7,636624621	7,599912842	8,113742166	7,851749041	8,159871337
PTDSS2	2,584962501	2,584962501	3,169925001	2,807354922	3,321928095	3,169925001
PTEN	8,330916878	8,321928095	8,194756854	8,717676423	8,535275377	8,665335917
PTENP1	4,169925001	4,392317423	3,906890596	5,247927513	4,64385619	6,06608919
PTER	7,076815597	6,918863237	6,942514505	7,189824559	7,50779464	7,209453366
PTF1A	0	0	0	0	0	0
PTGDR	6,189824559	5,977279923	6	6,06608919	5,977279923	4,95419631
PTGDR2	1,584962501	1,584962501	0	0	0	0
PTGDS	0	0	0	1	0	0
PTGER1	0	0	0	0	0	0
PTGER2	7,73470962	7,409390936	7,426264755	6,22881869	6,375039431	5,700439718
PTGER3	3,700439718	3,169925001	0	5,882643049	3,700439718	6,882643049
PTGER4	8,383704292	8,28077077	8,409390936	8,451211112	8,599912842	8,77807713
PTGES	0	0	0	0	0	0
PTGES2	5,584962501	5,523561956	5,882643049	3,321928095	3	0
PTGES3	9,864186145	9,884170519	9,773139207	9,695228291	9,824958741	9,717676423
PTGFR	4,459431619	3,584962501	4	6,554588852	6,247927513	7,247927513
PTGFRN	4,64385619	4,700439718	4,169925001	0	0	0
PTGIR	4,64385619	4,700439718	4,754887502	1	3,321928095	0
PTGIS	0	0	0	0	0	0
PTGR1	4,523561956	4,169925001	4,906890596	2,807354922	1,584962501	0
PTGR2	3,584962501	3,906890596	3	2,321928095	3,321928095	0
PTGS1	5,357552005	5,285402219	5,247927513	3,321928095	0	3,169925001
PTGS2	6,266786541	6,459431619	6,189824559	5,700439718	6,741466986	3,169925001
PTH	0	0	0	0	0	0
PTH1R	0	0	1	1	1,584962501	2
PTH2	0	0	0	0	0	0
PTH2R	1	1,584962501	0	0	1,584962501	0
PTHLH	0	0	0	0	0	0
PTK2	3,700439718	4,087462841	3,700439718	5	5,554588852	4,95419631
PTK2B	6,658211483	6,977279923	7,14974712	7,357552005	7,159871337	6,754887502
PTK6	2,584962501	0	0	1	2,321928095	0
PTK7	1	2,321928095	1	0	1,584962501	2

PTMA	11,7232343	11,64069684	11,53527538	11,28019079	11,3885555	11,06272077
PTMS	6	6,129283017	6,523561956	5,357552005	5,169925001	4,64385619
PTN	0	0	0	0	0	0
PTOV1	4,392317423	4,584962501	4,700439718	5	4,64385619	4,64385619
PTP4A1	0	0	0	0	0	0
PTP4A2	10,74062404	10,72706956	10,68387187	10,56033283	10,73724734	10,58683979
PTP4A3	2,584962501	2,321928095	2	2,321928095	0	2
PTPDC1	4,169925001	3,169925001	3,700439718	1	2,321928095	3,169925001
PTPMT1	5,95419631	5,459431619	6,087462841	5,247927513	5,169925001	4,321928095
PTPN1	10,13699111	10,16364968	10,18858885	10,03479896	10,29232163	10,38694025
PTPN11	8,044394119	7,651051691	7,607330314	7,672425342	7,994353437	8,016808288
PTPN12	8,710806434	8,791162889	8,62935662	7,189824559	7,400879436	7,209453366
PTPN13	4	3,807354922	3,169925001	5,754887502	5,459431619	5,700439718
PTPN14	1,584962501	3	1	4,523561956	4,64385619	5,95419631
PTPN18	6,87036472	7,159871337	7,515699838	5,930737338	6,129283017	5,554588852
PTPN2	8,45532722	8,21916852	8,092757141	7,714245518	7,693486957	7,672425342
PTPN21	0	0	1	0	0	0
PTPN22	7,330916878	7,50779464	7,459431619	7,577428828	7,266786541	7,375039431
PTPN23	5,584962501	5,459431619	5,459431619	5	5,64385619	2
PTPN3	1	0	0	0	0	0
PTPN4	7,876516947	7,64385619	7,894817763	7,876516947	7,888743249	7,994353437
PTPN5	0	0	0	0	0	0
PTPN6	6,942514505	6,894817763	7,209453366	6,22881869	6,409390936	5,169925001
PTPN7	5,906890596	6,303780748	6,108524457	6,375039431	6,459431619	5,832890014
PTPN9	5,700439718	5,672425342	5,357552005	4,857980995	4,807354922	5,169925001
PTPRA	7,912889336	7,942514505	7,714245518	7,499845887	7,781359714	7,276124405
PTPRB	2,321928095	1	0	4,321928095	2,321928095	0
PTPRC	12,24138736	12,24138736	12,14815877	11,91101741	11,84549005	11,74315139
PTPRCAP	0	0	0	0	0	0
PTPRD	0	1,584962501	1	3,807354922	2,321928095	5,169925001
PTPRE	9,741466986	9,52160044	9,698704667	7,982993575	8,299208018	8,189824559
PTPRF	1,584962501	0	0	3,321928095	0	2
PTPRG	1,584962501	1	0	0	3	2
PTPRH	0	0	0	4,087462841	4,247927513	5,700439718
PTPRJ	8,654636029	8,797661526	8,566054038	8,810571635	8,86727874	8,622051819
PTPRK	3,321928095	3	1,584962501	3,807354922	3,321928095	5,169925001
PTPRM	5	4,392317423	4,754887502	6,584962501	6,459431619	6,930737338
PTPRN	0	0	0	0	0	0
PTPRN2	3,807354922	2,584962501	2	2,807354922	3	3,169925001
PTPRO	5,357552005	5,321928095	5,321928095	5	5,087462841	4,64385619
PTPRQ	2,321928095	1,584962501	2,584962501	3,807354922	2,321928095	4,64385619
PTPRR	0	0	1,584962501	0	0	0
PTPRS	0	0	1	0	0	0
PTPRT	0	1	1	0	0	0
PTPRU	0	0	0	0	0	0
PTPRVP	0	0	0	0	0	0
PTPRZ1	0	0	0	0	0	2
PTRH1	3,584962501	3,807354922	4,64385619	2,321928095	3	3,807354922
PTRH2	4,392317423	4,321928095	4,523561956	2,807354922	5,459431619	3,807354922
PTRHD1	5,672425342	6,06608919	5,672425342	6,375039431	6,044394119	5,95419631
PTS	5,247927513	5,169925001	5,392317423	6	5,554588852	3,807354922
PTTG1	4,321928095	3,807354922	5,169925001	3,321928095	3,321928095	0
PTTG11P	8,487840034	8,573647187	8,535275377	7,442943496	7,554588852	7,375039431
PTTG2	0	0	1	0	0	0
PTTG3P	0	0	0	0	0	0
PTX3	3,700439718	3	3	5,247927513	4,459431619	6,569855608
PTX4	0	0	0	0	0	0
PUF60	6,794415866	7,087462841	7,14974712	7,577428828	7,434628228	7,209453366

PUM1	9,353146825	9,247927513	9,37286506	9,379378367	9,315149562	9,487840034
PUM2	8,915879379	8,897845456	9	9,337621902	9,375039431	9,385862401
PURA	8,980139578	8,991521846	9,027905997	9,442943496	9,35974956	9,442943496
PURB	7,8008999	7,686500527	7,794415866	8,366322214	8,139551352	8,724513853
PURG	0	0	0	0	0	0
PUS1	4,247927513	4,857980995	4	5,247927513	4,247927513	0
PUS10	4,754887502	4,584962501	4,906890596	4,523561956	3	4,64385619
PUS3	6,392317423	6,06608919	6	6,794415866	6,50779464	6,820178962
PUS7	5	5,169925001	5,044394119	4,087462841	5,459431619	4,321928095
PUS7L	8,044394119	7,876516947	7,930737338	7,672425342	7,491853096	7,098032083
PUSL1	1	2,321928095	2	2,321928095	0	0
PVALB	0	0	0	0	0	0
PVR	5,392317423	5,087462841	5	0	0	0
PVRIG	2,584962501	0	2	0	0	0
PVT1	5,044394119	5,169925001	6,189824559	7,209453366	6,768184325	7,348728154
PWP1	8,049848549	7,965784285	8,144658243	8,426264755	8,426264755	8,392317423
PWP2	0	0	0	0	0	0
PWRN1	0	0	0	0	0	0
PWRN2	2,321928095	0	0	1	2,321928095	3,169925001
PWWP2A	8,499845887	8,554588852	8,487840034	8,426264755	8,797661526	9,105908509
PWWP2B	4,64385619	5,087462841	5,129283017	4,700439718	4,459431619	0
PXDC1	4,247927513	4,392317423	3,169925001	0	0	0
PXDN	1,584962501	0	0	2,807354922	1,584962501	3,807354922
PXDNL	1	0	0	0	1,584962501	3,169925001
PXK	7,787902559	7,942514505	8,049848549	7,864186145	7,707359132	7,622051819
PXMP2	3	0	2	0	2,321928095	0
PXMP4	4,523561956	4	4,169925001	2,807354922	4,247927513	0
PXN	8,189824559	8,17990909	7,948367232	8,495855027	8,471675214	7,721099189
PXT1	0	0	0	0	1,584962501	2
PYCARD	6,569855608	6,741466986	6,321928095	3,807354922	4,247927513	0
PYCR1	2,321928095	2,321928095	2	3,807354922	3,700439718	3,169925001
PYCR2	8,339850003	8,603626345	8,503825738	9,055282436	9,142107057	8,857980995
PYDC1	0	0	0	0	0	0
PYDC2	0	0	0	0	0	0
PYGB	5,832890014	5,807354922	5,672425342	2,321928095	4,247927513	0
PYGL	7,033423002	7,169925001	7,055282436	4,087462841	4,247927513	5,169925001
PYGM	0	1	0	5,614709844	4,64385619	4,64385619
PYGO1	1	0	1	2,807354922	2,321928095	2
PYGO2	5,95419631	6,087462841	5,930737338	6,741466986	6,539158811	6,321928095
PYHIN1	8,06608919	7,894817763	8,092757141	7,741466986	7,994353437	7,515699838
PYROXD1	6,409390936	6,392317423	6,285402219	7,14974712	7,348728154	7,64385619
PYROXD2	4,321928095	4,169925001	4,584962501	6	5,087462841	5,700439718
PYY	0	0	0	0	0	0
PYY2	0	0	0	1	0	0
PZP	0	0	0	0	0	0
QARS	6,189824559	6,06608919	6,189824559	6,321928095	6,768184325	6,169925001
QDPR	6,392317423	6,375039431	6,087462841	5,357552005	6,044394119	6,169925001
QKI	10,16113188	10,04848687	10,00702727	9,278449458	9,296916207	9,116343961
QPCT	7,330916878	7,199672345	6,768184325	2,321928095	4,247927513	0
QPCTL	1	2,807354922	2	0	0	0
QPR	0	0	1	1	2,321928095	4,321928095
QRF	0	0	0	0	0	0
QRFPR	0	0	0	0	0	0
QRICH1	6,426264755	6,672425342	6,820178962	6,977279923	7,17990909	7,098032083
QRICH2	1	0	1,584962501	1	2,321928095	0
QRL1	5,906890596	6,303780748	5,906890596	7,055282436	6,247927513	6,569855608
QSER1	7,451211112	7,044394119	7	6,820178962	6,285402219	5,95419631
QSOX1	6,741466986	6,988684687	6,714245518	5,247927513	5,857980995	5,554588852

QSOX2	5,584962501	5,523561956	4,95419631	6,554588852	6,087462841	6,700439718
QTRT1	4,64385619	4,95419631	5,209453366	5,754887502	5,392317423	5,700439718
R3HCC1	4,459431619	4,321928095	4,584962501	4,700439718	4,64385619	5,169925001
R3HDM1	7,285402219	7,312882955	7,118941073	7,960001932	7,965784285	7,977279923
R3HDM2	8,985841937	9,052568051	9,116343961	9,485829309	9,326429487	9,714245518
R3HDM4	7,312882955	7,475733431	7,754887502	8,184875343	8,139551352	8,06608919
R3HDM1	0	0	0	0	0	0
RAB10	9,339850003	9,209453366	9,357552005	8,717676423	8,77807713	8,826548487
RAB11A	8,54689446	8,751544059	8,312882955	8,266786541	8,243173983	8,503825738
RAB11B	6,988684687	7,159871337	7,303780748	7,055282436	6,768184325	6,409390936
RAB11FIP1	8,997179481	8,622051819	8,717676423	8,584962501	8,483815777	8,54303182
RAB11FIP2	7,285402219	7,276124405	7,276124405	7,499845887	7,266786541	7,312882955
RAB11FIP3	3,700439718	4	4,857980995	5,614709844	4	5,554588852
RAB11FIP4	6,64385619	6,554588852	6,614709844	6,741466986	6,832890014	6,700439718
RAB11FIP5	4	4,459431619	4,392317423	4,321928095	4,64385619	3,169925001
RAB12	7,87036472	7,813781191	8,060695932	7,906890596	7,539158811	7,832890014
RAB13	6,491853096	6,857980995	6,554588852	2,807354922	4	2
RAB14	8,885696373	9,027905997	8,836050355	8,636624621	8,903881846	8,927777962
RAB15	2,321928095	3,169925001	3,584962501	0	0	0
RAB17	0	0	0	1	0	0
RAB18	9,011227255	8,810571635	8,717676423	8,451211112	8,370687407	8,087462841
RAB19	0	0	0	0	0	0
RAB1A	9,659995892	9,47370575	9,296916207	8,751544059	8,836050355	8,791162889
RAB1B	5,672425342	5,64385619	5,807354922	5,754887502	6,087462841	5,169925001
RAB20	7,17990909	7,607330314	7,22881869	3,321928095	5,392317423	2
RAB21	9,21916852	9,184875343	9,100662339	9,930737338	9,764871591	10,12153352
RAB22A	8,413627929	8,603626345	8,569855608	8,103287808	8,379378367	7,994353437
RAB23	2,807354922	1	1,584962501	0	0	0
RAB24	4,64385619	4,392317423	5,523561956	4,321928095	4,459431619	3,807354922
RAB25	0	0	0	0	0	0
RAB26	0	0	0	0	0	0
RAB27A	8,668884984	8,603626345	8,503825738	9,131856961	9,226412193	8,87036472
RAB27B	3,906890596	4,584962501	4,523561956	4,857980995	3,700439718	3,169925001
RAB28	6,906890596	6,584962501	6,475733431	6,882643049	6,832890014	6,409390936
RAB2A	9,544964433	9,539158811	9,364134655	9,11113567	9,079484784	9,259743264
RAB2B	6,129283017	6,475733431	6,754887502	6,882643049	6,807354922	6,491853096
RAB30	6,906890596	7,055282436	6,930737338	7,714245518	7,64385619	7,622051819
RAB31	9,625708843	9,548821908	9,383704292	6,882643049	7,312882955	7,209453366
RAB32	6,129283017	6,714245518	6,768184325	2,321928095	1,584962501	2
RAB33A	4,321928095	3,807354922	4,087462841	4,087462841	4,459431619	2
RAB33B	5,906890596	5,727920455	6,06608919	5,357552005	5,459431619	3,169925001
RAB34	4,64385619	4,64385619	4,392317423	1	0	0
RAB35	6,686500527	6,584962501	6,700439718	6,06608919	6,409390936	5,95419631
RAB36	0	0	0	0	0	0
RAB37	5,426264755	5,321928095	5,321928095	6,459431619	5,727920455	5,554588852
RAB38	2,807354922	3,169925001	2,807354922	1	0	0
RAB39A	3,807354922	4	3,169925001	0	0	0
RAB39B	5,807354922	5,169925001	5,491853096	6,794415866	6,965784285	6,569855608
RAB3A	0	1	1,584962501	0	0	0
RAB3B	1,584962501	0	1	2,807354922	1,584962501	3,807354922
RAB3C	1	0	0	1	0	0
RAB3D	6,894817763	6,714245518	6,64385619	4,087462841	3,700439718	2
RAB3GAP1	7,8008999	7,599912842	7,636624621	7,64385619	7,942514505	7,741466986
RAB3GAP2	8,370687407	8,238404739	8,566054038	8,503825738	8,584962501	8,503825738
RAB3IL1	0	1,584962501	0	0	0	2
RAB3IP	6,50779464	6,375039431	6,832890014	7,022367813	7,266786541	7,409390936
RAB40A	0	0	0	0	0	0
RAB40AL	0	0	0	0	0	0

RAB40B	4,392317423	3	2,807354922	2,321928095	3	2
RAB40C	2,807354922	4,321928095	4,64385619	2,321928095	3,700439718	0
RAB41	0	0	0	0	0	0
RAB42	2,321928095	0	1	0	1,584962501	0
RAB43	0	0	1	0	0	0
RAB4A	6,942514505	7,011227255	6,832890014	6,820178962	6,700439718	6,820178962
RAB4B	3,459431619	0	1,584962501	0	0	2
RAB4B-EGLN2	0	0	0	0	0	0
RAB5A	8,247927513	8,247927513	8,330916878	8,011227255	8,011227255	8,144658243
RAB5B	6,781359714	7,209453366	7,098032083	6,95419631	7,17990909	7,276124405
RAB5C	7,930737338	8,076815597	8,14974712	7,577428828	7,491853096	7,491853096
RAB6A	8,276124405	8,388017285	8,487840034	8,392317423	8,276124405	7,918863237
RAB6B	0	0	0	0	0	0
RAB6C	0	0	0	0	0	0
RAB7A	9,390168956	9,477758266	9,353146825	8,962896005	9,025139562	8,927777962
RAB8A	8,754887502	8,588714636	8,515699838	7,614709844	8,174925683	7,87036472
RAB8B	8,797661526	8,523561956	8,409390936	9,252665432	9,199672345	9,539158811
RAB9A	6,965784285	6,523561956	6,584962501	5,882643049	6,247927513	5,95419631
RAB9B	2,321928095	1	2	1	3	3,807354922
RAB9BP1	0	0	0	0	0	0
RABAC1	5,727920455	6,169925001	6,247927513	5,882643049	6,321928095	5,554588852
RABEP1	8,204571144	8	7,948367232	8,330916878	8,426264755	8,366322214
RABEP2	4,321928095	4	4,857980995	2,807354922	3,700439718	3,169925001
RABEPK	4,64385619	5,357552005	5,727920455	3,321928095	5,392317423	4,95419631
RABGAP1	7,894817763	7,8008999	7,73470962	8,071462363	7,977279923	7,918863237
RABGAP1L	8,290018847	8,299208018	8,184875343	8,682994584	8,693486957	8,584962501
RABGEF1	5,614709844	5,554588852	5,357552005	6,50779464	6,189824559	5,357552005
RABGGTA	4,857980995	4,169925001	4,95419631	2,321928095	4	2
RABGGTB	7,50779464	7,539158811	7,8008999	7,64385619	7,73470962	7,64385619
RABIF	6,22881869	6,087462841	6,044394119	4,523561956	3,321928095	4,64385619
RABL2A	5,930737338	5,882643049	6,22881869	7,658211483	6,965784285	7,312882955
RABL2B	7,209453366	7,794415866	7,768184325	7,942514505	8,129283017	7,700439718
RABL3	5,807354922	5,426264755	5,727920455	5,614709844	6,087462841	4,321928095
RAC1	9,252665432	9,381542951	9,079484784	8,495855027	8,491853096	8,700439718
RAC2	9,174925683	9,28771238	9,100662339	8,948367232	9,290018847	8,348728154
RAC3	0	1	0	0	0	0
RACGAP1	4,523561956	3,906890596	4,392317423	4,087462841	3,700439718	3,807354922
RAD1	5,930737338	5,95419631	6,108524457	6,554588852	6,459431619	5,700439718
RAD17	7,54689446	7,707359132	7,599912842	8,113742166	7,876516947	8,159871337
RAD18	5,584962501	4,906890596	5,247927513	5,357552005	5,392317423	6,169925001
RAD21	10,41151099	10,40832974	10,43983088	10,58683979	10,48884435	10,48381578
RAD21-AS1	1	0	1	4,523561956	2,321928095	3,807354922
RAD21L1	1,584962501	0	0	2,321928095	0	3,169925001
RAD23A	8,22881869	7,900866808	8,14974712	7,971543554	7,965784285	8,21916852
RAD23B	8,647458426	8,64385619	8,84862294	8,330916878	8,184875343	8,558420713
RAD50	4,321928095	3,584962501	3,807354922	5,459431619	4,95419631	3,807354922
RAD51	0	0	0	0	0	0
RAD51AP1	4,754887502	3,906890596	4,584962501	0	0	3,169925001
RAD51AP2	0	0	1	2,807354922	2,321928095	0
RAD51B	3,459431619	2,321928095	3	4,523561956	2,321928095	5,169925001
RAD51C	5,426264755	5,672425342	5,906890596	5,357552005	5,087462841	3,169925001
RAD51D	4,95419631	4,906890596	4,392317423	4,321928095	4,459431619	4,95419631
RAD52	4,169925001	4,087462841	3,906890596	5,523561956	3	5,169925001
RAD54B	1,584962501	1,584962501	0	2,321928095	0	0
RAD54L	0	0	0	0	0	0
RAD54L2	6,832890014	6,62935662	6,700439718	7,209453366	7,285402219	7,348728154
RAD9A	4,247927513	4,321928095	4,087462841	3,807354922	3,321928095	3,169925001
RAD9B	2,321928095	1	0	1	0	4,321928095

RADIL	0	0	1,584962501	0	0	0
RAE1	6,807354922	7,076815597	7,011227255	7,813781191	7,658211483	7,622051819
RAET1E	0	0	0	2,321928095	0	2
RAET1G	0	0	0	0	0	0
RAET1K	0	0	0	0	0	0
RAET1L	0	0	0	0	0	0
RAF1	7,312882955	7,686500527	7,636624621	7,554588852	7,64385619	7,348728154
RAG1	0	0	0	5,357552005	3,321928095	5,700439718
RAG2	0	0	0	0	0	0
RAI1	7,383704292	7,276124405	7,539158811	7,554588852	7,707359132	7,64385619
RAI14	0	3,321928095	1,584962501	0	3	0
RAI2	1,584962501	1	0	4,523561956	1,584962501	0
RALA	8,46760555	8,45532722	8,335390355	8,54303182	8,592457037	8,758223215
RALB	7,665335917	7,614709844	7,658211483	6,189824559	6,321928095	6,247927513
RALBP1	8,603626345	8,388017285	8,30833903	8,717676423	8,447083226	8,768184325
RALGAPA1	6,672425342	6,339850003	6,700439718	7,459431619	7,159871337	7,442943496
RALGAPA2	6,942514505	6,599912842	6,672425342	7,169925001	7,22881869	7,375039431
RALGAPB	7,693486957	7,54689446	7,77478706	8,199672345	7,900866808	7,942514505
RALGDS	8,499845887	8,366322214	8,77807713	8,573647187	8,672425342	8,129283017
RALGPS1	3,906890596	3,807354922	3,700439718	4,087462841	1,584962501	3,169925001
RALGPS2	7,17990909	7,129283017	7,442943496	8,060695932	7,982993575	7,977279923
RALY	6,554588852	6,930737338	7,285402219	7,022367813	7,321928095	7,169925001
RALYL	0	1	0	0	0	0
RAMP1	1,584962501	1	2,584962501	4,087462841	3	2
RAMP2	0	0	0	0	0	0
RAMP3	0	0	0	0	0	0
RAN	9,440869168	9,487840034	9,129283017	9,426264755	9,461479447	9,656424863
RANBP1	6,285402219	5,977279923	5,807354922	6,882643049	6,658211483	6,06608919
RANBP10	5,129283017	4,64385619	4,584962501	5,700439718	4,64385619	5,357552005
RANBP17	3	2,321928095	2	1	3	3,807354922
RANBP2	8,97441459	8,826548487	8,731319031	9,068778278	8,77807713	9,079484784
RANBP3	6,754887502	6,754887502	7,209453366	7,491853096	7,06608919	7,348728154
RANBP3L	0	0	0	1	1,584962501	0
RANBP6	7,442943496	7,392317423	7,62935662	7,577428828	7,62935662	7,741466986
RANBP9	7,159871337	7,076815597	7,055282436	7,700439718	7,451211112	7,672425342
RANGAP1	6,599912842	6,266786541	6,672425342	6,50779464	6,768184325	6,700439718
RANGRF	6,266786541	5,807354922	6,189824559	5,832890014	6,129283017	5,700439718
RAP1A	9,654636029	9,52160044	9,550746785	9,379378367	9,324180547	9,126704473
RAP1B	8,098032083	8,438791853	8,696967526	8,54303182	8,700439718	8,675957033
RAP1GAP	0	0	1	4,321928095	3,321928095	3,807354922
RAP1GAP2	4,95419631	4,906890596	5,044394119	4,321928095	3,321928095	4,64385619
RAP1GDS1	7,033423002	6,459431619	6,807354922	6	6,044394119	5,700439718
RAP2A	8,312882955	8,113742166	8,082149041	7,491853096	7,768184325	7,813781191
RAP2B	8,807354922	8,73470962	8,77478706	7,531381461	7,832890014	7,276124405
RAP2C	7,357552005	7,266786541	7,118941073	6,930737338	7,044394119	7,098032083
RAPGEF1	9,326429487	9,396604781	9,554588852	8,918863237	8,933690655	9,057991723
RAPGEF2	7,569855608	7,022367813	7,011227255	7,247927513	6,700439718	7,562242424
RAPGEF3	1,584962501	0	0	3,321928095	0	3,169925001
RAPGEF4	0	0	1	4,523561956	4	4,64385619
RAPGEF5	2,807354922	2,584962501	2	3,807354922	4	3,169925001
RAPGEF6	6,686500527	6,459431619	6,523561956	7,614709844	7,451211112	7,055282436
RAPGEFL1	0	0	1,584962501	0	2,321928095	0
RAPH1	4	3,321928095	4,247927513	2,321928095	1,584962501	2
RAPSN	0	0	1	0	0	2
RARA	6,50779464	6,727920455	6,714245518	6,930737338	6,882643049	7,098032083
RARB	0	1	0	1	1,584962501	0
RARG	4,392317423	4,754887502	4,247927513	3,807354922	4	3,807354922
RARRES1	0	1,584962501	0	2,321928095	0	0

RARRES2	0	0	0	0	0	0
RARRES3	7,918863237	8,28077077	7,965784285	7,794415866	8,113742166	7,813781191
RARS	8,426264755	8,164906927	8,060695932	8,539158811	8,30833903	8,463524373
RARS2	6,87036472	6,475733431	6,339850003	6,768184325	5,781359714	6,754887502
RASA1	6,569855608	6,459431619	6,475733431	6,375039431	6,584962501	7,011227255
RASA2	8,475733431	8,54689446	8,22881869	9,011227255	8,82336724	8,665335917
RASA3	8,562242424	8,388017285	8,238404739	8,554588852	8,906890596	8,569855608
RASA4	0	1	1	0	0	0
RASAL1	5,044394119	4,754887502	4,857980995	0	0	0
RASAL2	6,129283017	6,22881869	5,584962501	4,523561956	3,700439718	4,95419631
RASAL3	6,794415866	7,209453366	7,330916878	7,129283017	7,451211112	6,169925001
RASD1	0	1,584962501	2	0	2,321928095	3,169925001
RASD2	0	0	0	0	0	0
RASEF	0	0	0	0	0	0
RASGEF1A	3,700439718	3,807354922	3,906890596	3,807354922	4	2
RASGEF1B	6,475733431	6,672425342	6,266786541	5,614709844	5,64385619	5,554588852
RASGEF1C	0	0	0	0	0	0
RASGRF1	1,584962501	2,321928095	1,584962501	1	0	0
RASGRF2	5,554588852	5,64385619	5,754887502	7,022367813	6,700439718	6,491853096
RASGRP1	9,789533645	9,712527	9,71596199	9,807354922	10,01820018	9,539158811
RASGRP2	7,700439718	7,820178962	8,06608919	8,515699838	8,353146825	8,299208018
RASGRP3	5,247927513	5,523561956	5,614709844	5,459431619	5,977279923	5,95419631
RASGRP4	1,584962501	3,321928095	2,584962501	0	0	0
RASIP1	0	1,584962501	0	0	0	0
RASL10A	0	0	0	0	0	2
RASL10B	0	0	0	0	0	2
RASL11A	0	0	0	0	0	0
RASL11B	0	0	0	0	0	0
RASL12	1,584962501	0	0	1	3	4,64385619
RASSF1	6,64385619	7,199672345	7,400879436	7,129283017	7,209453366	6,965784285
RASSF10	0	0	0	0	0	0
RASSF2	8,864186145	8,851749041	8,686500527	8,299208018	8,194756854	8,144658243
RASSF3	9,717676423	9,83447105	9,605479518	9,527477006	9,658211483	9,306061689
RASSF4	7,087462841	7,169925001	7,523561956	2,321928095	4,247927513	0
RASSF5	10,11243951	10,16867212	10,06204614	10,45121111	10,56605404	10,34983409
RASSF6	3,700439718	3	2,807354922	4,857980995	2,321928095	4,64385619
RASSF7	4,64385619	4	4,754887502	0	4	2
RASSF8	4	2,584962501	0	1	4,459431619	3,807354922
RASSF9	2,321928095	0	0	0	1,584962501	0
RAVER1	5	5,044394119	5,554588852	4,857980995	5,781359714	4,64385619
RAVER2	2,321928095	0	2,584962501	0	0	0
RAX	0	0	0	0	0	0
RAX2	0	0	0	0	0	0
RB1	8,46760555	8,46760555	8,266786541	7,906890596	8,092757141	8,330916878
RB1CC1	9,257387843	9,079484784	9,303780748	9,477758266	9,233619677	9,548821908
RBAK	6,672425342	6,686500527	6,807354922	7,285402219	7,247927513	7,011227255
RBBP4	7,73470962	7,95419631	7,832890014	8,124121312	8,159871337	8,21916852
RBBP5	5,584962501	6,06608919	5,614709844	6,930737338	6,614709844	6,820178962
RBBP6	9,914385132	9,647458426	9,710806434	10,15860969	9,918863237	10,25148241
RBBP7	7,73470962	7,614709844	7,257387843	7,693486957	7,900866808	7,787902559
RBBP8	6,894817763	6,539158811	6,554588852	6,189824559	5,930737338	6,491853096
RBBP9	5,700439718	5,672425342	5,554588852	5,247927513	5,169925001	4,95419631
RBCK1	8,312882955	8,194756854	7,918863237	8,531381461	8,566054038	8,758223215
RBFA	5,129283017	4,392317423	4,169925001	1	4,459431619	2
RBFOX1	0	1	1,584962501	5,247927513	4,64385619	5,95419631
RBFOX2	1,584962501	0	2,584962501	2,807354922	1,584962501	3,807354922
RBFOX3	0	0	1,584962501	1	1,584962501	0
RBKS	2,584962501	1	1	2,807354922	3	4,64385619

RBL1	6,044394119	5,459431619	5,554588852	6,06608919	6,321928095	4,321928095
RBL2	9,569855608	9,577428828	9,73809226	10,38154295	10,18611424	10,19844504
RBM10	6,64385619	6,930737338	7,257387843	7,577428828	7,584962501	7,055282436
RBM11	1	2,321928095	2	0	1,584962501	3,807354922
RBM12	8,339850003	8,071462363	8,108524457	7,515699838	7,451211112	7,761551232
RBM12B	7,982993575	7,965784285	7,64385619	9,174925683	8,74819285	9,144658243
RBM14	6,321928095	6,339850003	6,108524457	6,820178962	6,285402219	5,95419631
RBM14-RBM4	0	0	0	0	2,321928095	0
RBM15	7,098032083	6,918863237	6,918863237	6,266786541	6,918863237	6,820178962
RBM15B	7,888743249	7,918863237	7,864186145	8,375039431	8,535275377	8,758223215
RBM17	9,501837185	9,583082768	9,485829309	10,03479896	10,09407769	10,22158712
RBM18	6,832890014	6,918863237	6,942514505	6,741466986	6,918863237	7,098032083
RBM19	5,584962501	5,554588852	5,426264755	5,614709844	5,459431619	6,169925001
RBM20	1	0	0	0	3	3,169925001
RBM22	8,618385502	8,810571635	8,820178962	8,519636253	8,607330314	8,434628228
RBM23	8,204571144	8,118941073	8,299208018	8,654636029	8,54689446	8,927777962
RBM24	0	0	0	0	0	0
RBM25	11,06272077	10,94251451	11,12412131	11,24555271	11,13249973	11,11439305
RBM26	9,813781191	9,756556323	9,885696373	10,09934781	10,00982862	10,28424575
RBM26-AS1	3,906890596	4	3,584962501	6,658211483	5,64385619	7,129283017
RBM27	8,523561956	8,361943774	8,214319121	8,897845456	8,948367232	9,063395081
RBM28	7,426264755	7,584962501	7,554588852	7,442943496	7,383704292	7,129283017
RBM3	9,383704292	9,477758266	9,457380879	9,038918989	9,312882955	8,903881846
RBM33	8,696967526	8,727920455	8,965784285	9,09011242	8,903881846	9,105908509
RBM34	5	4,906890596	4,459431619	5,129283017	4,247927513	5,554588852
RBM38	7,383704292	7,357552005	7,741466986	7,700439718	8,044394119	7,894817763
RBM39	10,70043972	10,55554777	10,66533592	10,83841608	10,68387187	10,86263736
RBM4	6,906890596	6,882643049	7,14974712	7,599912842	7,285402219	7,64385619
RBM41	7,209453366	7,129283017	7,392317423	7,693486957	7,614709844	8,21916852
RBM42	5,554588852	5,044394119	5,392317423	6,06608919	6,129283017	5,700439718
RBM43	6,266786541	6,087462841	6	6,62935662	6,459431619	6,930737338
RBM44	2,584962501	1	2,807354922	2,807354922	3	3,169925001
RBM45	5,930737338	5,977279923	6,189824559	7,426264755	7,285402219	8,033423002
RBM46	2,584962501	2,584962501	2	4,087462841	1,584962501	5,169925001
RBM47	8,434628228	8,233619677	8,430452552	3,807354922	4,459431619	4,95419631
RBM48	6,375039431	5,930737338	5,614709844	6,768184325	6,614709844	5,832890014
RBM4B	5	5,129283017	4,700439718	2,807354922	3,321928095	0
RBM5	8,618385502	8,614709844	8,647458426	9,312882955	9,131856961	9,033423002
RBM6	8,159871337	8,238404739	8,312882955	8,968666793	8,471675214	8,330916878
RBM7	6,50779464	6,554588852	6,569855608	7,209453366	6,918863237	7,622051819
RBM8A	8,487840034	8,791162889	8,820178962	8,696967526	9,084808388	8,675957033
RBM51	9,577428828	9,658211483	9,6794801	9,082149041	9,011227255	8,971543554
RBM52	2,584962501	3,807354922	3	0	0	0
RBM53	4,95419631	4,64385619	4,247927513	7,129283017	7,321928095	7,312882955
RBMX	9,11113567	9,174925683	9,09011242	9,614709844	9,567956075	9,407267764
RBMX2	7,266786541	6,930737338	6,87036472	7,499845887	7,22881869	7,169925001
RBMXL1	7,882643049	7,845490051	7,912889336	8,426264755	8,396604781	8,885696373
RBMXL2	0	0	0	0	0	0
RBMXL3	0	0	0	0	0	0
RBMY1A1	0	0	0	0	0	0
RBMY1A3P	0	0	0	0	0	0
RBMY1B	0	0	0	0	0	0
RBMY1D	0	0	0	0	0	0
RBMY1E	0	0	0	0	0	0
RBMY1F	0	0	0	0	0	0
RBMY1J	0	0	0	0	0	0
RBMY2EP	0	0	0	0	0	0
RBMY2FP	0	0	0	0	0	0

RBMY3AP	0	0	0	0	0	0
RBP1	0	0	0	0	0	0
RBP2	0	0	0	0	0	0
RBP3	0	0	0	0	0	0
RBP4	0	0	0	0	0	0
RBP5	0	0	0	0	0	0
RBP7	1	2,584962501	0	0	0	0
RBPJ	9,805743872	9,74819285	9,764871591	9,5980525	9,695228291	9,511752654
RBPJL	0	0	0	0	0	0
RBPM5	0	0	0	0	0	3,807354922
RBPM52	0	0	0	0	0	0
RBX1	7,971543554	8,321928095	8,082149041	7,592457037	7,965784285	7,787902559
RC3H1	8,383704292	8,348728154	8,603626345	8,77478706	8,64385619	8,816983623
RC3H2	8,22881869	8,204571144	8,113742166	8,434628228	8,515699838	8,73470962
RCAN1	6,64385619	6,614709844	6,339850003	5,129283017	4,807354922	3,169925001
RCAN2	1,584962501	1	1,584962501	0	0	0
RCAN3	8,857980995	8,813781191	8,682994584	9,517669388	9,388017285	9,548821908
RCBTB1	4,906890596	5,247927513	4,700439718	5,523561956	3,321928095	4,64385619
RCBTB2	7,584962501	7,451211112	7,599912842	7,813781191	7,475733431	7,832890014
RCC1	5,807354922	5,64385619	5,672425342	8,044394119	7,768184325	8,312882955
RCC2	9,060695932	9,296916207	9,247927513	8,731319031	8,754887502	8,569855608
RCCD1	5	5,129283017	4,584962501	4,087462841	4,247927513	3,169925001
RCE1	3,807354922	2,321928095	3,584962501	0	3,321928095	0
RCHY1	7,539158811	7,348728154	7,459431619	7,426264755	7,832890014	7,700439718
RCL1	5,807354922	5,672425342	5,321928095	5,129283017	5,977279923	5,169925001
RCN1	5,357552005	5,169925001	5,554588852	3,807354922	3,700439718	3,807354922
RCN2	7,781359714	7,87036472	7,930737338	8,409390936	8,413627929	8,366322214
RCN3	0	1	0	0	0	0
RCOR1	8,17990909	7,930737338	7,864186145	7,357552005	7,584962501	7,46760555
RCOR2	0	0	0	0	0	0
RCOR3	7,918863237	7,942514505	8,060695932	7,554588852	7,491853096	7,622051819
RCSD1	8,791162889	8,820178962	8,784634846	8,199672345	8,523561956	8,06608919
RCVRN	0	0	0	0	0	0
RD3	0	0	0	0	0	0
RDH10	4,459431619	5,357552005	5,247927513	5,754887502	5,727920455	5,832890014
RDH11	8,915879379	8,861086906	8,918863237	9,154818109	9,21916852	8,948367232
RDH12	0	0	0	0	0	0
RDH13	5,169925001	4,906890596	4,700439718	4,321928095	5,392317423	3,169925001
RDH14	6,700439718	6,977279923	6,614709844	7,339850003	7,348728154	7,562242424
RDH16	0	0	2	0	1,584962501	0
RDH5	1	2,584962501	1	0	0	0
RDH8	0	0	0	0	0	3,169925001
RDM1	0	0	0	0	1,584962501	0
RDX	8,909893084	8,781359714	8,948367232	7,894817763	7,672425342	7,942514505
REC8	5,285402219	5,044394119	5,357552005	3,321928095	4,459431619	4,64385619
RECK	5,727920455	5,584962501	5,614709844	5,930737338	6,658211483	6,06608919
RECQL	7,741466986	7,614709844	7,781359714	7,781359714	7,851749041	7,375039431
RECQL4	3	2,584962501	2,584962501	1	1,584962501	3,807354922
RECQL5	3,906890596	2,584962501	3,584962501	5,247927513	4,95419631	3,169925001
REEP1	1	0	2,584962501	3,321928095	3	2
REEP2	0	0	0	0	0	0
REEP3	8,022367813	8,038918989	7,960001932	7,055282436	7,209453366	6,62935662
REEP4	6,108524457	6,523561956	6,832890014	5	5,169925001	0
REEP5	9,426264755	9,348728154	9,296916207	8,442943496	8,607330314	8,087462841
REEP6	0	0	0	0	0	0
REG1A	0	0	0	0	0	0
REG1B	1	0	1	1	0	2
REG3A	0	0	0	0	0	0

REG3G	0	0	0	0	0	0
REG4	2,321928095	0	1,584962501	2,321928095	0	0
REL	8,603626345	8,224001674	8,400879436	8,897845456	8,73809226	8,915879379
RELA	8,312882955	8,204571144	8,388017285	8,787902559	8,807354922	8,584962501
RELB	7,50779464	7,994353437	7,982993575	8,625708843	8,73809226	8,686500527
RELL1	3,807354922	4,321928095	4,087462841	5,247927513	3,321928095	4,321928095
RELL2	2,584962501	0	2	0	0	0
RELN	1	3	2	5,357552005	5,930737338	6,409390936
RELT	5,426264755	5,977279923	5,523561956	3,321928095	4,247927513	4,321928095
REM1	0	0	0	0	0	0
REM2	1,584962501	1	0	4,523561956	3,321928095	3,807354922
REN	1	0	0	2,807354922	1,584962501	3,169925001
RENBP	2,321928095	1	1,584962501	2,321928095	0	0
REP15	0	0	1	0	1,584962501	0
REPIN1	6,475733431	6,357552005	6,392317423	6,554588852	6,375039431	6,754887502
REPS1	6,832890014	7,238404739	6,918863237	7,672425342	7,672425342	7,832890014
REPS2	3,700439718	3,584962501	3,321928095	1	0	0
RER1	7,787902559	8,092757141	8,118941073	7,409390936	7,707359132	7,592457037
RERE	8,370687407	8,335390355	8,475733431	8,710806434	8,491853096	8,515699838
RERG	1	1	0	2,321928095	3,321928095	0
REGL	0	0	0	0	0	0
RESP18	0	0	0	0	1,584962501	3,169925001
REST	9,216745858	9,036173613	8,971543554	9,226412193	9,071462363	9,17990909
RET	0	0	0	0	0	0
RETN	2,321928095	3,169925001	2,807354922	0	0	0
RETNLB	0	0	0	0	0	0
RETSAT	6,741466986	6,882643049	6,599912842	6,50779464	6,539158811	5,169925001
REV1	7,247927513	7,06608919	7,247927513	7,339850003	7,209453366	7,562242424
REV3L	7,912889336	7,8008999	8,016808288	8,442943496	8,330916878	8,816983623
REX01	1,584962501	3,807354922	3	2,807354922	3,700439718	2
REX01L2P	0	0	0	0	0	0
REX02	7,303780748	6,882643049	6,882643049	7,303780748	7,312882955	7,011227255
REX04	6,614709844	6,727920455	6,491853096	7,209453366	7,266786541	7,209453366
RFC1	8,658211483	8,28077077	8,519636253	9,152284842	8,962896005	9,079484784
RFC2	3,807354922	3,700439718	3	0	3	0
RFC3	5,392317423	5,285402219	5,129283017	4,523561956	4,247927513	4,95419631
RFC4	5,807354922	6,339850003	6,554588852	6,189824559	6,375039431	6,169925001
RFC5	4,64385619	4,906890596	4,754887502	5	4,807354922	2
RFESD	2,321928095	3,700439718	3,700439718	2,807354922	3,321928095	3,169925001
RFFL	7,658211483	7,74819285	7,592457037	7,876516947	7,876516947	8,108524457
RFK	7,714245518	7,876516947	7,383704292	7,14974712	6,965784285	6,321928095
RFNG	4	4,321928095	4,754887502	4,321928095	3	3,169925001
RFPL1	0	0	0	0	0	0
RFPL2	0	0	0	0	0	0
RFPL3	0	0	0	0	0	0
RFPL4A	0	0	0	0	0	0
RFPL4B	0	0	0	0	0	0
RFT1	5,357552005	5,426264755	5,857980995	4,087462841	4,807354922	3,807354922
RFTN1	8,417852515	8,413627929	8,209453366	8,857980995	8,957102042	8,569855608
RFTN2	1	0	1	0	2,321928095	2
RFWD3	5,832890014	6,285402219	5,95419631	5,882643049	6,614709844	6,882643049
RFX1	6,930737338	7,209453366	7,321928095	7,266786541	7,569855608	7,409390936
RFX2	3	3,169925001	3,700439718	3,807354922	3	3,807354922
RFX3	7,055282436	6,832890014	7,118941073	7,960001932	7,658211483	8,144658243
RFX4	1,584962501	2,584962501	0	4,857980995	3,700439718	5,554588852
RFX5	6,988684687	6,599912842	6,754887502	5,247927513	5,781359714	5,169925001
RFX6	3,906890596	3,321928095	3	4,523561956	3	4,95419631
RFX7	7,129283017	6,672425342	6,554588852	7,247927513	7,366322214	7,491853096

RFX8	0	0	1	0	0	0
RFXANK	4,392317423	4,64385619	4,906890596	3,807354922	2,321928095	2
RFXAP	5,247927513	4,754887502	4,857980995	5,129283017	5,554588852	5,554588852
RGL1	8,417852515	8,396604781	8,257387843	4,321928095	4,95419631	3,807354922
RGL2	5,523561956	5,357552005	5,672425342	7,515699838	6,614709844	7,672425342
RGL3	0	0	0	0	2,321928095	0
RGL4	3,321928095	3,321928095	4,392317423	2,807354922	3,700439718	3,807354922
RGMA	0	2,321928095	0	0	0	0
RGMB	4,459431619	3,584962501	4	5	5,169925001	4,64385619
RGN	0	0	0	0	0	0
RGP1	8,262094845	8,262094845	7,982993575	8,787902559	8,761551232	8,700439718
RGPD1	0	0	0	0	0	0
RGPD2	0	0	1	0	0	0
RGPD3	0	0	0	0	0	0
RGPD4	0	0	0	0	0	0
RGPD5	0	0	0	0	0	0
RGPD6	0	0	0	0	0	0
RGPD8	0	0	0	0	0	0
RGR	0	0	0	2,807354922	0	0
RGS1	7,614709844	7,64385619	7,707359132	8,832890014	8,74819285	9,385862401
RGS10	8,033423002	8,209453366	8,016808288	7,851749041	7,707359132	7,721099189
RGS11	0	0	0	0	0	0
RGS12	5,523561956	5,832890014	5,523561956	2,321928095	1,584962501	2
RGS13	2,321928095	0	0	2,807354922	0	0
RGS14	6,50779464	6,857980995	6,857980995	7,076815597	6,807354922	6,491853096
RGS16	2,807354922	3,584962501	1	5,247927513	5,169925001	5,357552005
RGS17	3,321928095	2,584962501	4,392317423	6,658211483	6,741466986	6,965784285
RGS18	7,189824559	6,977279923	6,392317423	7,076815597	7,247927513	7,813781191
RGS19	7,375039431	7,607330314	7,375039431	5,459431619	5,930737338	4,64385619
RGS2	8,915879379	8,826548487	8,611024797	8,50779464	8,64385619	8,569855608
RGS20	0	0	0	0	0	0
RGS21	0	0	0	0	0	0
RGS22	0	2,321928095	1,584962501	5	4,459431619	5,554588852
RGS3	4,700439718	4,392317423	4,906890596	5,357552005	6,087462841	4,64385619
RGS4	1	0	0	1	2,321928095	4,321928095
RGS5	3	3,321928095	3,321928095	5,614709844	4,95419631	6,700439718
RGS6	1	0	0	0	1,584962501	0
RGS7	0	0	0	0	0	0
RGS7BP	0	0	0	0	0	0
RGS8	0	0	0	0	0	0
RGS9	4	4,087462841	4,169925001	4,523561956	4,459431619	0
RGS9BP	0	0	0	0	0	0
RGSL1	0	0	0	2,321928095	3,321928095	2
RHAG	0	0	0	0	0	0
RHBDD1	5,781359714	5,977279923	5,523561956	5,754887502	5,285402219	5,554588852
RHBDD2	4,95419631	5,459431619	5,321928095	4,857980995	5,977279923	3,807354922
RHBDD3	3,459431619	3,584962501	2,584962501	1	2,321928095	3,807354922
RHBDF1	0	0	0	2,321928095	3,700439718	4,95419631
RHBDF2	8,144658243	8,451211112	8,73809226	7,409390936	7,64385619	6,62935662
RHBDL1	0	0	0	2,321928095	1,584962501	0
RHBDL2	0	0	0	0	0	2
RHBDL3	0	0	0	0	0	0
RHBG	0	0	0	0	0	0
RHCE	0	0	0	0	0	0
RHCG	0	0	0	0	0	0
RHD	0	0	0	0	0	0
RHEB	6,672425342	6,523561956	6,459431619	5,357552005	6,375039431	5,700439718
RHEBL1	4,169925001	4	3,700439718	1	1,584962501	0

RHO	0	0	0	0	0	0
RHOA	10,53040634	10,49785184	10,39339046	10,01680829	9,912889336	9,873444113
RHOB	6,491853096	6,321928095	5,95419631	5	4,247927513	5,832890014
RHOBTB1	2,807354922	3,169925001	2	0	0	2
RHOBTB2	4,247927513	3,906890596	4,392317423	1	2,321928095	0
RHOBTB3	5,727920455	6,108524457	6,189824559	4,700439718	5,392317423	4,95419631
RHOC	4,95419631	4,459431619	4,459431619	5	3	4,321928095
RHOD	0	0	0	0	0	0
RHOF	5,977279923	6,189824559	6,426264755	6,50779464	6,375039431	6,169925001
RHOG	7,139551352	7,044394119	6,781359714	6,584962501	6,741466986	6,930737338
RHOH	8,06608919	8,071462363	8,113742166	8,845490051	8,888743249	8,982993575
RHOI	0	0	0	0	3,321928095	0
RHOQ	9,2644426	9,216745858	9,21916852	7,189824559	7,312882955	7,055282436
RHOT1	8,060695932	8,016808288	8,164906927	7,442943496	7,366322214	7,46760555
RHOT2	7,076815597	7,339850003	7,592457037	7,62935662	7,599912842	7,169925001
RHOU	6,807354922	6,768184325	6,523561956	2,807354922	4,459431619	3,807354922
RHOV	0	0	0	0	0	0
RHOXF1	0	1	0	1	0	0
RHOXF2	0	0	0	0	0	0
RHOXF2B	0	0	0	0	0	0
RHPN1	0	0	2	0	0	4,321928095
RHPN2	0	0	0	2,807354922	0	0
RIBC1	0	0	0	2,807354922	0	0
RIBC2	0	0	0	2,321928095	0	3,169925001
RIC3	4,906890596	3,906890596	4	5,754887502	5,285402219	6,169925001
RIC8A	6,62935662	6,686500527	6,768184325	6,741466986	6,942514505	6,409390936
RIC8B	5,169925001	5,129283017	5,321928095	5,754887502	5,285402219	6,169925001
RICTOR	8,625708843	8,710806434	8,764871591	9,273795599	8,909893084	9,259743264
RIF1	9,038918989	9,041659152	9,174925683	9,330916878	9,25502857	9,605479518
RIIAD1	0	0	0	0	0	0
RILP	5	4,857980995	4,584962501	0	3,321928095	2
RILPL1	3	2,807354922	3	3,321928095	1,584962501	2
RILPL2	7,584962501	7,491853096	7,614709844	6,95419631	6,965784285	6,409390936
RIMBP2	0	0	0	0	0	0
RIMBP3	0	0	0	0	0	0
RIMBP3B	0	0	0	0	0	0
RIMBP3C	0	0	0	0	0	0
RIMKLA	0	0	0	2,321928095	1,584962501	2
RIMKLB	5,321928095	5,321928095	5,459431619	4,087462841	5,087462841	5,700439718
RIMS1	1	0	2,584962501	2,321928095	1,584962501	4,321928095
RIMS2	3,321928095	1	2,807354922	3,807354922	5,285402219	5,700439718
RIMS3	2,584962501	2,584962501	3,700439718	1	2,321928095	0
RIMS4	0	0	0	0	0	2
RIN1	3,321928095	3,584962501	3,321928095	0	0	0
RIN2	7,434628228	7,409390936	7,366322214	2,807354922	4,807354922	5,832890014
RIN3	5,392317423	5,930737338	5,614709844	6,658211483	6,321928095	5,357552005
RING1	6,409390936	6,658211483	6,64385619	6,06608919	5,554588852	5,169925001
RINL	5,584962501	5,044394119	5,169925001	5,459431619	5,977279923	5,169925001
RINT1	6,087462841	5,554588852	5,491853096	5,754887502	5,781359714	4,95419631
RIOK1	6,741466986	6,965784285	6,820178962	7,531381461	7,247927513	7,129283017
RIOK2	6,247927513	6,303780748	6,459431619	5,930737338	6,321928095	6,62935662
RIOK3	7,539158811	7,451211112	7,312882955	7,672425342	7,451211112	7,741466986
RIPK1	6,988684687	7,129283017	7,159871337	6,658211483	6,768184325	6,06608919
RIPK2	7,475733431	7,569855608	7,330916878	6,50779464	6,409390936	6,700439718
RIPK3	5,906890596	5,044394119	5,321928095	2,321928095	3	0
RIPK4	0	0	0	0	0	0
RIPPLY1	0	0	0	0	0	0
RIPPLY2	0	0	0	0	0	0

RIT1	7,900866808	8,076815597	8	6,266786541	6,741466986	6,569855608
RIT2	0	0	0	0	0	2
RLBP1	0	0	0	0	0	2
RLF	8,353146825	8,348728154	8,299208018	8,366322214	8,515699838	8,768184325
RLIM	7,622051819	7,794415866	7,845490051	7,918863237	7,888743249	8,189824559
RLN1	0	1	0	0	1,584962501	0
RLN2	3,321928095	0	1,584962501	2,321928095	2,321928095	3,807354922
RLN3	0	0	0	0	0	0
RMI1	6,62935662	6,599912842	6,321928095	5,930737338	5,977279923	6,06608919
RMI2	4,64385619	4,64385619	3,584962501	2,807354922	4,64385619	4,64385619
RMND1	4	4,459431619	4	4,087462841	4	3,169925001
RMND5A	8,113742166	7,832890014	7,864186145	8,233619677	8,194756854	8,049848549
RMND5B	3,584962501	2,321928095	4,087462841	2,807354922	4	0
RMRP	0	0	0	0	0	0
RMST	1	1,584962501	1,584962501	2,807354922	0	4,321928095
RNASE1	2,807354922	2,807354922	3	0	0	0
RNASE10	0	0	0	0	0	0
RNASE11	0	0	0	0	0	0
RNASE12	0	0	0	0	0	0
RNASE13	0	0	0	0	0	2
RNASE2	2,321928095	3	2,807354922	2,321928095	2,321928095	2
RNASE3	0	0	0	0	0	0
RNASE4	0	0	0	0	0	0
RNASE6	6,87036472	6,845490051	5,977279923	2,807354922	1,584962501	2
RNASE7	0	0	0	0	0	0
RNASE8	0	0	0	0	0	0
RNASE9	0	0	0	0	0	0
RNASEH1	6,554588852	6,523561956	6,768184325	6,977279923	7,17990909	7,562242424
RNASEH2A	2,807354922	3,700439718	3	4,087462841	0	3,807354922
RNASEH2B	8,14974712	8,108524457	8,022367813	8,103287808	8,139551352	8,016808288
RNASEH2C	5,832890014	5,832890014	5,754887502	5,459431619	5,64385619	5,357552005
RNASEK	2,584962501	3,321928095	2,807354922	5,754887502	5,087462841	5,357552005
RNASEK-C17orf49	0	0	0	0	0	0
RNASEL	6,285402219	6,189824559	5,977279923	5,523561956	5,727920455	5,554588852
RNASET2	7,845490051	8,199672345	7,930737338	7,813781191	7,22881869	6,62935662
RND1	2,321928095	1	3,700439718	5	4,247927513	5,700439718
RND2	0	0	0	1	0	0
RND3	0	0	0	0	0	0
RNF10	8,011227255	7,960001932	7,994353437	8,689997971	8,243173983	8,603626345
RNF103	5,672425342	5,64385619	5,95419631	6,741466986	6,247927513	6,569855608
RNF103-CHMP3	0	0	0	0	0	0
RNF11	7,839203788	7,409390936	7,577428828	7,592457037	7,707359132	7,87036472
RNF111	6,475733431	6,584962501	6,727920455	7,129283017	7	7,491853096
RNF112	0	1	0	0	3	0
RNF113A	6,14974712	5,832890014	5,882643049	6,820178962	6,658211483	6,965784285
RNF113B	0	0	0	0	0	0
RNF114	7,882643049	7,894817763	7,912889336	7,727920455	7,693486957	7,787902559
RNF115	8,14974712	8,366322214	8,209453366	8,647458426	8,607330314	8,665335917
RNF121	5,321928095	5,554588852	5,321928095	4,857980995	5,087462841	5,169925001
RNF122	2,807354922	2,584962501	1	0	1,584962501	0
RNF123	4,459431619	4,754887502	4,087462841	2,321928095	4	3,807354922
RNF125	6,95419631	7,087462841	6,906890596	6,375039431	6,189824559	5,700439718
RNF126	6,392317423	6,539158811	6,832890014	7,357552005	7,285402219	7,276124405
RNF126P1	0	0	0	0	0	0
RNF128	0	0	0	0	0	0
RNF13	8,285402219	8,055282436	7,977279923	7,169925001	7,417852515	7,348728154
RNF130	8,339850003	8,129283017	7,741466986	5,614709844	5,857980995	6,247927513
RNF133	0	0	0	0	0	0

RNF135	5,584962501	5,584962501	5,672425342	3,321928095	4,64385619	4,95419631
RNF138	7,768184325	7,900866808	7,658211483	7,62935662	7,794415866	7,700439718
RNF138P1	0	0	0	0	0	0
RNF139	7,159871337	7,209453366	7,011227255	6,321928095	6,459431619	6,491853096
RNF14	7,199672345	7,169925001	6,700439718	6	6,285402219	5,169925001
RNF141	6,129283017	6,06608919	5,95419631	5,930737338	6,247927513	5,95419631
RNF144A	5,321928095	5,614709844	6	6,62935662	6,741466986	6,754887502
RNF144B	6,022367813	6,554588852	6,189824559	3,807354922	3,321928095	0
RNF145	8,271463028	8,17990909	8,071462363	8,787902559	8,82336724	8,915879379
RNF146	7,247927513	7,285402219	7,599912842	8,266786541	8,243173983	8,413627929
RNF148	0	0	0	0	0	0
RNF149	8,312882955	8,30833903	8,022367813	8,487840034	8,573647187	8,392317423
RNF150	0	1,584962501	2	3,321928095	4,459431619	4,321928095
RNF151	0	0	0	0	0	0
RNF152	1,584962501	0	2,807354922	1	0	4,321928095
RNF157	5,129283017	4,857980995	5,584962501	6,95419631	6,807354922	6,491853096
RNF165	4,392317423	3,584962501	3	5,357552005	4,459431619	7,055282436
RNF166	7,426264755	7,857980995	7,960001932	7,918863237	7,807354922	7,491853096
RNF167	5,977279923	6,266786541	6,569855608	7,357552005	6,918863237	7,491853096
RNF168	8,233619677	8,214319121	8,184875343	8,519636253	8,836050355	8,654636029
RNF169	6,832890014	7,011227255	6,781359714	6,700439718	6,807354922	6,930737338
RNF17	1	0	0	0	0	0
RNF170	6	5,459431619	5,754887502	5,754887502	5,554588852	6,321928095
RNF175	2,807354922	2,584962501	2	4,321928095	3,700439718	4,321928095
RNF180	0	0	1	2,321928095	2,321928095	2
RNF181	7,312882955	7,303780748	7,348728154	6,06608919	6,882643049	5,357552005
RNF182	0	0	0	0	0	3,169925001
RNF183	0	0	1,584962501	3,321928095	3,321928095	4,95419631
RNF185	3,807354922	3	3,169925001	0	1,584962501	3,169925001
RNF186	0	0	0	0	0	0
RNF187	7,839203788	7,768184325	7,672425342	7,554588852	7,888743249	7,276124405
RNF19A	8,45532722	8,396604781	8,459431619	8,654636029	8,754887502	8,857980995
RNF19B	6,22881869	6,475733431	6,475733431	4,087462841	5,087462841	4,64385619
RNF2	6,491853096	6,339850003	6,741466986	6,741466986	6,942514505	5,169925001
RNF20	7,948367232	7,73470962	7,577428828	7,531381461	7,539158811	7,312882955
RNF207	1	0	1	0	0	0
RNF208	0	1,584962501	0	0	1,584962501	0
RNF212	2,584962501	2,321928095	3,700439718	4,523561956	1,584962501	5,357552005
RNF213	10,19105921	10,29806257	10,64024494	10,04575966	9,902375114	10,26561505
RNF214	6,64385619	6,930737338	6,942514505	7,392317423	7,383704292	7,442943496
RNF215	0	0	3	4,087462841	2,321928095	3,169925001
RNF216	7,459431619	7,569855608	7,714245518	8,13442632	8,139551352	8,21916852
RNF216P1	6,044394119	6,22881869	6,285402219	6,459431619	6,247927513	5,554588852
RNF217	5,832890014	5,554588852	5,491853096	3,807354922	4,459431619	5,832890014
RNF219	7,087462841	7,022367813	6,87036472	7,693486957	7,584962501	8,06608919
RNF220	7,209453366	7,129283017	7,087462841	6,768184325	7,022367813	6,62935662
RNF222	0	1	0	0	1,584962501	0
RNF223	0	0	0	0	0	0
RNF224	0	0	0	0	0	0
RNF24	7,266786541	7,321928095	7,459431619	5,129283017	6,087462841	5,357552005
RNF25	2,321928095	3,584962501	3	1	3,321928095	2
RNF26	4,523561956	5,392317423	4,459431619	4,700439718	4	2
RNF31	1	0	0	0	0	0
RNF32	1	1	0	1	2,321928095	4,321928095
RNF34	7,851749041	8,038918989	7,894817763	8,252665432	8,483815777	8,503825738
RNF38	7,209453366	7,285402219	7,276124405	7,392317423	7,539158811	7,247927513
RNF39	0	0	0	0	0	0
RNF4	6,129283017	6,266786541	6,087462841	7	6,539158811	7,011227255

RNF40	6,569855608	6,321928095	6,339850003	5,832890014	6,321928095	6,169925001
RNF41	7,321928095	7,339850003	7,108524457	7,022367813	7,06608919	6,820178962
RNF43	1	3,169925001	0	2,807354922	0	2
RNF44	9,152284842	8,977279923	9,022367813	9,744833837	9,445014846	9,33315535
RNF5	5,044394119	4,906890596	5,247927513	3,321928095	4,95419631	2
RNF5P1	0	0	0	0	0	0
RNF6	7,238404739	7	6,64385619	7,129283017	7,159871337	7,169925001
RNF7	7,451211112	7,607330314	7,515699838	7,209453366	7,17990909	7,247927513
RNF8	6,285402219	6,392317423	6,303780748	6,409390936	6,285402219	6,491853096
RNFT1	5,614709844	5,672425342	5,882643049	2,807354922	4,459431619	4,64385619
RNFT2	2,807354922	3,169925001	1,584962501	2,807354922	3	0
RNGTT	6,303780748	5,930737338	6,375039431	6,375039431	6,375039431	5,95419631
RNH1	7,982993575	8,266786541	8,361943774	6,930737338	6,700439718	6,169925001
RNLS	2,321928095	2,321928095	1,584962501	1	1,584962501	0
RNMT	8,124121312	7,87036472	8,118941073	8,451211112	8,515699838	8,515699838
RNPC3	7,658211483	7,426264755	7,6794801	8,103287808	7,672425342	8,159871337
RNPEP	6,807354922	6,459431619	6,169925001	5	5,087462841	5,169925001
RNPEPL1	5,781359714	6,14974712	6,06608919	5,247927513	6,087462841	5,169925001
RNPS1	7,409390936	7,21916852	6,882643049	7,741466986	7,64385619	7,672425342
RNU11	1	1	0	3,807354922	3,321928095	3,807354922
RNU12	0	0	0	0	0	0
RNU4ATAC	7,21916852	7,159871337	7,64385619	7,906890596	8,233619677	8,174925683
RNU5D-1	0	0	0	0	0	0
RNU5E-1	0	0	0	0	0	0
RNU5F-1	3,321928095	2,321928095	3	4,321928095	2,321928095	3,807354922
RNU6ATAC	1	0	0	3,321928095	0	4,321928095
RNY4	1	2,584962501	1,584962501	2,321928095	3	2
ROBO1	2,584962501	0	0	3,321928095	3	3,807354922
ROBO2	2,321928095	1	1,584962501	2,321928095	1,584962501	3,807354922
ROBO3	2,807354922	2,321928095	3,169925001	3,321928095	3,321928095	2
ROBO4	0	0	0	0	1,584962501	0
ROCK1	10,43671154	10,34762137	10,4767462	10,48381578	10,23720996	10,31741261
ROCK1P1	0	1	1,584962501	0	0	0
ROCK2	8,044394119	7,942514505	7,900866808	7,321928095	7,451211112	7,129283017
ROGDI	4,459431619	4,857980995	4,857980995	0	1,584962501	0
ROM1	2,584962501	2,321928095	2,584962501	2,807354922	1,584962501	0
ROMO1	7,499845887	6,930737338	7,055282436	5,832890014	6,539158811	5,832890014
ROPN1	0	0	0	0	1,584962501	2
ROPN1B	0	0	0	0	0	0
ROPN1L	0	0	0	0	0	0
ROR1	3,321928095	2,584962501	2,807354922	4,523561956	5,169925001	5,357552005
ROR2	0	0	0	0	0	0
RORA	9,396604781	9,240791332	9,28771238	9,941047606	9,95419631	10,16616308
RORB	1,584962501	0	1,584962501	2,807354922	1,584962501	3,169925001
RORC	2,321928095	1	0	1	3	0
ROS1	0	0	1	3,807354922	3	0
RP1	1	1	1	0	1,584962501	0
RP1L1	0	0	0	0	0	0
RP2	7,857980995	8,108524457	8,016808288	6,930737338	6,882643049	6,62935662
RP9	6,614709844	6,569855608	6,475733431	7,247927513	7,312882955	7,894817763
RP9P	2,807354922	2,584962501	2,807354922	2,321928095	2,321928095	0
RPA1	7,276124405	7,357552005	7	7,768184325	7,366322214	7,409390936
RPA2	6,754887502	6,965784285	6,768184325	7,339850003	7,266786541	6,491853096
RPA3	6,845490051	6,475733431	6,50779464	7,321928095	7,321928095	6,820178962
RPA4	2,584962501	0	2	2,807354922	2,321928095	2
RPAIN	6,894817763	6,807354922	6,569855608	7,339850003	7,139551352	7,375039431
RPAP1	5,614709844	4,95419631	5,554588852	6,06608919	5,554588852	5,700439718
RPAP2	7,022367813	7	6,906890596	8,451211112	8,426264755	8,622051819

RPAP3	8,28077077	8,233619677	8,330916878	7,055282436	7,321928095	6,62935662
RPE	6,686500527	6,375039431	5,977279923	6,189824559	6,189824559	6,62935662
RPE65	0	0	0	0	0	0
RPF1	7,781359714	7,95419631	7,787902559	7,64385619	7,807354922	7,46760555
RPF2	7	6,882643049	6,781359714	6,459431619	7	6,820178962
RPGR	6,247927513	5,554588852	6,169925001	5,754887502	5,392317423	4,95419631
RPGRIP1	1,584962501	2,584962501	0	0	0	0
RPGRIP1L	4,392317423	3	3,584962501	0	3	5,169925001
RPH3A	0	0	0	0	2,321928095	0
RPH3AL	1	2,321928095	0	2,321928095	2,321928095	0
RPIA	6,906890596	7,64385619	7,62935662	7,700439718	7,851749041	7,312882955
RPL10	8,921840937	8,951284715	8,622051819	9,97441459	10,09407769	10,09011242
RPL10A	9,2644426	9,25502857	9,189824559	10,36194377	10,41151099	10,64295422
RPL10L	0	0	0	0	0	0
RPL11	11,13249973	11,18982456	11,20028561	11,87920032	11,96578428	11,93553341
RPL12	9,002815016	8,960001932	8,918863237	10,04302728	10,11113567	10,12670447
RPL13	10,95927751	11,09539702	10,95927751	11,84549005	11,87920032	11,87920032
RPL13A	10,35314683	10,41890673	10,33873638	11,14274528	11,14274528	11,21249639
RPL13AP17	0	0	0	0	0	0
RPL13AP20	1,584962501	2,321928095	2	4,857980995	4,64385619	5,169925001
RPL13AP3	1	3,700439718	3,321928095	4,321928095	4,459431619	3,807354922
RPL13AP5	8,366322214	8,13442632	8,049848549	9,73470962	9,640244936	9,952741247
RPL13AP6	1	2,584962501	1	2,807354922	1,584962501	4,321928095
RPL13P5	4,247927513	3,807354922	3,807354922	0	4	2
RPL14	9,949826711	9,84862294	9,808964175	10,79522797	10,83051521	10,93442804
RPL15	10,85096815	10,92407019	10,96794671	11,47015044	11,43567026	11,52012755
RPL17	4,247927513	3,700439718	4,906890596	5,930737338	5,392317423	6,491853096
RPL17-C18orf32	0	0	0	0	0	0
RPL18	10,56319627	10,67683861	10,77478706	11,50481899	11,57412044	11,48884435
RPL18A	4,906890596	5,087462841	4,392317423	7,62935662	7,912889336	7,562242424
RPL19	10,66533592	10,70563239	10,70043972	11,53527538	11,45532722	11,59058705
RPL21	5,209453366	5,614709844	5,357552005	6,129283017	6,882643049	6,62935662
RPL21P28	0	0	0	1	1,584962501	0
RPL21P44	3,459431619	3,807354922	3,584962501	6,06608919	5,554588852	5,832890014
RPL22	8,515699838	8,751544059	8,707359132	10,23481743	10,17242751	10,44914865
RPL22L1	7,303780748	7,303780748	7,321928095	6,95419631	7,266786541	7,312882955
RPL23	11,55458885	11,55458885	11,50481899	11,93553341	11,91101741	11,96578428
RPL23A	8,903881846	8,930737338	8,487840034	10,12153352	10,05120894	10,24555271
RPL23AP32	1	0	0	0	1,584962501	3,169925001
RPL23AP53	0	2,321928095	2,807354922	0	0	2
RPL23AP64	0	0	0	3,321928095	0	3,169925001
RPL23AP7	0	0	0	0	0	0
RPL23AP82	2,807354922	1,584962501	0	0	0	0
RPL23P8	5,321928095	4,754887502	4,857980995	7	7,022367813	7,247927513
RPL24	9,194756854	9,294620749	9,459431619	10,26091953	10,36522885	10,36194377
RPL26	11,18982456	11,33539035	11,33539035	11,74315139	11,64069684	11,84549005
RPL26L1	5,554588852	5,357552005	5,321928095	4,087462841	5,087462841	5,554588852
RPL27	10,90162116	10,99010396	11,01402047	11,52012755	11,59058705	11,55458885
RPL27A	11,99753235	12,14815877	12,37721053	12,56176526	12,78810655	12,68584381
RPL28	8,991521846	8,8008999	8,845490051	9,658211483	9,733015322	9,753216749
RPL29	7,741466986	7,960001932	7,700439718	9,164906927	9,17990909	9,364134655
RPL29P2	0	0	0	0	0	0
RPL3	6,965784285	7,076815597	6,857980995	8,741466986	9,098032083	9
RPL30	11,93553341	11,99753235	11,87920032	12,37721053	12,37721053	12,37721053
RPL31	11,36358725	11,40301202	11,41943355	11,96578428	11,93553341	11,91101741
RPL31P11	2,321928095	2,807354922	1	5,700439718	5,857980995	6,491853096
RPL32	11,02097994	11,11439305	11,08148344	11,7232343	11,69913863	11,7232343
RPL32P3	4,700439718	4,523561956	5,044394119	6,741466986	6,247927513	6,321928095

RPL34	11,68123841	11,74315139	11,84549005	12,10590851	12,03514275	12,10590851
RPL35	9,842350343	9,95419631	10,20212382	10,9505559	11,06272077	11,07347215
RPL35A	11,20028561	11,16176174	11,18177344	11,81097322	11,81097322	11,81097322
RPL36	9,927777962	10,12153352	10,09934781	11,03479896	11,02097994	11,00632608
RPL36A	6,285402219	6,087462841	6,303780748	7,714245518	7,721099189	7,539158811
RPL36A-HNRNPH2	0	0	0	0	0	0
RPL36AL	9,776433032	9,853309555	9,726218159	10,47370575	10,44604941	10,36194377
RPL37	11,45532722	11,30663136	11,28019079	12,0657527	11,99753235	12,03514275
RPL37A	12,03514275	11,93553341	11,81097322	12,68584381	12,56176526	12,56176526
RPL38	11,14274528	11,10459875	11,14274528	11,69913863	11,68123841	11,76404222
RPL39	9,403012024	9,736401931	10,09407769	10,51569984	10,63753055	10,62570884
RPL39L	4,584962501	4,087462841	4,169925001	2,807354922	4	3,169925001
RPL3L	0	0	0	0	0	0
RPL4	9,605479518	9,588714636	9,339850003	10,69609817	10,71080643	10,84235034
RPL41	7,539158811	7,982993575	8,383704292	8,668884984	8,971543554	9,087462841
RPL5	10,89254282	10,85486838	10,67154107	11,60408986	11,52012755	11,57412044
RPL6	7,285402219	7,321928095	7,276124405	8,836050355	8,379378367	8,965784285
RPL7	3,906890596	4,64385619	3,807354922	6,129283017	5,087462841	5,169925001
RPL7A	9,818582177	9,859534786	9,802516365	10,65284497	10,72706956	10,70043972
RPL7L1	7,409390936	7,276124405	7,321928095	8,011227255	7,820178962	7,851749041
RPL8	9,77148947	9,994353437	10,14082977	11,04371086	11,04371086	10,95927751
RPL9	7,321928095	7,888743249	8,06608919	9,076815597	8,948367232	9,019590728
RPLP0	9,927777962	10,16113188	10,24555271	11,03479896	11,03479896	10,99576715
RPLPOP2	2,807354922	0	1	2,321928095	3,321928095	2
RPLP1	11,76404222	11,91101741	11,96578428	12,29232163	12,29232163	12,29232163
RPLP2	11,69913863	11,76404222	11,69913863	12,19075065	12,19075065	12,14815877
RPN1	9,147204925	9,366322214	9,197216693	8,703903573	8,857980995	8,675957033
RPN2	8,791162889	8,768184325	8,717676423	8,159871337	8,113742166	8,392317423
RPP14	6,781359714	6,754887502	6,754887502	7,864186145	7,614709844	7,700439718
RPP21	3	2,321928095	4,459431619	1	4	0
RPP25	3,459431619	3	2,807354922	1	1,584962501	0
RPP30	6,409390936	6,209453366	6,06608919	6,189824559	6,614709844	6,321928095
RPP38	5,554588852	5	5,321928095	6,375039431	4,95419631	5,95419631
RPP40	4,523561956	4,087462841	4,169925001	2,321928095	3,321928095	3,807354922
RPPH1	0	0	0	0	0	0
RPRD1A	5,781359714	5,977279923	5,754887502	6,906890596	6,459431619	6,62935662
RPRD1B	6,64385619	6,62935662	7,022367813	7,839203788	7,614709844	7,87036472
RPRD2	7,794415866	8,011227255	7,965784285	7,994353437	8,082149041	8,271463028
RPRM	0	0	0	0	0	0
RPRML	0	0	0	0	0	0
RPS10	7,459431619	7,820178962	8,06608919	9,095397023	9,21916852	9,385862401
RPS10-NUDT3	0	0	0	0	0	0
RPS10P7	3,321928095	3,169925001	4,459431619	5	4,807354922	5,169925001
RPS11	10,78953364	10,93442804	11,02097994	11,59058705	11,60408986	11,60408986
RPS12	11,41943355	11,57412044	11,60408986	12,14815877	12,0657527	12,19075065
RPS13	10,12928302	10,10983065	9,902375114	10,94251451	10,95927751	11,07347215
RPS14	11,43567026	11,53527538	11,55458885	12,03514275	12,10590851	12,0657527
RPS15	8,392317423	8,654636029	8,599912842	9,744833837	9,862637358	9,789533645
RPS15A	9,405141463	9,06608919	9,06608919	10,40407714	10,52747701	10,47978026
RPS15AP10	3	3,807354922	2,584962501	4,321928095	4,459431619	4,64385619
RPS16	10,81618368	10,83447105	10,94251451	11,66400276	11,7232343	11,66400276
RPS16P5	0	0	0	0	0	0
RPS17	9,189824559	9,240791332	9,424166289	10,25620869	10,2467406	10,39553414
RPS18	9,99859043	9,764871591	9,413627929	11,08613623	11,2227949	11,16176174
RPS19	10,78135971	10,86263736	10,70563239	11,68123841	11,74315139	11,69913863
RPS19BP1	5,832890014	6,108524457	6,285402219	6,321928095	6,459431619	5,95419631
RPS2	8,797661526	9,016808288	8,861086906	10,13699111	10,14082977	10,18858885
RPS20	10,70563239	10,76652891	10,71681946	11,48884435	11,53527538	11,53527538

RPS21	10,93442804	10,99010396	10,91662592	11,62021983	11,66400276	11,64069684
RPS23	10,22761594	10,23720996	10,27844946	11,26912668	11,34706766	11,37666806
RPS24	11,33539035	11,47015044	11,48884435	11,76404222	11,76404222	11,68123841
RPS25	8,696967526	8,442943496	8,519636253	10,06474276	10,11113567	10,14338321
RPS26	4	4,169925001	4,64385619	5,247927513	4,807354922	4,95419631
RPS26P11	0	0	0	0	3	0
RPS27	6,87036472	6,554588852	6,375039431	8,299208018	8,321928095	8,758223215
RPS27A	10,55074679	10,78135971	10,64835758	11,40301202	11,36358725	11,41943355
RPS27L	8,62935662	8,894817763	8,897845456	8,204571144	8,584962501	8,569855608
RPS28	10,30378075	10,56033283	10,55842071	11,16176174	11,18982456	11,31741261
RPS29	12,78810655	12,78810655	12,78810655	13,11715606	13,62285259	13,62285259
RPS2P32	0	2,321928095	1,584962501	0	0	0
RPS3	10,27029533	10,45532722	10,64024494	11,29289676	11,41943355	11,29289676
RPS3A	6,794415866	6,977279923	7,139551352	8,592457037	8,503825738	8,434628228
RPS4X	10,60640521	10,83447105	10,99576715	11,57412044	11,55458885	11,62021983
RPS4Y1	9,204571144	9,319672121	9,276124405	9,968666793	9,99859043	9,987264012
RPS4Y2	0	0	0	0	0	0
RPS5	9,276124405	9,405141463	9,290018847	10,46352437	10,61194694	10,67154107
RPS6	11,96578428	11,96578428	11,91101741	12,46275787	12,46275787	12,46275787
RPS6KA1	6,807354922	7,06608919	6,807354922	6,50779464	6,087462841	6,06608919
RPS6KA2	5,169925001	4,64385619	5,426264755	5	5,087462841	4,64385619
RPS6KA3	8,921840937	8,86727874	8,982993575	9,493855449	9,396604781	9,385862401
RPS6KA4	4,700439718	4,584962501	3,700439718	2,807354922	3	0
RPS6KA5	8,016808288	7,876516947	8,113742166	7,794415866	7,523561956	7,787902559
RPS6KA6	2,584962501	3,321928095	2,807354922	4,523561956	5,087462841	4,95419631
RPS6KB1	7,330916878	7,17990909	7,442943496	7,714245518	7,539158811	7,276124405
RPS6KB2	5,882643049	5,95419631	6,087462841	5,614709844	6,459431619	5,554588852
RPS6KC1	5,832890014	5,727920455	5,554588852	4,523561956	2,321928095	3,807354922
RPS6KL1	0	1	0	0	0	0
RPS7	7,965784285	7,768184325	7,303780748	9,147204925	9,204571144	9,299208018
RPS7P5	0	1,584962501	2	3,321928095	2,321928095	3,169925001
RPS8	11,66400276	11,59058705	11,64069684	12,24138736	12,24138736	12,24138736
RPS9	8,939579214	9,306061689	9,189824559	10,19475685	10,42311591	10,30035256
RPSA	7,383704292	7,076815597	7,348728154	8,471675214	8,392317423	8,675957033
RPSAP52	0	0	1	0	0	0
RPSAP58	2,807354922	1,584962501	3,169925001	4,523561956	4,807354922	2
RPSAP9	0	0	0	0	0	0
RPTN	0	0	0	0	0	0
RPTOR	3,807354922	4	4	4,321928095	3,321928095	4,321928095
RPUSD1	2,321928095	3,807354922	3,169925001	1	1,584962501	0
RPUSD2	6,14974712	6,475733431	6,247927513	7,64385619	7,74819285	7,894817763
RPUSD3	5,044394119	4,95419631	5,321928095	4,087462841	4,64385619	2
RPUSD4	7,169925001	7,169925001	6,988684687	7,515699838	7,64385619	7,169925001
RRAD	0	0	0	0	3	2
RRAGA	7,686500527	7,64385619	7,276124405	7,614709844	7,400879436	7,348728154
RRAGB	4,64385619	4,64385619	4,459431619	4,523561956	3,700439718	3,169925001
RRAGC	7,303780748	7,247927513	7,257387843	7,055282436	6,768184325	6,169925001
RRAGD	7,614709844	6,988684687	7,139551352	5,247927513	6,584962501	4,64385619
RRAS	5,321928095	5,672425342	5,882643049	2,807354922	0	3,169925001
RRAS2	5,64385619	5,781359714	5,129283017	6,658211483	6,247927513	7,209453366
RRBP1	7,276124405	7,451211112	7,658211483	6	6,409390936	6,06608919
RRB1	6,741466986	6,658211483	7,139551352	6,741466986	6,658211483	6,965784285
RRH	0	0	0	0	0	0
RRM1	8,731319031	8,951284715	8,654636029	8,103287808	8,665335917	8,108524457
RRM2	1	0	2	0	0	0
RRM2B	7,339850003	7,06608919	7,247927513	6,266786541	6,584962501	6,491853096
RRN3	7,139551352	6,977279923	7,159871337	8,124121312	8,103287808	8,06608919
RRN3P1	4,64385619	4,392317423	4,459431619	5,129283017	4,95419631	5,357552005

RRN3P2	0	0	1	0	0	0
RRN3P3	4,700439718	5,554588852	4,754887502	4,087462841	4,807354922	4,321928095
RRNAD1	3,584962501	3,584962501	3,584962501	3,321928095	3,700439718	3,169925001
RRP1	4,247927513	4,584962501	4,584962501	4,087462841	4,247927513	4,64385619
RRP12	3,584962501	3,584962501	3,321928095	2,807354922	1,584962501	0
RRP15	6,857980995	7,303780748	7,033423002	7,577428828	7,383704292	7,918863237
RRP1B	7,787902559	7,584962501	7,515699838	7,982993575	8,082149041	8,21916852
RRP36	6,266786541	6,209453366	6,044394119	6,658211483	6,741466986	6,569855608
RRP7A	5,491853096	5,614709844	5,882643049	5,832890014	6,044394119	5,700439718
RRP8	5,930737338	6,22881869	6,285402219	7,392317423	7,247927513	7,312882955
RRP9	4,321928095	3	3,584962501	2,321928095	4,459431619	0
RRS1	7,209453366	7,285402219	7,209453366	7,960001932	8,022367813	7,851749041
RS1	0	0	0	0	0	0
RSAD1	4,754887502	5,321928095	4,64385619	6,266786541	4,95419631	5,554588852
RSAD2	6,189824559	5,781359714	5,672425342	4,700439718	5,169925001	6,247927513
RSBN1	8,599912842	8,73470962	8,882643049	9,394462695	9,396604781	9,355351096
RSBN1L	8,724513853	8,519636253	8,515699838	9,047123912	9,025139562	8,965784285
RSC1A1	0	0	0	0	0	0
RSF1	9,556506055	9,430452552	9,645658432	10,26795708	10,07146236	10,34318572
RSL1D1	8,74819285	8,689997971	8,519636253	9,832890014	9,764871591	9,859534786
RSL24D1	8,535275377	8,30833903	8,129283017	9,257387843	9,330916878	9,306061689
RSPH1	0	0	0	2,807354922	0	0
RSPH10B	0	0	0	1	0	2
RSPH10B2	0	0	0	0	0	0
RSPH3	5,357552005	5,357552005	5	4,321928095	4	2
RSPH4A	1,584962501	1	2,584962501	5,882643049	4,95419631	6,882643049
RSPH6A	0	0	0	0	0	3,169925001
RSPH9	0	0	0	0	0	0
RSP01	0	0	0	0	0	0
RSP02	0	0	0	0	0	3,169925001
RSP03	1	0	0	1	2,321928095	0
RSP04	0	0	1	0	0	0
RSPRY1	5,95419631	6,129283017	6,491853096	6,794415866	6,857980995	6,247927513
RSRC1	8,592457037	8,330916878	8,487840034	8,696967526	8,379378367	8,447083226
RSRC2	9,233619677	9,044394119	9,076815597	9,556506055	9,513727596	9,824958741
RSU1	8,487840034	8,434628228	8,379378367	6,741466986	7,159871337	7,169925001
RTBDN	0	0	0	0	0	0
RTel1	0	0	0	0	0	0
RTel1-TNFRSF6B	0	0	0	0	0	0
RTF1	8,960001932	8,965784285	8,882643049	9,002815016	9,17990909	9,164906927
RTKN	1	0	0	0	0	0
RTKN2	5,727920455	5,832890014	6,169925001	6,321928095	6,189824559	6,06608919
RTL1	0	0	0	0	0	0
RTN1	6,475733431	6,741466986	6,491853096	0	0	0
RTN2	0	0	2	0	0	0
RTN3	8,357552005	8,375039431	8,396604781	6,06608919	6,459431619	5,169925001
RTN4	10,44604941	10,51569984	10,4767462	9,038918989	9,529430554	8,991521846
RTN4IP1	4	3,169925001	4,087462841	3,807354922	4	3,807354922
RTN4R	4,584962501	4,857980995	4,584962501	4,321928095	4,459431619	2
RTN4RL1	0	0	0	0	0	0
RTN4RL2	0	0	0	0	0	0
RTP1	0	0	0	2,807354922	3	3,807354922
RTP2	0	0	0	0	0	0
RTP3	0	0	0	0	0	0
RTP4	5,357552005	5,321928095	4,459431619	4,700439718	5,857980995	5,554588852
RTTN	5,044394119	4	4,169925001	5,459431619	5,554588852	4,95419631
RUFY1	7,599912842	7,483815777	7,321928095	7,076815597	7,247927513	6,754887502
RUFY2	6,189824559	5,807354922	6,044394119	5,459431619	5,727920455	6,754887502

RUFY3	7,17990909	7,055282436	7,276124405	7,375039431	6,832890014	7,409390936
RUFY4	3,321928095	2,321928095	2	0	0	0
RUNDC1	6,285402219	5,857980995	6,169925001	6,266786541	6,321928095	6,491853096
RUNDC3A	0	0	1	0	0	2
RUNDC3B	4	3,807354922	4,169925001	5,523561956	6,584962501	6,965784285
RUNX1	7,918863237	7,942514505	7,942514505	8,060695932	8,159871337	7,813781191
RUNX1T1	3,700439718	4,392317423	4,584962501	6,906890596	6,807354922	7,87036472
RUNX2	5,807354922	5,584962501	6,06608919	5	5,554588852	4,64385619
RUNX3	9,829722735	9,87958325	9,786269628	10,07146236	10,2467406	9,987264012
RUSC1	4,169925001	4,700439718	4,754887502	3,807354922	3	2
RUSC1-AS1	1,584962501	1,584962501	0	0	0	0
RUSC2	3,807354922	3	2,584962501	0	0	0
RUVBL1	6,022367813	6,129283017	6,569855608	7,247927513	7,247927513	6,820178962
RUVBL2	4,392317423	4,95419631	3,807354922	2,321928095	4	0
RWDD1	8,344295908	8,247927513	8,129283017	8,339850003	8,392317423	8,447083226
RWDD2A	4,321928095	3,584962501	2,584962501	4,087462841	4,64385619	4,321928095
RWDD2B	4,392317423	3,584962501	4,247927513	5,129283017	5,459431619	4,95419631
RWDD3	2,807354922	2,584962501	1	0	0	0
RWDD4	6	5,247927513	4,64385619	5,614709844	5,930737338	5,169925001
RXFP1	0	1	1	2,321928095	1,584962501	2
RXFP2	0	0	0	0	0	0
RXFP3	0	0	0	0	0	0
RXFP4	0	0	0	0	0	0
RXRA	8,174925683	8,13442632	8,243173983	5,247927513	6,129283017	5,700439718
RXRB	5,357552005	5,459431619	5,930737338	6,06608919	6,459431619	5,700439718
RXRG	0	0	0	0	0	0
RYBP	8,820178962	8,861086906	8,693486957	8,980139578	8,807354922	8,982993575
RYK	7,076815597	7,044394119	7,392317423	6,741466986	6,768184325	6,321928095
RYR1	2,321928095	1	0	4,523561956	3	4,64385619
RYR2	3	2,321928095	1,584962501	5,700439718	5,285402219	5,700439718
RYR3	2,584962501	2,321928095	2	0	0	3,807354922
S100A1	0	0	0	0	0	0
S100A10	8,781359714	8,915879379	8,724513853	8,022367813	8,285402219	7,312882955
S100A11	8,584962501	8,845490051	8,971543554	5,700439718	6,832890014	5,700439718
S100A12	5,321928095	5,247927513	5,584962501	1	1,584962501	0
S100A13	1	3,169925001	3	5,129283017	3,700439718	5,554588852
S100A14	0	0	0	1	0	0
S100A16	0	0	0	0	0	0
S100A2	0	0	0	0	0	0
S100A3	0	0	0	0	0	0
S100A4	9,667111542	9,891783703	9,544964433	8,049848549	8,321928095	7,592457037
S100A5	0	0	1	0	0	0
S100A6	10,77478706	10,88493365	10,86263736	8,942514505	9,306061689	8,515699838
S100A7	0	0	0	0	0	0
S100A7A	0	0	0	0	0	0
S100A7L2	0	0	0	0	0	0
S100A8	10,74986943	10,65284497	10,65999589	7,475733431	7,876516947	7,592457037
S100A9	9,348728154	9,661778098	10,07547915	6,266786541	7,044394119	7,129283017
S100B	0	0	0	0	0	0
S100G	0	0	0	0	0	0
S100P	3,584962501	1,584962501	2,807354922	2,321928095	0	3,807354922
S100PBP	6,857980995	6,672425342	6,754887502	7,554588852	7,209453366	7,129283017
S100Z	1,584962501	1,584962501	1	1	1,584962501	2
S1PR1	8,885696373	8,915879379	8,703903573	9,299208018	9,368506462	9,049848549
S1PR2	6,06608919	6	5,906890596	2,807354922	4,459431619	3,807354922
S1PR3	0	1,584962501	2	0	1,584962501	0
S1PR4	6,129283017	6,554588852	6,409390936	6,459431619	6,882643049	3,807354922
S1PR5	7,74819285	7,614709844	7,539158811	8,479780264	8,693486957	8,271463028

SAA1	0	0	0	0	0	0
SAA2	0	0	0	0	0	0
SAA2-SAA4	0	0	0	0	0	0
SAA3P	0	0	0	0	0	0
SAA4	0	0	0	0	0	0
SAAL1	5,882643049	5,781359714	6,189824559	5,700439718	6,285402219	6,06608919
SAC3D1	5,129283017	5,129283017	5,357552005	2,321928095	2,321928095	0
SACM1L	7,888743249	7,906890596	7,577428828	8,471675214	8,118941073	8,129283017
SACS	7,721099189	7,531381461	7,459431619	6,375039431	6,942514505	6,491853096
SAE1	6,768184325	6,942514505	6,95419631	6,794415866	6,539158811	7,055282436
SAFB	7,960001932	8,388017285	8,290018847	9,047123912	9,049848549	9,25502857
SAFB2	9,008428622	9,027905997	9	9,649256178	9,560332834	9,667111542
SAG	0	0	0	3,321928095	2,321928095	3,169925001
SAGE1	0	0	0	0	0	0
SALL1	0	0	0	0	0	2
SALL2	3,807354922	4	3,584962501	1	2,321928095	0
SALL3	1	0	0	0	0	0
SALL4	2,807354922	2,321928095	3,807354922	2,807354922	4	4,64385619
SAMD1	7,076815597	7,64385619	7,312882955	7,129283017	7,22881869	6,491853096
SAMD10	3,321928095	3,807354922	2	0	0	0
SAMD11	0	0	0	0	0	0
SAMD12	3,321928095	3,700439718	4,169925001	4,857980995	4,64385619	5,554588852
SAMD13	2,321928095	0	1	0	0	0
SAMD14	0	0	0	0	0	3,807354922
SAMD15	1,584962501	0	0	0	0	0
SAMD3	8,30833903	8,113742166	8,060695932	8,022367813	8,276124405	7,46760555
SAMD4A	4	4,169925001	4,392317423	2,321928095	5,087462841	0
SAMD4B	6,87036472	6,882643049	7,366322214	7,321928095	7	7,375039431
SAMD5	0	0	1	0	3	3,169925001
SAMD7	0	0	0	0	2,321928095	4,64385619
SAMD8	5,392317423	5,672425342	5,426264755	5,523561956	5,285402219	5,554588852
SAMD9	8,607330314	8,603626345	8,607330314	8,357552005	8,447083226	8,348728154
SAMD9L	9,016808288	8,84862294	9,055282436	7,741466986	7,864186145	7,592457037
SAMHD1	10,23720996	10,30378075	10,35645197	8,851749041	8,794415866	8,744833837
SAMMS0	5,977279923	5,584962501	5,614709844	6,266786541	6,044394119	5,554588852
SAMSN1	9,724513853	9,625708843	9,625708843	9,37286506	9,440869168	9,475733431
SAP130	6,022367813	6,285402219	6,129283017	6,375039431	5,930737338	6,882643049
SAP18	8,744833837	8,804131021	8,764871591	9,312882955	9,353146825	9,364134655
SAP25	0	0	1,584962501	0	0	0
SAP30	6,807354922	6,584962501	6,426264755	4,087462841	5,554588852	3,169925001
SAP30BP	6,845490051	6,988684687	7,022367813	7,189824559	7,266786541	7,098032083
SAP30L	7,584962501	7,636624621	7,434628228	8,276124405	8,194756854	8,491853096
SAPCD1	0	0	0	0	0	0
SAPCD2	1,584962501	2,807354922	1,584962501	1	0	0
SAR1A	8,076815597	8,071462363	8,252665432	7,982993575	8,266786541	8,174925683
SAR1B	7,741466986	7,787902559	7,714245518	7,741466986	8,103287808	7,87036472
SARDH	0	1	0	0	0	0
SARM1	3,321928095	4,64385619	4,95419631	5,129283017	5,459431619	5,554588852
SARNP	5,247927513	4,906890596	5,491853096	6,22881869	6,584962501	6,820178962
SARS	7,276124405	7,321928095	7,303780748	7,614709844	7,50779464	7,539158811
SARS2	3,584962501	2,584962501	3,584962501	2,807354922	0	2
SART1	5,129283017	4,64385619	5	6,658211483	6,247927513	6,247927513
SART3	7,988684687	8,011227255	7,948367232	8,845490051	8,845490051	9,079484784
SASH1	5,554588852	5,857980995	5,426264755	4,321928095	3,321928095	2
SASH3	6,658211483	7,076815597	7,475733431	7,022367813	7,366322214	6,930737338
SASS6	5,95419631	5,357552005	5,584962501	5,832890014	5,977279923	4,95419631
SAT1	10,56319627	10,48884435	10,51076417	8,573647187	8,857980995	8,503825738
SAT2	6,491853096	6,50779464	6,599912842	5,930737338	6,321928095	5,357552005

SATB1	9,754887502	9,695228291	9,896332404	10,63117706	10,52160044	10,71938882
SATB2	0	1,584962501	1,584962501	0	1,584962501	0
SATL1	0	0	1	0	0	0
SAV1	6,409390936	6,539158811	6,50779464	6,321928095	6,129283017	6,247927513
SAYSD1	6,392317423	6,339850003	6,129283017	5,614709844	6,044394119	3,807354922
SBD5	7,820178962	7,665335917	7,62935662	7,426264755	7,62935662	7,832890014
SBDSP1	6,022367813	5,554588852	5,209453366	6	5,857980995	6,409390936
SBF1	7,392317423	7,531381461	7,754887502	7,813781191	8,022367813	7,46760555
SBF1P1	0	0	0	0	0	0
SBF2	6,87036472	6,599912842	6,754887502	6,700439718	6,658211483	7,055282436
SBK1	5,832890014	5,930737338	6,22881869	5,357552005	5,554588852	0
SBK2	0	0	0	0	0	0
SBNO1	9,154818109	9,144658243	8,971543554	9,301496195	9,204571144	9,434628228
SBNO2	7,357552005	7,592457037	7,845490051	7,531381461	7,721099189	7,832890014
SBSN	0	0	0	1	0	0
SCAF1	2,807354922	3,584962501	3,321928095	3,321928095	0	4,95419631
SCAF11	10,40407714	10,41151099	10,49085088	10,33315535	10,25384748	10,34983409
SCAF4	6,741466986	6,62935662	7	7,375039431	7,366322214	7,721099189
SCAF8	7,62935662	7,787902559	7,599912842	7,189824559	7,06608919	7,348728154
SCAI	5,392317423	5,087462841	5,523561956	5,754887502	5,285402219	5,554588852
SCAMP1	7,651051691	7,577428828	7,577428828	7,426264755	7,672425342	6,820178962
SCAMP2	8,968666793	9,252665432	8,982993575	8,033423002	8,299208018	7,539158811
SCAMP3	5,321928095	5,285402219	5,523561956	5,882643049	5,64385619	6,169925001
SCAMP4	5,247927513	5,357552005	6,044394119	4,321928095	5,169925001	3,169925001
SCAMP5	1,584962501	0	0	0	0	0
SCAND1	4,857980995	5	4,95419631	4,321928095	3,321928095	3,807354922
SCAP	5,832890014	6,14974712	5,882643049	6,129283017	6,50779464	6,247927513
SCAPER	7,599912842	7,768184325	8,124121312	8,184875343	7,912889336	8,238404739
SCARA3	0	0	0	0	0	0
SCARA5	0	0	0	2,321928095	3	3,807354922
SCARB1	3,807354922	3,807354922	4,087462841	1	2,321928095	0
SCARB2	8,550746785	8,761551232	8,784634846	6	5,977279923	5,554588852
SCARF1	5,285402219	5,64385619	5,169925001	3,807354922	2,321928095	3,169925001
SCARF2	0	0	0	0	0	0
SCARNA1	0	0	0	0	0	0
SCARNA10	2,584962501	0	1	5	4,807354922	2
SCARNA11	0	0	0	0	0	0
SCARNA12	0	0	0	0	0	0
SCARNA13	0	0	1	2,321928095	2,321928095	2
SCARNA14	0	0	0	0	0	0
SCARNA15	0	0	0	0	0	0
SCARNA17	0	0	0	0	0	0
SCARNA18	0	1	0	0	0	0
SCARNA2	0	0	0	0	0	0
SCARNA20	0	0	0	0	0	0
SCARNA21	6,044394119	6,14974712	5,95419631	8,710806434	8,252665432	8,724513853
SCARNA22	3,321928095	3,169925001	4	3,807354922	4,459431619	2
SCARNA23	0	0	0	0	0	0
SCARNA3	0	0	0	0	0	0
SCARNA4	0	0	0	0	0	0
SCARNA5	3,321928095	2,807354922	3,169925001	5	4,95419631	6,321928095
SCARNA6	0	0	0	0	0	0
SCARNA7	4,857980995	4,392317423	4,247927513	6,50779464	6,087462841	6,569855608
SCARNA8	0	0	0	0	0	0
SCARNA9	8,584962501	8,894817763	8,845490051	10,01680829	9,981567282	10,08081753
SCCPDH	5,672425342	5,977279923	5,807354922	4,857980995	5,087462841	2
SCD	5,832890014	6,266786541	5,554588852	0	4,459431619	2
SCD5	3,906890596	4,087462841	3,700439718	4,523561956	4,807354922	2

SCEL	0	0	0	0	0	0
SCFD1	7,8008999	7,971543554	7,912889336	7,499845887	7,400879436	7,942514505
SCFD2	2,807354922	4	4	0	3,321928095	2
SCG2	0	0	0	0	0	0
SCG3	1,584962501	0	0	0	0	0
SCG5	1	0	0	0	1,584962501	0
SCGB1A1	0	0	0	0	0	0
SCGB1B2P	0	0	0	0	0	0
SCGB1C1	0	0	0	0	0	0
SCGB1D1	0	0	0	0	0	0
SCGB1D2	0	0	0	0	0	0
SCGB1D4	0	0	0	0	0	0
SCGB2A1	0	0	0	0	0	0
SCGB2A2	2,321928095	0	2	2,321928095	1,584962501	3,807354922
SCGB2B2	0	0	0	0	0	0
SCGB2B3P	0	0	0	0	0	0
SCGB3A1	0	0	0	0	0	0
SCGB3A2	0	0	0	0	0	0
SCGN	0	0	0	0	0	0
SCHIP1	1	0	1	3,321928095	1,584962501	3,169925001
SCIMP	5,209453366	5,129283017	5,129283017	5	4,247927513	5,554588852
SCIN	1	2,321928095	1	0	3	3,169925001
SCLT1	7,515699838	7,257387843	7,383704292	7,876516947	7,599912842	7,592457037
SCLY	2,807354922	2,321928095	0	0	0	0
SCMH1	3,584962501	3,169925001	2,807354922	2,321928095	3	3,807354922
SCML1	6,108524457	6,14974712	6,392317423	6,768184325	6,459431619	7,409390936
SCML2	0	0	0	0	0	0
SCML4	6,539158811	6,459431619	6,95419631	7,491853096	7,209453366	7,375039431
SCN10A	0	0	0	0	0	2
SCN11A	2,584962501	2,321928095	3,169925001	5,700439718	4,95419631	6,930737338
SCN1A	2,584962501	3,700439718	3,169925001	6	5,977279923	6,820178962
SCN1B	1	1	1	4,087462841	1,584962501	5,169925001
SCN2A	2,321928095	3	3,700439718	4,857980995	5,087462841	4,95419631
SCN2B	0	0	0	6,321928095	5,64385619	6,930737338
SCN3A	4,321928095	4,523561956	4,700439718	5,247927513	6,044394119	7,247927513
SCN3B	1,584962501	0	1,584962501	1	2,321928095	3,807354922
SCN4A	0	0	0	2,807354922	0	3,807354922
SCN4B	0	0	0	4,087462841	3	4,321928095
SCN5A	0	0	0	0	0	0
SCN7A	0	0	0	0	0	2
SCN8A	1	1,584962501	2,584962501	2,807354922	0	4,64385619
SCN9A	2,321928095	2,584962501	2,584962501	0	2,321928095	3,807354922
SCNM1	6	5,930737338	5,807354922	6,189824559	6,375039431	5,832890014
SCNN1A	0	0	0	1	0	0
SCNN1B	0	0	0	0	0	0
SCNN1D	0	0	2,584962501	2,321928095	2,321928095	3,169925001
SCNN1G	0	0	0	0	0	0
SCO1	6,741466986	6,918863237	7	7,592457037	7,50779464	7,592457037
SCO2	0	0	0	0	0	0
SCOC	7,658211483	7,599912842	7,400879436	7,714245518	7,599912842	7,832890014
SCP2	8,707359132	8,693486957	8,438791853	8,531381461	8,233619677	8,348728154
SCPEP1	8,6794801	8,77478706	8,686500527	5,614709844	5,285402219	5,169925001
SCRG1	1	2,321928095	0	4,321928095	4,459431619	4,321928095
SCRIB	5,672425342	5,321928095	5,727920455	5,754887502	4,64385619	5,95419631
SCRN1	5,584962501	5,807354922	5,754887502	5,832890014	5,64385619	5,832890014
SCRN2	4,64385619	5	5,247927513	4,700439718	5,392317423	3,169925001
SCRN3	5,584962501	5,977279923	4,906890596	4,523561956	4,95419631	0
SCRT1	0	0	0	0	0	0

SCRT2	0	0	0	0	0	0
SCT	0	0	0	0	0	0
SCTR	0	0	0	0	0	0
SCUBE1	0	0	0	0	0	0
SCUBE2	1	0	0	3,321928095	1,584962501	3,169925001
SCUBE3	1,584962501	1	1,584962501	0	0	0
SCYL1	5,129283017	5,129283017	5,672425342	4,700439718	4,807354922	2
SCYL2	8,330916878	8,257387843	8,321928095	8,044394119	8,044394119	7,721099189
SCYL3	6,459431619	6,339850003	6,523561956	7,129283017	6,768184325	7,539158811
SDAD1	8	8,199672345	8,257387843	8,781359714	8,74819285	8,807354922
SDC1	0	0	0	0	1,584962501	3,807354922
SDC2	7,011227255	7,285402219	7,321928095	2,807354922	6,129283017	4,321928095
SDC3	4,754887502	5,087462841	4,459431619	0	0	0
SDC4	6,044394119	6,189824559	6,285402219	1	4,807354922	2
SDC4P	0	0	0	0	0	0
SDCBP	10,97513146	10,96794671	10,83051521	9,324180547	9,465566405	9,269126679
SDCBP2	2,807354922	2,321928095	1,584962501	5,832890014	5,285402219	4,95419631
SDCCAG8	7,238404739	7,098032083	7,348728154	7,409390936	7,491853096	7,491853096
SDF2	6,686500527	7,129283017	6,965784285	6,845490051	6,942514505	7,098032083
SDF2L1	6,475733431	6,599912842	7,159871337	2,807354922	5,554588852	3,169925001
SDF4	7,988684687	8,139551352	8,082149041	8,252665432	8,30833903	8,312882955
SDHA	7,139551352	7,14974712	6,781359714	7,321928095	7,17990909	7,169925001
SDHAF1	4,247927513	3,584962501	3,906890596	4,321928095	4,807354922	0
SDHAF2	6,247927513	6,375039431	6,807354922	6,554588852	6,375039431	6,700439718
SDHAP1	3,700439718	3,169925001	3	3,807354922	2,321928095	0
SDHAP2	0	0	0	0	0	0
SDHAP3	0	0	0	2,321928095	0	0
SDHB	7,948367232	8,022367813	7,977279923	7,303780748	7,523561956	7,787902559
SDHC	8,592457037	8,54303182	8,388017285	8,366322214	8,276124405	8,087462841
SDHD	6,554588852	6,169925001	6,658211483	6,06608919	5,554588852	6,491853096
SDK1	0	0	0	0	0	0
SDK2	6,303780748	6,686500527	6,426264755	7,491853096	7,554588852	6,169925001
SDR16C5	0	0	0	0	0	0
SDR39U1	5,930737338	6,539158811	6,044394119	6,321928095	6,768184325	5,357552005
SDR42E1	2,321928095	3	3,700439718	2,807354922	4,64385619	5,357552005
SDR9C7	0	0	0	1	0	0
SDS	2,807354922	1,584962501	2	0	0	0
SDSL	3,906890596	4,392317423	4,169925001	0	0	0
SEBOX	0	0	0	0	0	0
SEC11A	9,315149562	9,428360173	9,124121312	9,661778098	9,696967526	9,614709844
SEC11C	8,573647187	8,46760555	8,353146825	8,303780748	8,535275377	8,330916878
SEC13	7,523561956	7,781359714	7,741466986	6,658211483	6,700439718	7,129283017
SEC14L1	7,62935662	7,409390936	7,257387843	7,321928095	7,044394119	7,787902559
SEC14L2	2,584962501	2,584962501	0	0	0	0
SEC14L3	0	0	0	0	0	2
SEC14L4	1	0	0	2,321928095	3,321928095	4,321928095
SEC14L5	0	0	0	0	0	0
SEC14L6	0	0	0	0	0	0
SEC16A	6,977279923	7,169925001	6,95419631	7,14974712	7,044394119	7,442943496
SEC16B	0	0	0	0	0	0
SEC22A	5,209453366	5,321928095	4,754887502	5,459431619	5,459431619	5,169925001
SEC22B	6,686500527	6,807354922	7,087462841	6,50779464	6,459431619	6,62935662
SEC22C	7,06608919	6,988684687	6,918863237	7,303780748	7,17990909	7,011227255
SEC23A	8,071462363	7,982993575	7,665335917	7,577428828	7,74819285	7,741466986
SEC23B	7,882643049	8,049848549	7,700439718	7,409390936	7,475733431	7,442943496
SEC23IP	7,839203788	7,62935662	7,672425342	7,62935662	7,73470962	7,409390936
SEC24A	6,807354922	6,714245518	6,87036472	6,658211483	6,459431619	7,011227255
SEC24B	6,14974712	6	6,459431619	6,658211483	6,741466986	7,055282436

SEC24C	6,285402219	6,375039431	5,807354922	6,794415866	6,768184325	6,62935662
SEC24D	7,592457037	7,74819285	7,839203788	6,62935662	6,50779464	6,247927513
SEC31A	8,62935662	8,503825738	8,562242424	8,103287808	7,965784285	7,672425342
SEC31B	5,321928095	5,672425342	5,247927513	6,930737338	5,781359714	6,700439718
SEC61A1	7,54689446	7,813781191	7,900866808	7,375039431	7,658211483	7,491853096
SEC61A2	2,807354922	2,321928095	3,700439718	0	3	3,807354922
SEC61B	9,370687407	9,440869168	9,116343961	9,13442632	9,098032083	8,714245518
SEC61G	9,726218159	9,781359714	9,531381461	9,548821908	9,840777924	9,63481105
SEC62	10,21310422	10,14082977	10,12928302	10,30035256	10,40832974	10,46964182
SEC63	8,640244936	8,599912842	8,569855608	8,810571635	8,857980995	8,724513853
SECISBP2	7,8008999	7,491853096	7,693486957	7,693486957	7,523561956	7,46760555
SECISBP2L	8,511752654	8,503825738	8,640244936	8,479780264	8,392317423	8,636624621
SECTM1	7,357552005	7,17990909	7,820178962	3,321928095	4,247927513	5,357552005
SEH1L	6,339850003	6,266786541	6,392317423	5,357552005	4,459431619	3,807354922
SEL1L	9,098032083	9,095397023	9,124121312	8,924812504	8,924812504	8,95419631
SEL1L2	0	0	0	0	0	0
SEL1L3	7,918863237	7,95419631	7,781359714	8,049848549	8,515699838	7,491853096
SELE	0	0	0	0	0	0
SELENBP1	0	0	1	0	0	2
SELL	9,139551352	9,303780748	9,317412614	10,07547915	9,992938336	9,865733271
SELP	1	0	0	4,321928095	1,584962501	0
SELPLG	7,599912842	7,577428828	7	7,499845887	7,451211112	7,672425342
SEMA3A	3,321928095	3,807354922	3,906890596	5,459431619	5,285402219	5,357552005
SEMA3B	0	0	0	3,807354922	3,321928095	3,807354922
SEMA3C	6,022367813	5,044394119	4,95419631	4,523561956	4,95419631	5,169925001
SEMA3D	3,459431619	2,584962501	3,321928095	5,247927513	4,95419631	6,820178962
SEMA3E	2,321928095	0	0	3,807354922	3	3,169925001
SEMA3F	0	0	0	2,321928095	0	4,95419631
SEMA3G	1	2,584962501	1	2,807354922	3	5,554588852
SEMA4A	6,22881869	5,977279923	5,930737338	1	3	2
SEMA4B	4,64385619	4,857980995	4,95419631	3,807354922	4,807354922	4,95419631
SEMA4C	5,357552005	5,426264755	5,129283017	6	6,321928095	5,95419631
SEMA4D	9,17990909	9,317412614	9,136991112	9,411510988	9,262094845	9,197216693
SEMA4F	2,321928095	3	2	0	0	0
SEMA4G	0	0	0	0	2,321928095	0
SEMA5A	0	0	1,584962501	1	3	2
SEMA5B	0	0	0	0	0	2
SEMA6A	1,584962501	1	2	1	3,321928095	3,169925001
SEMA6B	5,247927513	5,169925001	4,95419631	0	0	0
SEMA6C	3	2,584962501	2	3,321928095	0	3,169925001
SEMA6D	1,584962501	1,584962501	0	4,321928095	3,700439718	5,700439718
SEMA7A	4	3,321928095	4,169925001	4,700439718	4,247927513	3,807354922
SEMG1	0	0	0	0	0	0
SEMG2	0	0	0	0	0	0
SENP1	6,686500527	6,459431619	6,50779464	7,209453366	7,400879436	7,539158811
SENP2	6,977279923	6,727920455	7,118941073	7,515699838	7,417852515	7,276124405
SENP3	5,321928095	5,321928095	5,95419631	5,523561956	5,554588852	6,247927513
SENP3-EIF4A1	0	0	0	0	0	0
SENP5	6,266786541	6,129283017	6,375039431	6,584962501	6,375039431	6,409390936
SENP6	8,781359714	8,87036472	8,636624621	9,324180547	9,038918989	9,419960178
SENP7	8,357552005	8,348728154	8,243173983	9,076815597	8,82336724	9,136991112
SENP8	3,321928095	2,321928095	1,584962501	3,321928095	1,584962501	2
SEPHS1	6,087462841	5,977279923	6,087462841	6,554588852	6,584962501	6,700439718
SEPHS2	8,038918989	7,857980995	8,027905997	7,64385619	7,948367232	8,189824559
SEPSECS	6,087462841	5,832890014	5,906890596	6,741466986	6,189824559	6,409390936
01-set	5,285402219	5,459431619	5,882643049	6,820178962	7,17990909	6,965784285
10-set	5,357552005	4,906890596	4,087462841	0	0	2
11-set	6,930737338	6,781359714	7,06608919	6,554588852	6,918863237	6,169925001

	12-set	0	0	0	0	0	0
	14-set	1	0	0	2,807354922	3	0
	02-set	8,832890014	8,651051691	8,614709844	8,696967526	8,447083226	8,77807713
	03-set	0	0	0	0	0	0
	04-set	1	3,169925001	2,584962501	4,857980995	0	4,321928095
	05-set	0	0	0	0	0	0
	06-set	9,586839788	9,667111542	9,824958741	9,651051691	9,717676423	9,548821908
	07-set	9,958552715	9,695228291	9,764871591	9,971543554	10,00982862	9,894817763
SEPT7P2		5,357552005	4,754887502	5,044394119	6,266786541	6,129283017	6,491853096
	08-set	4,584962501	4,321928095	4	2,807354922	4	2
	09-set	9,348728154	9,388017285	9,330916878	10,16364968	10,12153352	10,26091953
SERAC1		4,392317423	5,357552005	4,700439718	5,614709844	5,459431619	5,357552005
SERBP1		9,651051691	9,56414949	9,636624621	9,614709844	9,703903573	9,829722735
SERF1A		0	0	0	0	0	0
SERF1B		0	0	0	0	0	0
SERF2		9,700439718	9,828136484	9,535275377	9,082149041	9,20701432	9,033423002
SERGEF		4,584962501	3,906890596	4,64385619	5	4,807354922	4,321928095
SERHL		0	0	0	0	0	0
SERHL2		0	0	0	0	0	0
SERINC1		9,068778278	9,071462363	9,022367813	9,262094845	9,424166289	9,605479518
SERINC2		2,321928095	0	1,584962501	0	0	2
SERINC3		9,736401931	9,707359132	9,584962501	9,645658432	9,721099189	9,52160044
SERINC4		0	1	0	2,807354922	0	0
SERINC5		8,442943496	8,654636029	8,330916878	8,294620749	8,092757141	7,965784285
SERP1		9,710806434	9,77148947	9,594324604	9,68474862	9,850186838	9,667111542
SERP2		1	0	0	0	0	0
SERPINA1		4,754887502	4,523561956	4,95419631	0	1,584962501	0
SERPINA10		0	0	0	0	0	0
SERPINA11		0	0	0	0	0	0
SERPINA12		0	0	0	0	0	0
SERPINA3		0	0	0	0	0	0
SERPINA4		0	0	0	0	0	0
SERPINA5		0	0	0	0	0	0
SERPINA6		0	0	0	0	0	0
SERPINA7		0	0	0	0	0	0
SERPINA9		0	0	0	0	0	0
SERPINB1		7,8008999	8,011227255	7,592457037	7,076815597	7,366322214	6,569855608
SERPINB10		0	0	1,584962501	0	0	0
SERPINB11		0	0	0	0	0	0
SERPINB12		0	0	0	0	0	0
SERPINB13		1,584962501	0	3,584962501	4,321928095	4,95419631	5,95419631
SERPINB2		5,64385619	5,727920455	6,321928095	6,409390936	7,523561956	5,357552005
SERPINB3		0	0	0	0	0	0
SERPINB4		0	0	0	0	0	0
SERPINB5		0	0	0	0	0	2
SERPINB6		5,614709844	5,614709844	5,977279923	5,247927513	5,169925001	2
SERPINB7		0	0	0	0	0	0
SERPINB8		6,189824559	6,209453366	5,977279923	2,321928095	4,807354922	0
SERPINB9		8,016808288	8,321928095	8,214319121	8,174925683	8,044394119	7,813781191
SERPINC1		0	0	0	2,807354922	0	0
SERPIND1		0	0	0	0	0	0
SERPINE1		0	1,584962501	2	2,807354922	1,584962501	2
SERPINE2		2,584962501	3,700439718	3,700439718	2,807354922	3,700439718	0
SERPINE3		0	0	0	0	0	0
SERPINF1		4	4,95419631	4,247927513	1	0	0
SERPINF2		2,807354922	0	1	0	0	3,169925001
SERPING1		7,475733431	7,857980995	7,434628228	0	2,321928095	0
SERPINH1		4,754887502	5,087462841	4,906890596	4,087462841	4	4,64385619

SERPINI1	4,169925001	4,392317423	3,700439718	5,523561956	4,807354922	6,321928095
SERPINI2	0	0	0	0	0	0
SERTAD1	5,554588852	5,554588852	5,727920455	2,807354922	4,459431619	3,169925001
SERTAD2	7,06608919	6,807354922	7,108524457	7,098032083	6,832890014	6,491853096
SERTAD3	4,95419631	5,459431619	4,700439718	2,807354922	3,700439718	3,169925001
SERTAD4	3,807354922	2,807354922	1	6,129283017	6,044394119	6,491853096
SERTM1	0	0	0	0	0	0
SESN1	6,658211483	6,569855608	6,768184325	7,554588852	7,807354922	7,276124405
SESN2	6	6,475733431	6,714245518	6,22881869	6,584962501	6,569855608
SESN3	9,221587121	9,144658243	9,303780748	10,00140819	9,960001932	10,02652344
SESTD1	6,539158811	6,614709844	6,700439718	6,266786541	6,189824559	6,754887502
SET	9,717676423	9,558420713	9,558420713	9,840777924	9,862637358	9,927777962
SETBP1	5,614709844	5,584962501	5,321928095	6	6,459431619	6,882643049
SETD1A	5,321928095	5,882643049	6,321928095	6,266786541	6,247927513	6,06608919
SETD1B	8,033423002	8,21916852	8,45532722	8,714245518	8,599912842	8,636624621
SETD2	8,876516947	8,703903573	8,717676423	9,245552706	9,071462363	9,355351096
SETD3	7,592457037	7,417852515	7,312882955	7,266786541	7,108524457	7,741466986
SETD4	5,169925001	5	5	5,247927513	3,700439718	5,169925001
SETD5	9,33315535	9,390168956	9,527477006	10,23481743	9,99859043	10,29576893
SETD6	4,906890596	4,754887502	5	5,459431619	5,554588852	4,95419631
SETD7	6,569855608	6,614709844	6,584962501	6,266786541	6,700439718	6,321928095
SETD9	4,392317423	4,169925001	3,700439718	2,321928095	2,321928095	3,169925001
SETDB1	5,906890596	6,169925001	6	6,375039431	5,781359714	5,700439718
SETDB2	7,577428828	7,483815777	7,483815777	7,303780748	7,17990909	7,64385619
SETMAR	0	2,807354922	2,584962501	0	3	2
SETX	10,11243951	9,674192268	9,949826711	9,411510988	9,440869168	9,144658243
SEZ6	0	1	0	5,247927513	4,459431619	5,700439718
SEZ6L	1,584962501	0	0	1	0	0
SEZ6L2	0	0	0	2,321928095	0	3,169925001
SF1	9,381542951	9,424166289	9,495855027	9,938109326	9,840777924	9,891783703
SF3A1	9,025139562	9,240791332	9,147204925	9,147204925	9,451211112	8,939579214
SF3A2	3,700439718	4	4,087462841	3,807354922	4,95419631	5,357552005
SF3A3	7,451211112	7,475733431	7,209453366	7,794415866	7,807354922	7,515699838
SF3B1	10,12282799	9,859534786	9,985841937	10,61194694	10,29576893	10,52552081
SF3B2	8,87958325	8,810571635	8,912889336	9,556506055	9,330916878	9,400879436
SF3B3	6,794415866	6,882643049	7,491853096	7,693486957	7,599912842	7,700439718
SF3B4	5,584962501	5,321928095	5,044394119	5,754887502	5,727920455	5,95419631
SF3B5	8,451211112	8,768184325	8,861086906	8,303780748	8,651051691	8,400879436
SF11	5,491853096	5,727920455	5,95419631	6,409390936	5,64385619	5,357552005
SFMBT1	6,22881869	6,266786541	6,599912842	7,209453366	7	7,348728154
SFMBT2	6,686500527	6,554588852	6,129283017	7,554588852	7,451211112	7,442943496
SFN	0	0	0	2,807354922	0	3,169925001
SFPQ	9,964340868	10,01262454	9,917372079	10,55074679	10,41890673	10,6183855
SFR1	4,459431619	4,321928095	4,754887502	4,087462841	4,247927513	2
SFRP1	0	0	0	0	1,584962501	0
SFRP2	0	0	0	0	0	0
SFRP4	2,584962501	0	1	4,087462841	4,64385619	5,700439718
SFRP5	0	0	1	0	0	0
SFSWAP	8,247927513	8,233619677	8,396604781	8,994353437	8,784634846	9,126704473
SFT2D1	6,930737338	6,977279923	6,714245518	6,06608919	5,977279923	5,700439718
SFT2D2	8,77807713	8,654636029	8,569855608	7,876516947	7,924812504	8,108524457
SFT2D3	5,781359714	5,459431619	5,781359714	5,882643049	5,857980995	5,554588852
SFTA1P	0	0	0	0	0	0
SFTA2	0	0	0	0	0	0
SFTA3	0	0	0	0	1,584962501	0
SFTPA1	0	0	0	0	0	0
SFTPA2	0	0	0	0	0	0
SFTPB	0	0	0	0	1,584962501	0

SFTPC	0	0	0	0	0	0
SFTPD	0	0	0	0	0	0
SFXN1	7,383704292	7,491853096	7,312882955	8,413627929	8,21916852	8,531381461
SFXN2	3,321928095	3,700439718	4	5,129283017	4,64385619	2
SFXN3	5,209453366	5,584962501	5,554588852	6,06608919	5,459431619	3,169925001
SFXN4	5,426264755	5,285402219	5,392317423	3,807354922	4,459431619	3,169925001
SFXN5	3,906890596	3,321928095	4,64385619	3,321928095	3,321928095	3,169925001
SGCA	0	0	0	0	0	0
SGCB	4,321928095	3,321928095	4	4,321928095	4	0
SGCD	4	4,087462841	4,459431619	5,930737338	5,64385619	6,754887502
SGCE	2,807354922	2,321928095	1,584962501	2,807354922	2,321928095	3,807354922
SGCG	0	0	0	0	0	0
SGCZ	0	0	0	0	0	0
SGIP1	1	2,584962501	1,584962501	4,087462841	4,247927513	5,357552005
SGK1	8,810571635	8,86727874	8,566054038	5,930737338	5,169925001	5,832890014
SGK2	0	0	0	1	0	2
SGK3	7,741466986	7,539158811	7,321928095	6,409390936	6,189824559	7,348728154
SGMS1	7,348728154	7,285402219	7,392317423	6,95419631	7,044394119	6,965784285
SGMS2	5,169925001	4,95419631	4,584962501	0	1,584962501	0
SGPL1	6,714245518	7,098032083	7,06608919	5,614709844	6,409390936	5,832890014
SGPP1	7,357552005	7,459431619	7,409390936	7,169925001	7,139551352	6,965784285
SGPP2	2,321928095	2,321928095	2	0	1,584962501	0
SGSH	4,95419631	4,857980995	5,247927513	2,321928095	5,285402219	0
SGSM1	3,321928095	2,584962501	2,807354922	0	0	0
SGSM2	6,426264755	6,686500527	6,965784285	6,820178962	7,17990909	6,930737338
SGSM3	4,857980995	4,64385619	4,906890596	5	5,087462841	4,95419631
SGTA	6	6,357552005	6,882643049	6,882643049	6,857980995	6,882643049
SGTB	7,209453366	7,06608919	6,741466986	7,247927513	7,209453366	7,209453366
SH2B1	7,781359714	8,092757141	8,396604781	8,682994584	8,45532722	8,348728154
SH2B2	3,321928095	3,169925001	3,321928095	2,321928095	0	0
SH2B3	7,375039431	7,129283017	7,209453366	5,523561956	6,087462841	5,700439718
SH2D1A	8,353146825	8,17990909	7,994353437	9,011227255	9,240791332	8,939579214
SH2D1B	6,672425342	6,554588852	6,781359714	7,515699838	7,721099189	7,46760555
SH2D2A	6,475733431	7	6,599912842	6,459431619	7,475733431	5,832890014
SH2D3A	3,584962501	3,700439718	4	3,807354922	4	5,169925001
SH2D3C	5,285402219	5,285402219	5,491853096	5,832890014	5,64385619	5,700439718
SH2D4A	0	0	0	0	0	0
SH2D4B	0	0	0	2,807354922	0	4,95419631
SH2D5	0	0	0	0	0	0
SH2D6	0	0	0	0	0	0
SH2D7	0	0	0	0	0	0
SH3BGR	0	0	0	0	0	0
SH3BGRL	8,945443836	8,888743249	8,988684687	8,303780748	8,339850003	7,832890014
SH3BGRL2	3,700439718	2,584962501	2,807354922	4,087462841	3,321928095	4,95419631
SH3BGRL3	8,731319031	8,6794801	8,625708843	7,475733431	7,584962501	7,409390936
SH3BP1	7,022367813	6,832890014	7,247927513	6,321928095	6,375039431	5,700439718
SH3BP2	6,882643049	6,807354922	7,06608919	5,523561956	5,392317423	5,169925001
SH3BP4	3,321928095	3,807354922	3,321928095	0	0	0
SH3BP5	8,686500527	8,700439718	8,640244936	8,13442632	8,515699838	8,238404739
SH3BP5L	4,392317423	3,584962501	3,906890596	5,129283017	5,087462841	3,169925001
SH3D19	0	1	0	0	0	2
SH3D21	1,584962501	2,584962501	0	0	2,321928095	0
SH3GL1	6,426264755	6,357552005	6,459431619	5,357552005	5,781359714	5,169925001
SH3GL1P1	0	0	0	0	0	0
SH3GL1P2	0	0	0	0	0	0
SH3GL2	0	0	0	0	0	0
SH3GL3	0	0	0	0	0	0
SH3GLB1	8,550746785	8,50779464	8,375039431	8,710806434	8,74819285	8,927777962

SH3GLB2	5	5,781359714	5,727920455	4,321928095	5,169925001	4,64385619
SH3KBP1	9,638435914	9,552669098	9,46760555	9,710806434	9,781359714	9,647458426
SH3PXD2A	5,491853096	6,044394119	6,22881869	7,339850003	6,807354922	7,787902559
SH3PXD2B	4	3,906890596	4,087462841	0	2,321928095	0
SH3RF1	4,321928095	3,321928095	4,392317423	0	1,584962501	0
SH3RF2	0	0	0	0	0	3,169925001
SH3RF3	1,584962501	2,321928095	1,584962501	3,807354922	4,459431619	4,64385619
SH3TC1	5,64385619	6,087462841	5,727920455	5,247927513	5,459431619	4,321928095
SH3TC2	1	1,584962501	0	4,700439718	3	0
SH3YL1	6,539158811	6,339850003	6,266786541	7,426264755	7,159871337	7,129283017
SHANK1	0	0	0	0	0	0
SHANK2	0	1,584962501	0	1	1,584962501	4,64385619
SHANK3	0	0	0	0	0	0
SHARPIN	4,392317423	3,807354922	4,087462841	4,087462841	3,321928095	2
SHB	4,523561956	4,857980995	4,459431619	0	0	0
SHBG	0	0	0	0	0	0
SHC1	6,266786541	6,50779464	6,584962501	5,700439718	6,129283017	5,700439718
SHC2	0	1,584962501	1,584962501	1	0	0
SHC3	0	1,584962501	0	3,807354922	2,321928095	4,95419631
SHC4	0	0	0	2,807354922	3	4,95419631
SHCBP1	1	3	2,807354922	4,700439718	4,459431619	4,95419631
SHCBP1L	0	0	0	0	0	0
SHD	0	0	1	0	0	0
SHE	0	0	0	0	2,321928095	2
SHF	0	1,584962501	1,584962501	3,807354922	1,584962501	2
SHH	0	0	0	0	0	0
SHISA2	1	1	1,584962501	2,807354922	1,584962501	0
SHISA3	0	2,321928095	0	0	2,321928095	0
SHISA4	0	0	0	0	0	0
SHISA5	8,28077077	8,527477006	8,599912842	8,636624621	8,693486957	8,503825738
SHISA6	0	0	0	0	0	0
SHISA7	0	0	0	0	0	0
SHISA8	0	1	0	0	0	0
SHISA9	0	0	0	0	0	0
SHKBP1	6,044394119	6,14974712	6,22881869	5	4,95419631	2
SHMT1	4	3,700439718	3,584962501	0	2,321928095	0
SHMT2	5,727920455	5,882643049	5,614709844	6,321928095	6,247927513	5,832890014
SHOC2	8,535275377	8,554588852	8,238404739	8,312882955	8,599912842	8,647458426
SHOX	1	1	2,807354922	4,087462841	1,584962501	3,169925001
SHOX2	1	2,584962501	1	0	2,321928095	0
SHPK	1,584962501	2,321928095	2,584962501	0	0	3,169925001
SHPRH	7,651051691	7,672425342	7,900866808	7,851749041	7,820178962	8,400879436
SHQ1	5,584962501	6	5,882643049	5,882643049	5,554588852	2
SHROOM1	1,584962501	2,321928095	1	0	0	0
SHROOM2	0	0	0	0	0	0
SHROOM3	1	1	1	4,700439718	3	4,64385619
SHROOM4	0	0	0	0	0	2
SI	0	0	1,584962501	0	0	0
SIAE	2,807354922	3	3,584962501	4,087462841	2,321928095	3,807354922
SIAH1	5,129283017	5,247927513	5,129283017	5,700439718	5,285402219	5,169925001
SIAH2	7,129283017	7,238404739	6,942514505	7,022367813	7,108524457	7,491853096
SIAH3	0	0	0	0	0	0
SIDT1	4,247927513	3,700439718	4,169925001	5	5,087462841	4,321928095
SIDT2	6,741466986	7,14974712	6,754887502	5,882643049	5,781359714	5,357552005
SIGIRR	6,022367813	5,857980995	5,95419631	6,129283017	5,554588852	6,06608919
SIGLEC1	3,906890596	4,459431619	4,087462841	0	0	0
SIGLEC10	4,247927513	4	3,169925001	2,807354922	0	0
SIGLEC11	0	0	0	2,807354922	1,584962501	3,169925001

SIGLEC12	2,807354922	2,584962501	2,807354922	0	2,321928095	3,807354922
SIGLEC14	4,857980995	4,857980995	4,392317423	0	0	0
SIGLEC15	3,700439718	0	1,584962501	1	3,321928095	3,169925001
SIGLEC16	3	2,321928095	2	0	0	0
SIGLEC5	3	3	3,906890596	0	0	0
SIGLEC6	0	0	0	0	0	0
SIGLEC7	4,64385619	5,357552005	4,523561956	4,321928095	4,459431619	5,554588852
SIGLEC8	0	0	0	0	0	0
SIGLEC9	5,554588852	5,727920455	5,044394119	0	0	3,807354922
SIGMAR1	4,584962501	3,700439718	4,64385619	1	3,321928095	3,807354922
SIK1	0	0	0	0	0	0
SIK2	6,266786541	6,266786541	6,169925001	6,266786541	6,285402219	6,247927513
SIK3	7,129283017	6,727920455	7,033423002	7,022367813	7,247927513	7,129283017
SIKE1	7,417852515	7,54689446	7,693486957	7,459431619	7,383704292	7,169925001
SIL1	5,672425342	5,672425342	5,554588852	4,087462841	4,247927513	4,64385619
SIM1	1	0	0	0	0	2
SIM2	0	0	0	0	1,584962501	2
SIN3A	7,693486957	7,807354922	7,754887502	8,252665432	7,982993575	8,21916852
SIN3B	6,087462841	6,475733431	6,247927513	6,845490051	6,539158811	6,247927513
SIPA1	5,906890596	5,64385619	5,857980995	5,129283017	5,392317423	4,95419631
SIPA1L1	6,754887502	6,845490051	6,569855608	7,531381461	7,366322214	7,348728154
SIPA1L2	6,14974712	6,392317423	6,189824559	5,459431619	5,857980995	5,832890014
SIPA1L3	5,584962501	6,044394119	5,977279923	6,129283017	5,977279923	5,95419631
SIRPA	9,105908509	9,396604781	9,465566405	5,614709844	6,375039431	5,95419631
SIRPB1	5,781359714	5,882643049	6	0	0	2
SIRPB2	2,807354922	1,584962501	0	0	0	0
SIRPD	0	0	0	0	0	0
SIRPG	4	4,169925001	4,459431619	3,807354922	0	2
SIRT1	7,820178962	7,857980995	7,8008999	7,554588852	7,832890014	7,515699838
SIRT2	5,321928095	5,672425342	4,95419631	3,807354922	4,807354922	3,807354922
SIRT3	4,169925001	4,392317423	4,523561956	4,523561956	4,95419631	0
SIRT4	2,807354922	2,807354922	1	3,321928095	0	0
SIRT5	6,129283017	6,22881869	6,491853096	7,022367813	6,807354922	6,06608919
SIRT6	4,321928095	4,584962501	4,857980995	2,807354922	4,459431619	4,321928095
SIRT7	7,033423002	7,033423002	7,303780748	6,882643049	7,139551352	6,409390936
SIT1	6,539158811	6,357552005	6,392317423	6,62935662	7,087462841	6,930737338
SIVA1	7,169925001	7,459431619	7,672425342	7,864186145	7,888743249	7,894817763
SIX1	1	0	2	1	3,700439718	3,169925001
SIX2	0	0	0	0	0	0
SIX3	0	1	0	0	3	4,321928095
SIX4	0	0	0	0	0	0
SIX5	0	1	2	2,807354922	1,584962501	2
SIX6	0	0	0	0	0	0
SKA1	0	1	0	0	0	0
SKA2	6,285402219	6,409390936	6,129283017	5,882643049	5,857980995	4,95419631
SKA3	2,584962501	1,584962501	2,584962501	1	1,584962501	0
SKAP1	7,483815777	7,483815777	7,54689446	8,13442632	8,209453366	8,06608919
SKAP2	9,285402219	9,233619677	9,038918989	8,224001674	8,011227255	8,204571144
SKI	8,044394119	8,14974712	8,21916852	8,033423002	8,044394119	8,049848549
SKIL	8,854868383	8,6794801	8,758223215	8,113742166	8,033423002	8,491853096
SKIV2L	5,906890596	5,523561956	5,523561956	6,554588852	6,807354922	5,357552005
SKOR1	0	0	0	2,807354922	0	2
SKP1	8,882643049	9,060695932	9,011227255	9,002815016	9,084808388	8,603626345
SKP2	5,426264755	5,321928095	5,357552005	6,266786541	5,857980995	5,700439718
SLA	8,17990909	8,011227255	8,276124405	9,063395081	9,06608919	8,95419631
SLA2	6,50779464	6,686500527	6,700439718	5,930737338	6,832890014	5,357552005
SLAIN1	5,285402219	5	5,426264755	6,189824559	5,459431619	6,569855608
SLAIN2	8,647458426	8,581200582	8,577428828	8,607330314	8,693486957	8,807354922

SLAMF1	6,044394119	6,06608919	6,475733431	7,491853096	7,451211112	6,965784285
SLAMF6	5,977279923	6,50779464	6,169925001	6,409390936	6,129283017	6,321928095
SLAMF7	9,74819285	9,654636029	9,674192268	7,515699838	8,022367813	7,515699838
SLAMF8	7,189824559	7,515699838	7,614709844	2,321928095	0	2
SLAMF9	0	0	0	0	0	0
SLBP	7,813781191	7,754887502	7,434628228	7,592457037	7,523561956	7,409390936
SLC10A1	0	0	0	0	0	0
SLC10A2	0	0	0	0	0	0
SLC10A3	3,906890596	5,247927513	4,857980995	3,321928095	4,64385619	0
SLC10A4	0	1	0	0	0	0
SLC10A5	0	0	1	1	0	2
SLC10A6	0	0	0	0	0	0
SLC10A7	5,357552005	5,807354922	5,426264755	4,700439718	4,95419631	5,700439718
SLC11A1	4,321928095	4,64385619	4,906890596	3,807354922	4,459431619	3,169925001
SLC11A2	7,339850003	7,266786541	7,64385619	5,754887502	6,50779464	6,409390936
SLC12A1	0	0	0	0	3,321928095	3,807354922
SLC12A2	7,169925001	7,076815597	7,055282436	7,22881869	7,321928095	7,247927513
SLC12A3	0	1	0	0	0	0
SLC12A4	3,584962501	3,584962501	3,584962501	0	2,321928095	2
SLC12A5	0	0	0	0	0	0
SLC12A6	7,754887502	7,651051691	7,383704292	8,13442632	8,174925683	8,016808288
SLC12A7	6,50779464	6,442943496	6,475733431	6,820178962	6,700439718	6,700439718
SLC12A8	0	1	1	0	1,584962501	3,169925001
SLC12A9	5,491853096	5,727920455	5,584962501	5,357552005	5,64385619	4,321928095
SLC13A1	3,700439718	3,321928095	2,584962501	5,129283017	4	5,357552005
SLC13A2	0	0	0	0	0	0
SLC13A3	0	0	0	5,247927513	3	6,169925001
SLC13A4	0	0	0	0	0	0
SLC13A5	0	0	0	0	0	2
SLC14A1	3	3,321928095	3	3,807354922	4,247927513	3,807354922
SLC14A2	1	0	0	0	2,321928095	3,169925001
SLC15A1	0	0	0	0	1,584962501	3,169925001
SLC15A2	3,459431619	3,906890596	3,700439718	4,087462841	3	3,807354922
SLC15A3	7,781359714	7,876516947	7,851749041	3,807354922	4,807354922	3,807354922
SLC15A4	8,243173983	8,082149041	7,912889336	7,930737338	7,900866808	7,942514505
SLC15A5	0	0	1	0	0	0
SLC16A1	6,375039431	6,686500527	6,491853096	6,266786541	6,50779464	6,247927513
SLC16A10	4,523561956	4,459431619	4,584962501	5,523561956	5,857980995	6,06608919
SLC16A11	1	0	0	0	0	0
SLC16A12	0	0	0	0	0	0
SLC16A13	0	0	0	0	0	0
SLC16A14	1	0	0	0	0	0
SLC16A2	0	0	0	0	0	0
SLC16A3	6,977279923	7,14974712	7,515699838	2,321928095	5,459431619	0
SLC16A4	2,321928095	1	2	5,357552005	4,807354922	6,169925001
SLC16A5	3,321928095	3,169925001	3,169925001	0	0	0
SLC16A6	7,348728154	7,312882955	7,22881869	6,189824559	6,044394119	6,754887502
SLC16A7	7,483815777	7,285402219	7,303780748	7,459431619	7,539158811	7,700439718
SLC16A8	0	0	0	0	0	0
SLC16A9	1,584962501	1	0	0	1,584962501	3,807354922
SLC17A1	1,584962501	1	0	1	0	0
SLC17A2	0	0	0	0	0	0
SLC17A3	0	0	0	1	0	0
SLC17A4	0	2,321928095	0	1	1,584962501	4,64385619
SLC17A5	6,044394119	5,882643049	5,95419631	5,832890014	4,64385619	4,321928095
SLC17A6	2,584962501	1,584962501	2,584962501	3,321928095	0	4,321928095
SLC17A7	0	0	0	1	0	3,169925001
SLC17A8	0	0	0	0	0	3,169925001

SLC17A9	4,169925001	4,087462841	4,392317423	3,807354922	1,584962501	3,169925001
SLC18A1	1	0	0	0	0	2
SLC18A2	3,321928095	1,584962501	2	0	0	0
SLC18A3	0	0	0	0	0	0
SLC19A1	3,807354922	3,906890596	3,584962501	1	2,321928095	0
SLC19A2	3,321928095	3,584962501	3,807354922	1	0	0
SLC19A3	0	0	0	0	0	0
SLC1A1	0	0	0	0	0	0
SLC1A2	2,584962501	0	3	4,857980995	2,321928095	3,807354922
SLC1A3	6,303780748	6,14974712	6,22881869	2,807354922	2,321928095	4,64385619
SLC1A4	5,906890596	5,857980995	5,754887502	7,076815597	6,741466986	6,930737338
SLC1A5	6,672425342	6,686500527	6,820178962	3,321928095	4,95419631	3,169925001
SLC1A6	0	0	0	2,321928095	2,321928095	0
SLC1A7	0	1	1,584962501	0	0	0
SLC20A1	8,727920455	8,721099189	8,939579214	8,383704292	8,071462363	8,392317423
SLC20A2	5,906890596	5,584962501	5,523561956	6,794415866	6,189824559	7,276124405
SLC22A1	2,321928095	0	1,584962501	3,321928095	2,321928095	3,169925001
SLC22A10	0	0	0	0	0	0
SLC22A11	0	0	0	0	0	2
SLC22A12	0	0	0	0	0	0
SLC22A13	0	0	0	1	0	0
SLC22A14	0	0	0	1	3	3,807354922
SLC22A15	5,392317423	5,781359714	5,321928095	2,321928095	3,321928095	0
SLC22A16	2,321928095	1	1,584962501	0	0	0
SLC22A17	1	1	0	0	0	0
SLC22A18	3,807354922	3,700439718	4,459431619	0	1,584962501	2
SLC22A18AS	1,584962501	0	0	4,087462841	3,321928095	3,807354922
SLC22A2	0	0	1,584962501	0	3,321928095	0
SLC22A23	3,906890596	3,807354922	3,700439718	4,321928095	4,64385619	4,95419631
SLC22A24	0	0	0	1	0	0
SLC22A25	0	0	0	0	0	2
SLC22A3	0	0	0	0	0	3,169925001
SLC22A31	0	0	0	0	0	0
SLC22A4	1,584962501	2,321928095	1	0	0	0
SLC22A5	4,906890596	4,584962501	4,523561956	3,807354922	4,807354922	3,169925001
SLC22A6	0	0	0	0	0	0
SLC22A7	0	0	0	0	0	0
SLC22A8	0	0	0	0	0	0
SLC22A9	0	0	0	0	0	0
SLC23A1	0	0	0	2,321928095	1,584962501	0
SLC23A2	8,103287808	8,238404739	8,044394119	7,129283017	7,159871337	7,055282436
SLC23A3	0	0	2	1	2,321928095	0
SLC24A1	3,807354922	3,807354922	4,169925001	4,087462841	3,700439718	4,95419631
SLC24A2	0	0	0	1	0	0
SLC24A3	2,584962501	1,584962501	3	2,321928095	1,584962501	2
SLC24A4	2,807354922	2,807354922	2	1	0	2
SLC24A5	1	1	1	0	3	2
SLC25A1	4,321928095	3,906890596	4,087462841	1	3,321928095	0
SLC25A10	0	0	0	0	0	0
SLC25A11	6,375039431	6,339850003	6,491853096	3,807354922	5,392317423	3,807354922
SLC25A12	4,906890596	4,321928095	4,392317423	5,247927513	4,459431619	5,169925001
SLC25A13	5,523561956	5,672425342	5,459431619	4,857980995	4,459431619	4,321928095
SLC25A14	5,357552005	5,426264755	5	4,857980995	5,977279923	4,64385619
SLC25A15	4,95419631	5,129283017	4	5	4,807354922	4,64385619
SLC25A16	5,392317423	5,044394119	5,426264755	5,129283017	4,64385619	5,832890014
SLC25A17	4,700439718	5,169925001	5	3,321928095	5,459431619	4,64385619
SLC25A18	0	0	0	0	0	0
SLC25A19	5,392317423	5,727920455	5,357552005	2,807354922	2,321928095	4,321928095

SLC25A2	0	0	0	0	0	0
SLC25A20	5,906890596	5,584962501	5,321928095	5,523561956	5,459431619	3,169925001
SLC25A21	0	0	0	0	0	0
SLC25A22	4	3,906890596	4,247927513	2,807354922	1,584962501	3,169925001
SLC25A23	1,584962501	2,807354922	3	2,321928095	3,321928095	3,169925001
SLC25A24	8,339850003	8,45532722	8,30833903	6,321928095	6,857980995	5,95419631
SLC25A25	5,357552005	5,169925001	5,044394119	4,523561956	3,700439718	5,169925001
SLC25A26	5,614709844	6,129283017	6,266786541	6,22881869	6,459431619	6,409390936
SLC25A27	1	0	1	0	0	0
SLC25A28	5,95419631	6,14974712	6	6,321928095	5,977279923	4,95419631
SLC25A29	4,584962501	5,321928095	4,584962501	3,807354922	1,584962501	3,807354922
SLC25A3	9,294620749	9,204571144	9,11113567	9,342074668	9,415741768	9,339850003
SLC25A30	6,392317423	6,392317423	6,044394119	5,754887502	5,554588852	5,832890014
SLC25A31	0	0	0	0	0	0
SLC25A32	4,584962501	4,169925001	4,64385619	3,807354922	4,807354922	4,321928095
SLC25A33	5	5,129283017	4,906890596	5,754887502	5,169925001	4,64385619
SLC25A34	0	1,584962501	1	3,321928095	1,584962501	2
SLC25A35	2,584962501	2,321928095	0	0	0	0
SLC25A36	8,113742166	8,344295908	8,266786541	8,797661526	8,77148947	8,826548487
SLC25A37	7,483815777	7,14974712	7,577428828	6,794415866	7	7,562242424
SLC25A38	5,64385619	5,95419631	6,087462841	6,906890596	6,807354922	6,169925001
SLC25A39	5,357552005	5,087462841	5,491853096	5,523561956	5,285402219	5,554588852
SLC25A4	3,459431619	3,321928095	3,169925001	2,321928095	3	0
SLC25A40	7,451211112	6,930737338	6,95419631	6,22881869	6,189824559	5,95419631
SLC25A41	0	0	0	0	0	0
SLC25A42	6,22881869	6,442943496	6,672425342	7,475733431	7,108524457	7,562242424
SLC25A43	5,285402219	5,129283017	5,700439718	2,321928095	3	0
SLC25A44	6,882643049	6,686500527	6,554588852	7,098032083	6,918863237	7,011227255
SLC25A45	4,321928095	5,044394119	5,169925001	4,857980995	5,554588852	5,169925001
SLC25A46	7,882643049	7,936637939	7,77478706	8,103287808	8,092757141	8,189824559
SLC25A47	0	0	0	0	0	0
SLC25A48	0	0	0	0	0	0
SLC25A5	8,942514505	8,930737338	8,607330314	8,233619677	8,405141463	8,129283017
SLC25A5-AS1	3,906890596	3,700439718	3,700439718	5,700439718	5,285402219	5,700439718
SLC25A6	9,033423002	9,095397023	9,14974712	8,994353437	9,14974712	8,797661526
SLC26A1	0	0	0	0	0	0
SLC26A10	0	0	0	0	0	0
SLC26A11	7,276124405	7,247927513	6,988684687	6,658211483	6,882643049	6,321928095
SLC26A2	7,672425342	7,62935662	7,577428828	6,459431619	7,044394119	6,321928095
SLC26A3	0	0	0	1	1,584962501	0
SLC26A4	1,584962501	0	0	2,321928095	4,459431619	5,832890014
SLC26A5	0	0	0	1	2,321928095	2
SLC26A6	4	5	5,209453366	2,321928095	3	2
SLC26A7	1,584962501	0	2,584962501	5,459431619	5,087462841	5,554588852
SLC26A8	1	0	0	0	2,321928095	0
SLC26A9	0	0	0	0	0	0
SLC27A1	4	3,700439718	3,807354922	2,321928095	3,321928095	4,64385619
SLC27A2	1	0	2	1	3	0
SLC27A3	6,845490051	7,14974712	7,14974712	5,357552005	4,807354922	4,64385619
SLC27A4	3,906890596	4,584962501	4,64385619	2,321928095	0	0
SLC27A5	1,584962501	2,584962501	2,584962501	2,321928095	2,321928095	0
SLC27A6	0	0	0	0	0	0
SLC28A1	0	0	0	3,321928095	0	0
SLC28A2	0	0	0	0	0	0
SLC28A3	1	0	1	0	0	0
SLC29A1	3,584962501	2,807354922	3,321928095	0	0	0
SLC29A2	2,321928095	3,169925001	2,584962501	2,807354922	0	0
SLC29A3	5	5,727920455	5,209453366	1	3,321928095	0

SLC29A4	0	0	0	0	0	0
SLC2A1	6,614709844	6,22881869	6,614709844	7,169925001	7,321928095	6,62935662
SLC2A10	0	0	1	0	0	0
SLC2A11	4,169925001	4,64385619	4,087462841	5,700439718	4,95419631	4,64385619
SLC2A12	0	1	0	0	0	0
SLC2A13	6,409390936	6,108524457	5,700439718	5,357552005	5,392317423	4,321928095
SLC2A14	1	0	0	3,321928095	2,321928095	5,169925001
SLC2A2	0	0	0	1	1,584962501	0
SLC2A3	9,588714636	9,83447105	9,840777924	9,20701432	9,754887502	9,131856961
SLC2A4	0	0	0	0	0	0
SLC2A4RG	6,906890596	6,807354922	7,14974712	6,554588852	6,614709844	5,95419631
SLC2A5	3,584962501	2,584962501	2,584962501	0	0	0
SLC2A6	3,807354922	4,700439718	4	1	3	3,807354922
SLC2A7	0	0	0	0	0	0
SLC2A8	4,321928095	4,459431619	5	0	2,321928095	0
SLC2A9	2,807354922	2,584962501	2,807354922	4,087462841	1,584962501	0
SLC30A1	7,936637939	7,994353437	8	6,50779464	6,700439718	7,515699838
SLC30A10	0	0	0	0	0	0
SLC30A2	0	0	0	0	0	0
SLC30A3	0	0	0	0	0	2
SLC30A4	4,169925001	4,523561956	3,321928095	4,523561956	4,459431619	3,169925001
SLC30A5	7	6,918863237	6,781359714	6,768184325	7,266786541	6,820178962
SLC30A6	6,06608919	5,64385619	5,857980995	6,375039431	6,50779464	7,098032083
SLC30A7	7,900866808	7,982993575	8,011227255	7,426264755	7,74819285	8,06608919
SLC30A8	0	1	1	2,807354922	2,321928095	4,64385619
SLC30A9	6,129283017	6,409390936	6,375039431	6,882643049	7,108524457	6,409390936
SLC31A1	7,321928095	7,451211112	7,17990909	4,087462841	4,64385619	2
SLC31A2	7,375039431	7,515699838	7,434628228	2,807354922	4	3,807354922
SLC32A1	0	0	1,584962501	1	2,321928095	2
SLC33A1	7,392317423	7,375039431	7,209453366	8,022367813	7,864186145	8,016808288
SLC34A1	0	0	0	0	0	0
SLC34A2	0	0	0	0	0	0
SLC34A3	0	0	0	0	0	0
SLC35A1	7,06608919	7,209453366	6,807354922	6,409390936	6,882643049	4,95419631
SLC35A2	5,614709844	5,930737338	5,247927513	8,044394119	7,50779464	8,400879436
SLC35A3	6,906890596	6,807354922	6,965784285	6,820178962	7,06608919	6,491853096
SLC35A4	5,129283017	5,169925001	5,209453366	5,357552005	4	4,95419631
SLC35A5	6,965784285	6,658211483	6,169925001	4,857980995	5,392317423	4,321928095
SLC35B1	7,303780748	7,426264755	7,375039431	7,515699838	7,06608919	7,247927513
SLC35B2	5,044394119	5,129283017	5,392317423	5,129283017	5,169925001	4,95419631
SLC35B3	6,807354922	6,845490051	6,714245518	7,339850003	7,383704292	7,562242424
SLC35B4	5,64385619	5,392317423	4,64385619	4,857980995	4,459431619	4,321928095
SLC35C1	5,285402219	5	5,321928095	4,321928095	4,807354922	2
SLC35C2	6,807354922	6,686500527	6,22881869	6,658211483	6,768184325	6,06608919
SLC35D1	6	6,209453366	6,129283017	5,930737338	6,459431619	6,06608919
SLC35D2	5,727920455	6,189824559	5,727920455	4,087462841	5,64385619	4,95419631
SLC35D3	0	0	0	0	0	2
SLC35E1	7,768184325	7,6794801	7,366322214	7,531381461	7,807354922	7,672425342
SLC35E2B	6,044394119	5,977279923	6,044394119	7,055282436	6,614709844	7,055282436
SLC35E3	7,375039431	7,491853096	7,276124405	7	6,857980995	7,129283017
SLC35E4	2,807354922	2,584962501	2	2,321928095	2,321928095	3,169925001
SLC35F1	1,584962501	0	1	2,321928095	0	2
SLC35F2	4,321928095	3,700439718	3,807354922	4,700439718	4,807354922	3,169925001
SLC35F3	0	1,584962501	0	0	0	0
SLC35F4	2,321928095	0	0	0	0	0
SLC35F5	5,426264755	5,832890014	5,781359714	6,554588852	6,285402219	5,554588852
SLC35G1	4,247927513	2,807354922	3,807354922	3,321928095	2,321928095	0
SLC35G3	0	2,321928095	0	5,614709844	4,807354922	7,129283017

SLC35G5	0	0	1	0	0	2
SLC35G6	0	0	0	0	0	0
SLC36A1	7,108524457	7,022367813	7,22881869	4,087462841	3,321928095	4,95419631
SLC36A2	0	0	0	0	0	0
SLC36A3	0	0	0	0	0	0
SLC36A4	7,033423002	6,754887502	6,658211483	5,129283017	6,189824559	4,64385619
SLC37A1	6,303780748	5,930737338	5,727920455	4,700439718	5,169925001	4,321928095
SLC37A2	5,584962501	5,129283017	4,523561956	0	0	0
SLC37A3	6,62935662	6,459431619	6,768184325	7,285402219	6,882643049	7,129283017
SLC37A4	5,247927513	5,321928095	6,169925001	4,857980995	5,781359714	3,807354922
SLC38A1	9,8008999	9,847057346	9,77148947	10,35314683	10,2632692	10,36959735
SLC38A10	6,50779464	6,50779464	6,523561956	6,50779464	6,044394119	4,321928095
SLC38A11	2,584962501	3,321928095	3	4,857980995	4,64385619	5,357552005
SLC38A2	9,370687407	9,118941073	9,095397023	8,625708843	8,948367232	8,54303182
SLC38A3	0	0	0	0	0	0
SLC38A4	0	0	0	0	1,584962501	0
SLC38A5	2,584962501	3,321928095	3,807354922	2,807354922	3	2
SLC38A6	7,189824559	7,375039431	7,348728154	6,06608919	6,189824559	6,754887502
SLC38A7	5,209453366	5,426264755	4,95419631	4,321928095	3	3,807354922
SLC38A8	0	0	0	0	0	0
SLC38A9	5,209453366	4,857980995	5,491853096	5,754887502	5,554588852	6,882643049
SLC39A1	6,266786541	6,741466986	6,781359714	5,832890014	6,285402219	6,491853096
SLC39A10	7,614709844	7,247927513	7,159871337	9,586839788	8,942514505	10,09803208
SLC39A11	5,672425342	5,584962501	5,754887502	4,087462841	3,700439718	3,807354922
SLC39A12	0	0	0	0	0	0
SLC39A13	6,247927513	6,14974712	6,714245518	5,930737338	5,857980995	5,95419631
SLC39A14	4,584962501	4	3,700439718	4,087462841	4	4,95419631
SLC39A2	0	0	0	0	0	0
SLC39A3	3,459431619	4,523561956	3,169925001	3,321928095	3	3,169925001
SLC39A4	1,584962501	1,584962501	1,584962501	0	0	0
SLC39A5	0	0	0	0	0	0
SLC39A6	8,344295908	8,139551352	8,108524457	7,960001932	7,982993575	7,592457037
SLC39A7	7,285402219	7,714245518	7,781359714	7,693486957	7,768184325	7,672425342
SLC39A8	6,409390936	6,714245518	6,475733431	6,129283017	6,409390936	5,700439718
SLC39A9	6,906890596	7,21916852	7,276124405	7,409390936	7,50779464	7,592457037
SLC3A1	0	0	0	3,321928095	0	3,169925001
SLC3A2	7,129283017	7,312882955	7,303780748	7,727920455	7,707359132	8,016808288
SLC40A1	5,906890596	5,727920455	5,491853096	4,700439718	5,554588852	4,64385619
SLC41A1	6	5,523561956	5,554588852	4,857980995	5,781359714	4,95419631
SLC41A2	4,700439718	4,523561956	4,523561956	1	2,321928095	3,169925001
SLC41A3	5,169925001	4,523561956	4,857980995	4,087462841	4,459431619	3,169925001
SLC43A1	4,584962501	3,906890596	4,392317423	5,832890014	4,95419631	6,62935662
SLC43A2	8,326429487	8,527477006	8,479780264	6,794415866	6,882643049	7,129283017
SLC43A3	7,942514505	8,060695932	8,027905997	6,06608919	6,658211483	6,820178962
SLC44A1	8,654636029	8,622051819	8,430452552	7,442943496	7,73470962	7,169925001
SLC44A2	5,554588852	5,727920455	5,614709844	6,906890596	6,700439718	6,569855608
SLC44A3	0	0	0	0	0	0
SLC44A4	0	0	0	0	0	0
SLC44A5	2,807354922	0	2	0	1,584962501	0
SLC45A1	1	0	0	0	0	0
SLC45A2	0	0	0	0	0	0
SLC45A3	5,832890014	5,807354922	6,087462841	6,906890596	6,584962501	7,276124405
SLC45A4	5,321928095	5,129283017	5,584962501	4,857980995	3,700439718	0
SLC46A1	3,807354922	3,584962501	3,321928095	0	0	0
SLC46A2	0	0	0	0	0	0
SLC46A3	5,672425342	5,930737338	5,672425342	5,247927513	4,807354922	3,807354922
SLC47A1	0	1	0	1	1,584962501	0
SLC47A2	0	0	0	1	1,584962501	2

SLC48A1	3,459431619	4,087462841	4	2,807354922	1,584962501	0
SLC4A1	2,807354922	0	0	3,807354922	2,321928095	5,169925001
SLC4A10	3	3	3,700439718	5,700439718	5,727920455	5,554588852
SLC4A11	0	0	0	0	0	0
SLC4A1AP	7,392317423	7	6,95419631	7,14974712	7,139551352	7,098032083
SLC4A2	5,426264755	4,754887502	4,64385619	3,321928095	4,247927513	2
SLC4A3	0	0	0	0	0	0
SLC4A4	3,584962501	3,807354922	4,169925001	4,523561956	3,321928095	3,807354922
SLC4A5	1	2,321928095	2,584962501	4,087462841	1,584962501	3,169925001
SLC4A7	9,011227255	8,804131021	9	9,385862401	9,108524457	9,17990909
SLC4A8	3,700439718	3,584962501	3,584962501	4,087462841	4,95419631	5,832890014
SLC4A9	0	0	0	0	0	0
SLC50A1	6,247927513	6,539158811	6,64385619	5,459431619	5,727920455	4,95419631
SLC5A1	0	0	0	0	0	0
SLC5A10	0	0	0	0	0	0
SLC5A11	0	0	0	4,321928095	3,700439718	4,64385619
SLC5A12	1,584962501	0	2,807354922	4,523561956	3	4,64385619
SLC5A2	0	0	0	0	0	0
SLC5A3	7,741466986	7,761551232	8,238404739	8,224001674	8,257387843	8,312882955
SLC5A4	0	0	0	0	0	0
SLC5A5	0	0	1	0	2,321928095	4,321928095
SLC5A6	4,857980995	4,64385619	4,584962501	2,807354922	1,584962501	2
SLC5A7	0	0	0	0	1,584962501	3,169925001
SLC5A8	0	0	1	2,321928095	3,700439718	3,807354922
SLC5A9	0	0	0	0	0	0
SLC6A1	0	0	0	0	0	0
SLC6A10P	0	0	0	0	0	0
SLC6A11	0	0	0	0	0	0
SLC6A12	3,459431619	3,169925001	2,584962501	0	3	0
SLC6A13	0	0	0	3,321928095	3,321928095	4,64385619
SLC6A14	0	0	0	0	0	0
SLC6A15	1	0	0	0	0	0
SLC6A16	3,700439718	3,584962501	3,584962501	4,087462841	1,584962501	2
SLC6A17	0	0	0	1	0	2
SLC6A18	0	0	0	0	0	0
SLC6A19	0	0	0	0	0	0
SLC6A2	0	0	0	1	0	0
SLC6A20	1,584962501	0	0	3,807354922	3,700439718	3,807354922
SLC6A3	0	0	0	0	0	3,169925001
SLC6A4	0	0	0	1	1,584962501	0
SLC6A5	0	0	0	0	0	2
SLC6A6	8,011227255	8,383704292	8,266786541	7,459431619	7,451211112	6,700439718
SLC6A7	0	0	0	0	0	0
SLC6A8	0	1	0	0	0	0
SLC6A9	0	0	0	0	0	0
SLC7A1	6,584962501	6,965784285	6,375039431	6,409390936	6,50779464	6,409390936
SLC7A10	0	0	0	0	0	0
SLC7A11	9,28771238	9,457380879	9,453270634	6,930737338	7,74819285	7,169925001
SLC7A13	0	0	0	0	0	0
SLC7A14	1,584962501	3	2,807354922	4,857980995	4,247927513	5,554588852
SLC7A2	0	0	1	0	0	0
SLC7A3	0	0	0	0	0	0
SLC7A4	0	0	0	0	0	0
SLC7A5	6,189824559	6,569855608	6,475733431	7,303780748	7,321928095	7,312882955
SLC7A5P1	0	0	0	0	0	0
SLC7A5P2	0	0	0	0	0	0
SLC7A6	5,882643049	5,584962501	5,882643049	6,554588852	6,087462841	6,820178962
SLC7A6OS	6,62935662	6,754887502	7,098032083	7,851749041	7,491853096	7,700439718

SLC7A7	8,262094845	8,224001674	7,876516947	5	5,554588852	4,95419631
SLC7A8	3,584962501	3,906890596	4,087462841	0	2,321928095	3,169925001
SLC7A9	0	0	0	0	0	0
SLC8A1	8,851749041	8,483815777	8,622051819	2,321928095	3,321928095	4,321928095
SLC8A2	0	0	0	0	2,321928095	2
SLC8A3	0	0	0	0	0	0
SLC9A1	4,392317423	4,523561956	4,754887502	2,807354922	2,321928095	3,807354922
SLC9A2	1	0	0	0	0	0
SLC9A3	0	0	0	0	0	0
SLC9A3R1	7,339850003	6,727920455	6,768184325	7,303780748	7,62935662	7,375039431
SLC9A3R2	0	0	0	0	0	0
SLC9A4	0	0	0	1	0	0
SLC9A5	0	0	0	4,087462841	1,584962501	4,95419631
SLC9A6	6,95419631	7,21916852	6,87036472	6,409390936	6,614709844	6,247927513
SLC9A7	5,614709844	5,832890014	5,459431619	5,129283017	5,64385619	5,357552005
SLC9A7P1	0	1	0	0	0	0
SLC9A8	5,285402219	5,169925001	5,727920455	5,129283017	5,554588852	4,95419631
SLC9A9	5,64385619	5,64385619	5	5,129283017	4,247927513	4,95419631
SLC9B1	3,321928095	2,321928095	0	4,087462841	3	5,169925001
SLC9B2	4,523561956	4,523561956	4,700439718	5,129283017	4,95419631	3,807354922
SLCO1A2	0	0	1,584962501	2,807354922	0	2
SLCO1B1	1	0	1,584962501	0	2,321928095	4,95419631
SLCO1B3	0	0	0	0	0	0
SLCO1B7	0	0	0	0	0	0
SLCO1C1	0	1	0	1	0	0
SLCO2A1	0	0	0	0	0	0
SLCO2B1	5,491853096	5,426264755	5,930737338	0	0	0
SLCO3A1	8,113742166	8,055282436	8,361943774	7,266786541	7,22881869	7,011227255
SLCO4A1	4,459431619	5	4,64385619	6,22881869	6,409390936	6,491853096
SLCO4C1	4,321928095	4,459431619	4,169925001	2,807354922	3	4,64385619
SLCO5A1	3,459431619	2,584962501	2,807354922	2,321928095	0	2
SLCO6A1	0	1	0	0	0	0
SLFN11	7,417852515	7,400879436	7,159871337	5,247927513	5,64385619	5,357552005
SLFN12	5,807354922	5,807354922	5,906890596	2,321928095	4,64385619	2
SLFN12L	7,475733431	7,312882955	7,77478706	8,060695932	7,614709844	7,894817763
SLFN13	5,700439718	5,832890014	5,459431619	5,523561956	5,930737338	4,95419631
SLFN14	0	0	0	0	0	0
SLFN5	10,14338321	10,04028972	10,02513956	10,71681946	10,59152235	10,63390341
SLFNL1	0	0	0	0	0	0
SLIRP	8,17990909	8,21916852	8	7,442943496	7,366322214	7,592457037
SLIT1	1	0	0	0	0	0
SLIT2	2,321928095	3,321928095	1	4,087462841	4,459431619	4,321928095
SLIT2-IT1	0	0	0	0	0	0
SLIT3	0	1,584962501	0	3,321928095	2,321928095	3,169925001
SLITRK1	0	1	0	0	0	0
SLITRK2	0	0	0	0	0	0
SLITRK3	0	0	0	0	0	0
SLITRK4	3,321928095	3,807354922	3,169925001	4,321928095	4,64385619	4,64385619
SLITRK5	1,584962501	2,321928095	1,584962501	4,087462841	3,321928095	4,321928095
SLITRK6	0	0	1	0	2,321928095	2
SLK	8,927777962	8,77807713	9,06608919	8,495855027	8,599912842	8,558420713
SLMAP	8,129283017	7,754887502	7,768184325	8,044394119	7,832890014	8,159871337
SLN	0	0	0	0	0	0
SLPI	0	0	0	1	0	0
SLTM	10,35974956	10,20212382	10,28540222	10,75988818	10,60640521	10,78135971
SLU7	9,344295908	9,214319121	9,324180547	9,477758266	9,5980525	9,710806434
SLURP1	0	0	0	0	0	0
SLX1A	0	0	0	0	0	0

SLX1A-SULT1A3	0	0	0	0	0	0
SLX1B	0	0	0	0	0	0
SLX1B-SULT1A4	0	0	0	0	0	0
SLX4	4,584962501	4,754887502	4,700439718	2,807354922	0	0
SMAD1	2,807354922	2,321928095	2,584962501	2,807354922	1,584962501	2
SMAD2	8,487840034	8,475733431	8,312882955	8,312882955	8,129283017	8,257387843
SMAD3	8,098032083	7,994353437	8,139551352	9,283088353	9,113742166	9,105908509
SMAD4	7,754887502	7,900866808	7,87036472	8,252665432	8,339850003	8,204571144
SMAD5	7,851749041	7,741466986	7,977279923	7,768184325	7,965784285	7,761551232
SMAD5-AS1	0	0	0	0	0	0
SMAD6	4,169925001	4,95419631	4,169925001	5,357552005	4,247927513	4,95419631
SMAD7	7,714245518	7,714245518	7,781359714	7,876516947	7,820178962	7,721099189
SMAD9	0	0	1	0	0	2
SMAGP	2,321928095	3,169925001	3,807354922	3,807354922	2,321928095	0
SMAP1	8,214319121	8,071462363	8,370687407	8,033423002	8,129283017	8,016808288
SMAP2	9,233619677	9,136991112	8,977279923	9,665335917	9,465566405	9,672425342
SMARCA1	3	3,321928095	2,584962501	2,321928095	2,321928095	3,169925001
SMARCA2	9,651051691	9,505811554	9,741466986	9,505811554	9,497851837	9,17990909
SMARCA4	8,13442632	7,930737338	8,199672345	7,700439718	7,539158811	7,851749041
SMARCA5	9,789533645	9,743151394	9,642051693	10,15355203	10,15101654	10,20579325
SMARCAD1	7,383704292	7,714245518	7,54689446	7,531381461	7,74819285	7,312882955
SMARCAL1	5,129283017	4,754887502	4,906890596	4,523561956	5,169925001	3,807354922
SMARCB1	5,727920455	5,727920455	6,044394119	5,459431619	5,285402219	4,95419631
SMARCC1	9,63481105	9,620219826	9,544964433	9,812177306	9,654636029	9,688250309
SMARCC2	8,744833837	8,603626345	8,77478706	8,77478706	8,87958325	8,569855608
SMARCD1	5,781359714	5,727920455	6	5,459431619	5,64385619	5,95419631
SMARCD2	6,459431619	6,882643049	6,64385619	6,50779464	6,614709844	5,700439718
SMARCD3	3,584962501	3,584962501	4,392317423	2,807354922	3,700439718	0
SMARCE1	6,22881869	5,426264755	5,857980995	7,266786541	6,882643049	7,721099189
SMC1A	9,519636253	9,505811554	9,471675214	9,652844973	9,513727596	9,529430554
SMC1B	3	3,584962501	2	5,247927513	5,857980995	6,491853096
SMC2	8,276124405	8,049848549	8,189824559	8,022367813	7,948367232	7,721099189
SMC3	9,8008999	9,647458426	9,571752644	9,781359714	9,73978061	9,818582177
SMC4	9,63481105	9,465566405	9,324180547	9,759888183	9,571752644	9,63481105
SMC5	8,566054038	8,438791853	8,438791853	8,303780748	8,233619677	8,033423002
SMC6	8,625708843	8,483815777	8,554588852	8,339850003	8,299208018	8,238404739
SMCHD1	10,74986943	10,60640521	10,78953364	10,88493365	10,78953364	10,89708913
SMCP	0	0	0	0	0	0
SMCR5	0	0	0	2,321928095	3	0
SMCR8	7,531381461	7,665335917	7,906890596	7,942514505	7,864186145	8,290018847
SMG1	8,103287808	8,13442632	8,383704292	8,312882955	8,252665432	7,994353437
SMG5	4,169925001	5,044394119	5,129283017	3,321928095	3	0
SMG6	5,832890014	6,129283017	6,108524457	6,768184325	6,700439718	6,321928095
SMG7	6,285402219	6,392317423	6,491853096	7,129283017	7,044394119	6,965784285
SMG8	3	4,523561956	3,906890596	3,807354922	3,321928095	3,807354922
SMG9	4,95419631	5,044394119	5,044394119	4,321928095	3,700439718	4,321928095
SMN1	4,392317423	4,64385619	4,169925001	5,523561956	5,087462841	6,06608919
SMN2	2,807354922	2,807354922	2	4,523561956	4,459431619	5,700439718
SMNDC1	8,082149041	8,033423002	7,982993575	8,113742166	8,233619677	8,379378367
SMO	0	0	0	2,807354922	0	0
SMOC1	0	0	0	2,321928095	1,584962501	2
SMOC2	0	0	0	0	0	0
SMOX	0	0	0	0	1,584962501	0
SMPD1	6,044394119	6,06608919	5,781359714	5	5,727920455	5,554588852
SMPD2	1,584962501	3,321928095	3,584962501	1	3,321928095	0
SMPD3	4,169925001	3,906890596	3,700439718	1	0	2
SMPD4	6,64385619	6,882643049	6,459431619	7,357552005	7,451211112	7,209453366
SMPDL3A	3,906890596	3,807354922	4,247927513	0	0	0

SMPDL3B	0	0	0	0	1,584962501	0
SMPX	0	0	0	0	0	0
SMR3A	0	0	0	0	0	0
SMR3B	0	0	0	0	0	0
SMS	7,375039431	7,17990909	7,569855608	6,375039431	6,857980995	6,700439718
SMTN	0	1,584962501	0	0	0	0
SMTNL1	0	0	0	0	0	0
SMTNL2	0	0	0	0	0	0
SMU1	6,686500527	7,055282436	7,098032083	7,813781191	7,672425342	7,851749041
SMUG1	4,392317423	4,700439718	4,700439718	3,321928095	4,247927513	0
SMURF1	4,392317423	4,392317423	4,64385619	4,857980995	4,64385619	5,554588852
SMURF2	6,965784285	7,06608919	7,199672345	7,321928095	7,491853096	7,46760555
SMYD1	0	0	0	0	0	0
SMYD2	6,475733431	6,303780748	6,409390936	5,614709844	5,554588852	4,321928095
SMYD3	5,392317423	5,357552005	5,584962501	5,459431619	5,727920455	6,169925001
SMYD4	4,64385619	4,459431619	4,700439718	5,129283017	5,64385619	5,832890014
SMYD5	1,584962501	1,584962501	2,584962501	0	0	0
SNAI1	1,584962501	1,584962501	1,584962501	5,357552005	3	5,357552005
SNAI2	1	0	0	0	0	0
SNAI3	5,426264755	5,459431619	5,392317423	5,247927513	4,459431619	5,169925001
SNAP23	8,499845887	8,299208018	8,266786541	7,942514505	7,74819285	7,832890014
SNAP25	0	0	0	0	0	0
SNAP29	7,348728154	7,451211112	7,285402219	6,930737338	7,285402219	6,882643049
SNAP47	5,672425342	5,727920455	5,700439718	5,754887502	5,977279923	4,321928095
SNAP91	0	0	0	0	0	0
SNAPC1	6,303780748	6,06608919	6,189824559	6,459431619	6,375039431	5,169925001
SNAPC2	4,169925001	4,64385619	3,700439718	2,807354922	2,321928095	3,169925001
SNAPC3	6,794415866	6,523561956	6,285402219	6,129283017	6,189824559	5,169925001
SNAPC4	4,321928095	4,459431619	4,754887502	3,807354922	5,087462841	5,169925001
SNAPC5	5,554588852	5,807354922	5,727920455	5,754887502	5,727920455	2
SNAPIN	6,539158811	6,658211483	6,189824559	5,832890014	6,189824559	5,169925001
SNCA	5,247927513	4,857980995	5	5,129283017	4,459431619	5,700439718
SNCAIP	0	1,584962501	0	0	0	0
SNCB	0	0	0	0	0	0
SNCG	0	0	0	0	0	0
SND1	7,592457037	7,832890014	7,62935662	7	7,614709844	7,169925001
SNED1	2,584962501	3	0	0	4	3,807354922
SNF8	6,807354922	6,754887502	6,807354922	6,658211483	6,832890014	6,409390936
SNHG1	7,813781191	8,321928095	8,383704292	8,942514505	9,142107057	9,008428622
SNHG10	4,321928095	3,169925001	3,584962501	4,087462841	4,807354922	3,169925001
SNHG11	0	2,321928095	1,584962501	4,321928095	3,321928095	2
SNHG12	7,17990909	6,930737338	6,768184325	7,614709844	7,554588852	7,491853096
SNHG15	5,044394119	5,044394119	5,491853096	6,129283017	6,087462841	6,169925001
SNHG3	5,781359714	5,882643049	5,977279923	6,459431619	6,129283017	6,930737338
SNHG5	10,15481811	9,943979914	10,12153352	10,91662592	11,18177344	11,12412131
SNHG6	10,57175264	10,58965115	10,31741261	11,34151882	11,33539035	11,3885555
SNHG7	7,21916852	7,033423002	6,807354922	8,294620749	8,159871337	8,257387843
SNHG8	8,845490051	8,588714636	8,569855608	10,28424575	10,22641219	10,46352437
SNHG9	6,768184325	6,584962501	6,781359714	8,033423002	7,721099189	8,06608919
SNIP1	6,857980995	7,06608919	6,918863237	7,475733431	7,64385619	7,894817763
SNN	6,768184325	6,22881869	5,95419631	5,459431619	5,459431619	4,321928095
SNORA1	0	0	0	0	0	0
SNORA10	0	0	0	0	0	0
SNORA11	0	0	0	0	0	0
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SNORA11D	0	0	0	0	0	0
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SNORA16B	0	0	0	0	0	0
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SNPH	2,807354922	3	2,584962501	2,807354922	0	0
SNRK	7,475733431	7,383704292	7,409390936	8,257387843	8,209453366	7,894817763
SNRNP200	8,426264755	8,45532722	8,499845887	9,116343961	8,909893084	9,033423002
SNRNP25	4,459431619	4,087462841	4,523561956	0	0	0
SNRNP27	7,700439718	7,599912842	7,864186145	7,700439718	7,965784285	7,761551232
SNRNP35	5,554588852	5,882643049	6,044394119	6,321928095	5,459431619	5,700439718
SNRNP40	5,357552005	6,044394119	5,857980995	6,554588852	6,614709844	5,832890014
SNRNP48	7,562242424	7,539158811	7,700439718	7,918863237	7,569855608	7,442943496
SNRNP70	7,832890014	7,857980995	8,016808288	8,14974712	8,022367813	8,238404739
SNRPA	6,189824559	6,22881869	6,392317423	6,658211483	6,539158811	6,965784285
SNRPA1	5,930737338	5,930737338	5,807354922	7,169925001	7,06608919	7,375039431
SNRPB	7,491853096	7,531381461	7,651051691	8,087462841	7,982993575	8,189824559
SNRPB2	9,48984796	9,469641817	9,303780748	9,705632387	9,8008999	9,688250309
SNRPC	8,113742166	7,942514505	7,8008999	7,906890596	8,129283017	8,21916852
SNRPD1	8,487840034	8,566054038	8,413627929	8,471675214	8,535275377	8,491853096
SNRPD2	8,6794801	8,77478706	8,915879379	9,411510988	9,614709844	9,487840034
SNRPD2P2	0	0	0	0	0	0
SNRPD3	8,13442632	8,144658243	8,011227255	7,392317423	7,982993575	7,409390936
SNRPE	7	7,392317423	7,276124405	7,960001932	7,912889336	8,016808288
SNRPF	8,596189756	8,700439718	8,658211483	9,047123912	9,174925683	9,079484784
SNRPG	6,87036472	6,554588852	6,614709844	7,055282436	7,108524457	7,055282436
SNRPN	7,451211112	7,584962501	7,607330314	8,607330314	8,370687407	8,515699838
SNTA1	2,584962501	2,584962501	2,584962501	0	2,321928095	0
SNTB1	6,781359714	6,459431619	6,906890596	6,409390936	6,539158811	5,700439718
SNTB2	6,672425342	6,754887502	6,741466986	6,845490051	6,087462841	6,409390936
SNTG1	3	2,807354922	1,584962501	5,357552005	5,459431619	6,569855608
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SNTN	0	0	1	3,807354922	3,321928095	4,321928095
SNUPN	4,64385619	4,392317423	4,64385619	4,087462841	3,700439718	4,321928095
SNURF	2,584962501	3,169925001	1	4,857980995	3,321928095	4,64385619
SNW1	8,139551352	8,159871337	8,189824559	8,592457037	8,761551232	8,675957033
SNX1	9,036173613	9,100662339	9,087462841	9,055282436	8,918863237	8,816983623
SNX10	9,779719355	9,727920455	9,705632387	6,321928095	6,247927513	5,95419631
SNX11	5,584962501	6	5,754887502	2,321928095	3,321928095	3,169925001
SNX12	7,139551352	7,098032083	6,95419631	6	5,977279923	5,832890014
SNX13	7,426264755	7,321928095	7,442943496	7,700439718	7,475733431	7,700439718
SNX14	8,535275377	8,64385619	8,675957033	8,599912842	8,471675214	8,665335917
SNX15	0	0	1,584962501	0	0	0
SNX16	5,584962501	5	5,392317423	5,614709844	5,285402219	5,169925001
SNX17	6,882643049	7,21916852	6,942514505	7,209453366	7,820178962	7,348728154
SNX18	8,262094845	8,016808288	8,082149041	7,129283017	6,882643049	7,129283017

SNX19	6,781359714	6,807354922	6,339850003	6,741466986	6,965784285	6,754887502
SNX2	8,159871337	8,312882955	8,299208018	7,741466986	7,475733431	7,942514505
SNX20	7,459431619	7,459431619	7,515699838	7,826548487	7,965784285	7,539158811
SNX21	0	1	1,584962501	0	0	0
SNX22	3,459431619	4	3,906890596	6,189824559	5,285402219	6,06608919
SNX24	5,491853096	5,247927513	5,491853096	3,321928095	3	5,357552005
SNX25	5,209453366	5,426264755	5,321928095	5,357552005	5,392317423	6,06608919
SNX27	8,30833903	8,303780748	8,312882955	7,339850003	7,523561956	7,442943496
SNX29	6,475733431	6,62935662	6,475733431	6,375039431	5,857980995	5,554588852
SNX29P1	0	0	0	0	0	0
SNX29P2	0	0	0	0	0	0
SNX3	8,857980995	8,820178962	8,430452552	7,864186145	8,082149041	8,087462841
SNX30	6,247927513	6,285402219	6,044394119	5,247927513	4,807354922	5,554588852
SNX31	1	2,321928095	2,584962501	5,523561956	5,087462841	6,62935662
SNX32	0	0	0	0	0	0
SNX33	1,584962501	1,584962501	2,807354922	3,321928095	0	2
SNX4	6,977279923	7,044394119	6,965784285	6,977279923	6,741466986	7,011227255
SNX5	8,761551232	9,011227255	8,912889336	8,781359714	8,77148947	8,622051819
SNX6	8,511752654	8,28077077	8,129283017	8,285402219	8,011227255	8,174925683
SNX7	0	1	0	0	0	0
SNX8	5,832890014	5,781359714	5,930737338	2,807354922	4	3,169925001
SNX9	7,21916852	7,14974712	7,247927513	7,426264755	7,768184325	7,46760555
SOAT1	7,988684687	8,027905997	8,092757141	7,906890596	7,912889336	7,994353437
SOAT2	0	0	0	0	0	0
SOBP	0	0	1	2,321928095	1,584962501	0
SOCS1	6,95419631	6,768184325	6,741466986	6,321928095	6,965784285	6,62935662
SOCS2	4,95419631	3,906890596	4,64385619	2,807354922	0	3,169925001
SOCS3	7,108524457	7,257387843	7,6794801	6,794415866	6,857980995	7,942514505
SOCS4	6,247927513	6,06608919	5,95419631	6,06608919	6,285402219	6,06608919
SOCS5	6,459431619	6,22881869	6,189824559	6,06608919	5,857980995	6,169925001
SOCS6	5,727920455	5,169925001	5,044394119	1	0	2
SOCS7	6,832890014	7,011227255	6,95419631	7,022367813	6,768184325	6,754887502
SOD1	8,139551352	8,271463028	8,184875343	8,906890596	8,873444113	8,836050355
SOD2	8,607330314	8,661778098	8,654636029	6,845490051	7,238404739	7,189824559
SOD3	0	0	0	0	0	0
SOHLH1	0	0	0	0	0	2
SOHLH2	0	0	1	0	0	0
SON	11,30663136	11,21249639	11,30663136	11,169925	11,09539702	11,23421868
SORBS1	2,321928095	1	2,584962501	2,321928095	4	4,321928095
SORBS2	0	2,584962501	2	5,357552005	5,727920455	5,700439718
SORBS3	4,459431619	4,523561956	4,087462841	4,087462841	3,700439718	0
SORCS1	1,584962501	0	0	3,807354922	1,584962501	0
SORCS2	0	0	0	0	1,584962501	0
SORCS3	0	0	0	0	0	0
SORD	0	3	2	0	3	0
SORL1	10,04439412	10,03479896	9,97441459	10,09671515	10,18115226	9,873444113
SORT1	5,781359714	5,857980995	6,108524457	2,807354922	1,584962501	4,321928095
SOS1	9,353146825	9,052568051	9,238404739	9,603626345	9,388017285	9,236014192
SOS2	8,438791853	8,335390355	8,28077077	8,573647187	8,370687407	8,348728154
SOST	0	0	0	1	0	0
SOSTDC1	0	0	0	0	0	0
SOWAHA	0	0	0	0	0	0
SOWAHB	0	0	0	0	0	0
SOWAHC	6,303780748	6,129283017	6,169925001	0	3,700439718	2
SOWAHD	4	4,169925001	4	0	0	0
SOX1	0	0	0	0	0	0
SOX10	0	0	0	0	0	0
SOX11	3	3,169925001	1,584962501	3,807354922	4	5,95419631

SOX12	4,459431619	4,857980995	4,392317423	4,321928095	4,807354922	2
SOX13	0	1,584962501	3,169925001	1	4	0
SOX14	0	0	0	0	0	0
SOX15	0	0	0	0	1,584962501	0
SOX17	0	0	0	0	0	0
SOX18	0	0	0	0	0	0
SOX2	0	0	0	1	0	0
SOX2-OT	4,169925001	4	4,087462841	6,321928095	5,64385619	7,129283017
SOX21	0	0	0	0	0	0
SOX3	0	0	0	0	0	0
SOX30	0	0	0	0	0	0
SOX4	6,303780748	6,189824559	6,50779464	5,930737338	6,044394119	6,491853096
SOX5	3,459431619	2,321928095	3,700439718	4,087462841	4,247927513	4,321928095
SOX6	4,247927513	4,087462841	3,700439718	7,076815597	7,17990909	7,761551232
SOX7	1,584962501	0	2	0	1,584962501	4,64385619
SOX8	2,584962501	1,584962501	2	0	0	0
SOX9	1	2,321928095	2,807354922	3,321928095	4,459431619	5,169925001
SP1	7,499845887	7,276124405	7,515699838	7,098032083	7,451211112	7,348728154
SP100	9,612868497	9,569855608	9,618385502	9,417852515	9,461479447	9,59058705
SP110	8,915879379	8,813781191	8,924812504	9,038918989	8,991521846	9,17990909
SP140	7,74819285	7,636624621	8	7,960001932	8,055282436	7,894817763
SP140L	7,8008999	7,832890014	7,832890014	8,159871337	8,174925683	8,144658243
SP2	6,285402219	6,50779464	6,266786541	6,409390936	6,087462841	6,491853096
SP3	8,233619677	8,038918989	8,129283017	8,060695932	8,044394119	7,721099189
SP4	8,082149041	8,027905997	7,930737338	7,491853096	7,876516947	7,247927513
SP5	0	0	0	0	0	0
SP6	0	0	0	1	0	3,169925001
SP7	0	0	0	0	0	0
SP8	0	0	0	0	0	2
SP9	0	0	0	0	0	0
SPA17	0	0	1	0	0	3,169925001
SPACA1	0	0	0	0	0	0
SPACA3	0	0	0	0	0	0
SPACA4	0	0	0	0	0	0
SPACA5	0	0	0	0	0	0
SPACA5B	0	0	0	0	0	0
SPACA7	0	0	0	0	0	0
SPAG1	3,906890596	3,584962501	3,321928095	2,807354922	4,807354922	4,64385619
SPAG11A	0	0	0	0	0	0
SPAG11B	0	0	0	0	0	0
SPAG16	5,554588852	5	5,129283017	6,584962501	6,832890014	7,169925001
SPAG17	1,584962501	1,584962501	1,584962501	2,807354922	2,321928095	4,64385619
SPAG4	0	0	0	0	0	0
SPAG5	2,584962501	1	1,584962501	3,807354922	2,321928095	4,321928095
SPAG5-AS1	0	2,321928095	1	4,087462841	3	4,321928095
SPAG6	0	0	1	0	0	0
SPAG7	8,113742166	8,290018847	7,894817763	8,060695932	7,994353437	8,330916878
SPAG8	1	2,321928095	0	1	1,584962501	0
SPAG9	8,405141463	8,238404739	8,361943774	8,647458426	8,330916878	8,584962501
SPAM1	0	3	0	2,321928095	4	3,169925001
SPANXA1	0	0	0	0	0	0
SPANXA2	0	0	0	0	0	0
SPANXA2-OT1	0	0	0	0	0	0
SPANXB1	0	0	0	0	0	0
SPANXC	0	0	0	0	0	0
SPANXD	0	0	0	0	0	0
SPANXN1	0	0	0	0	0	0
SPANXN2	0	0	0	0	0	0

SPANXN3	0	0	0	0	0	0
SPANXN4	0	0	0	0	0	0
SPANXN5	0	0	0	0	0	0
SPARC	2,807354922	2,807354922	2,584962501	3,807354922	4,247927513	0
SPARCL1	0	0	1	0	0	0
SPAST	7,022367813	7,50779464	7,321928095	6,658211483	6,807354922	6,321928095
SPATA12	0	0	0	0	0	2
SPATA13	6,930737338	7,06608919	7,011227255	8	7,936637939	8,174925683
SPATA16	0	1	1,584962501	3,321928095	3	4,95419631
SPATA17	0	1,584962501	1	1	2,321928095	3,807354922
SPATA18	0	0	0	0	0	0
SPATA19	0	0	0	0	0	0
SPATA2	4,392317423	3,807354922	3,807354922	4,700439718	3,700439718	4,64385619
SPATA20	1,584962501	2,321928095	2	2,321928095	1,584962501	0
SPATA21	0	0	0	0	0	0
SPATA22	0	0	0	0	0	0
SPATA24	2,584962501	2,321928095	2	0	0	0
SPATA25	0	0	0	0	0	0
SPATA2L	1,584962501	1,584962501	1	0	0	0
SPATA3	0	0	1	0	0	3,169925001
SPATA4	0	0	0	1	0	2
SPATA5	5,930737338	5,554588852	5,209453366	6	5,930737338	6,169925001
SPATA5L1	4,392317423	3,584962501	3,807354922	3,321928095	3,700439718	4,321928095
SPATA6	3,584962501	3	2	0	2,321928095	0
SPATA7	3,321928095	2,807354922	2	1	3,321928095	4,321928095
SPATA8	0	0	0	0	0	0
SPATA9	1	1	0	0	0	2
SPATC1	0	0	1	0	0	0
SPATS1	0	0	0	0	0	0
SPATS2	5,426264755	5,044394119	5,247927513	5	5,64385619	4,64385619
SPATS2L	6,392317423	6,339850003	6,599912842	5,523561956	5,554588852	5,554588852
SPC24	0	0	1	0	0	0
SPC25	0	0	0	0	0	0
SPCS1	8,28077077	8,361943774	8,016808288	8,751544059	8,54689446	8,647458426
SPCS2	5,554588852	5,977279923	5,169925001	5,882643049	5,727920455	5,357552005
SPCS3	9,700439718	9,487840034	9,436711542	8,614709844	8,754887502	8,447083226
SPDEF	0	0	0	1	0	0
SPDYA	1,584962501	2,321928095	1	2,807354922	3	5,169925001
SPDYC	0	0	0	0	0	0
SPDYE1	0	0	0	1	0	4,95419631
SPDYE2	0	0	0	0	0	0
SPDYE3	0	0	0	0	1,584962501	0
SPDYE4	0	0	0	0	0	0
SPDYE6	0	0	0	0	0	0
SPDYE7P	0	0	0	0	0	0
SPDYE8P	0	0	0	0	0	0
SPECC1	6,303780748	6,375039431	5,930737338	5,523561956	5,554588852	6,491853096
SPECC1L	5,554588852	5,857980995	5,523561956	5,700439718	5,554588852	3,169925001
SPEF1	0	0	0	0	0	0
SPEF2	6,06608919	5,832890014	6,189824559	7,14974712	7,087462841	6,06608919
SPEG	0	1	1	2,321928095	0	0
SPEM1	0	0	0	0	0	0
SPEN	9,13442632	9,049848549	9,06608919	9,082149041	8,807354922	9,21916852
SPERT	0	0	0	0	0	0
SPESP1	0	0	0	3,321928095	0	4,321928095
SPG11	7,982993575	7,839203788	7,960001932	8,487840034	8,071462363	8,77807713
SPG21	8	7,906890596	7,794415866	6,584962501	6,832890014	6,169925001
SPG7	7,169925001	7,554588852	7,73470962	7,942514505	7,599912842	8,108524457

SPHAR	0	0	0	0	0	0
SPHK1	4	4,523561956	3	0	0	0
SPHK2	5	4,857980995	5	5	5,554588852	5,357552005
SPHKAP	1,584962501	0	0	4,321928095	4	5,95419631
SPI1	6,392317423	6,781359714	6,832890014	2,321928095	3	0
SPIB	4,95419631	5,044394119	4,754887502	5,129283017	6,539158811	4,95419631
SPIC	0	0	0	0	0	0
SPICE1	4,700439718	4,459431619	4,754887502	5,930737338	4,459431619	4,95419631
SPIN1	8,016808288	8,129283017	7,977279923	7,658211483	7,851749041	7,851749041
SPIN2A	0	0	0	0	0	0
SPIN2B	0	1	2	2,321928095	2,321928095	0
SPIN3	3,807354922	4,321928095	4,523561956	3,321928095	3,700439718	3,169925001
SPIN4	6	6,108524457	5,672425342	5,247927513	4,459431619	4,64385619
SPINK1	2,807354922	3,807354922	3,807354922	2,321928095	0	3,807354922
SPINK13	0	0	0	0	0	0
SPINK14	0	0	0	0	0	0
SPINK2	0	2,321928095	0	0	0	0
SPINK4	0	0	0	0	0	0
SPINK5	1	1,584962501	1,584962501	2,807354922	3,700439718	2
SPINK6	0	0	0	0	0	0
SPINK7	0	0	0	0	0	0
SPINK8	0	0	0	0	0	0
SPINK9	0	0	0	0	0	0
SPINT1	1	3	1,584962501	2,321928095	0	0
SPINT2	6,988684687	6,832890014	6,475733431	6,62935662	6,700439718	5,832890014
SPINT3	0	0	0	0	0	0
SPINT4	0	0	0	0	0	0
SPIRE1	5,781359714	5,882643049	6,044394119	1	3	3,807354922
SPIRE2	3,459431619	3	3,584962501	5,459431619	5,781359714	6,06608919
SPN	9,174925683	9,283088353	9,21916852	9,294620749	9,548821908	8,744833837
SPNS1	1	0	0	0	3	3,169925001
SPNS2	0	0	0	0	0	0
SPNS3	2,321928095	1,584962501	0	1	0	0
SPO11	0	0	0	0	0	0
SPOCD1	1	0	0	2,321928095	1,584962501	4,95419631
SPOCK1	0	1	0	0	3,700439718	3,807354922
SPOCK2	9,438791853	9,605479518	9,567956075	10,29576893	10,33315535	10,22158712
SPOCK3	0	0	1	0	0	0
SPON1	6,409390936	6,266786541	6,554588852	7,499845887	7,434628228	7,312882955
SPON2	6,087462841	6,459431619	6,599912842	5,459431619	5,781359714	4,95419631
SPOP	8,915879379	8,921840937	8,861086906	8,845490051	9,126704473	8,768184325
SPOPL	7,392317423	7,17990909	7,22881869	7,129283017	7,022367813	7,276124405
SPP1	8,285402219	8,921840937	7,73470962	5,882643049	6,857980995	0
SPP2	0	0	0	0	0	0
SPPL2A	9,131856961	9,177419538	9,243173983	7,994353437	8,118941073	8,129283017
SPPL2B	5,169925001	5,247927513	5,554588852	6,50779464	4,807354922	5,169925001
SPPL2C	0	0	0	0	0	0
SPPL3	7,087462841	7,276124405	7,303780748	7,693486957	7,64385619	7,622051819
SPR	4,247927513	3,700439718	2,807354922	0	0	0
SPRED1	7,139551352	7,199672345	6,95419631	2,807354922	4,247927513	4,321928095
SPRED2	2,807354922	3	4	1	2,321928095	2
SPRED3	1	2,321928095	0	1	3,321928095	3,807354922
SPRN	0	0	0	0	0	0
SPRR1A	0	0	0	0	0	0
SPRR1B	0	0	0	0	0	0
SPRR2A	0	0	0	0	0	0
SPRR2B	0	0	0	0	0	0
SPRR2C	0	0	0	0	0	0

SPRR2D	0	0	0	0	0	0
SPRR2E	0	0	0	0	0	0
SPRR2F	0	0	0	0	0	0
SPRR2G	0	0	0	0	0	0
SPRR3	0	0	0	0	0	0
SPRR4	0	0	0	0	0	0
SPRY1	2,321928095	3,321928095	2	2,807354922	1,584962501	0
SPRY2	3,459431619	4,392317423	4,64385619	1	1,584962501	0
SPRY3	2,807354922	2,807354922	2	1	0	0
SPRY4	0	0	1	0	0	0
SPRYD3	6,247927513	6,22881869	6,285402219	4,321928095	5,64385619	5,357552005
SPRYD4	5,285402219	4,95419631	4,754887502	5,247927513	4,95419631	5,700439718
SPRYD7	5,672425342	5,857980995	5,906890596	5,523561956	5,857980995	5,357552005
SPSB1	1	1,584962501	1	2,321928095	0	0
SPSB2	4,906890596	5	4,95419631	4,523561956	4,247927513	5,700439718
SPSB3	5,781359714	6,375039431	6,64385619	6,658211483	6,247927513	5,95419631
SPSB4	0	0	0	0	0	0
SPTA1	1,584962501	1	2,584962501	0	0	0
SPTAN1	6,044394119	5,857980995	6	6,50779464	6,614709844	6,247927513
SPTB	0	0	0	0	0	0
SPTBN1	7,948367232	7,839203788	7,912889336	8,562242424	8,174925683	8,348728154
SPTBN2	0	0	0	0	0	0
SPTBN4	0	0	0	0	0	0
SPTBN5	0	1	2	0	0	0
SPTLC1	8,392317423	8,503825738	8,339850003	7,515699838	7,912889336	7,46760555
SPTLC2	8,139551352	8,159871337	8,027905997	7,781359714	7,693486957	7,442943496
SPTLC3	1	1,584962501	0	1	0	0
SPTSSA	7,076815597	7,209453366	7,011227255	6,22881869	5,930737338	5,169925001
SPTSSB	1	0	1	1	1,584962501	0
SPTY2D1	7,900866808	7,721099189	7,768184325	8,224001674	8,209453366	8,475733431
SPZ1	0	0	0	0	0	2
SQLE	6,14974712	6,06608919	6,247927513	5,754887502	6,247927513	5,700439718
SQSTM1	8,97441459	8,921840937	9,049848549	8,717676423	8,707359132	8,584962501
SRA1	5,392317423	5,392317423	5,209453366	4,321928095	4,459431619	4,95419631
SRBD1	6,832890014	6,672425342	6,64385619	6,459431619	6,375039431	6,247927513
SRC	6,781359714	7,033423002	7,64385619	4,087462841	4,807354922	2
SRCAP	3,906890596	3,584962501	3,700439718	3,807354922	3,700439718	2
SRCIN1	0	0	1	3,321928095	0	0
SRD5A1	5,169925001	5,247927513	5,392317423	3,807354922	3,700439718	0
SRD5A1P1	0	0	0	0	0	0
SRD5A2	0	0	0	0	0	0
SRD5A3	4,459431619	4,857980995	4,169925001	1	3	3,169925001
SREBF1	4,754887502	5,523561956	5,491853096	3,321928095	3,700439718	2
SREBF2	6,375039431	6,658211483	6,129283017	6,06608919	6,539158811	6,169925001
SREK1	9,13442632	9,011227255	9,259743264	9,154818109	9,011227255	9,25502857
SREK1IP1	7,584962501	7,531381461	7,569855608	7,794415866	7,888743249	7,787902559
SRF	7,832890014	8,098032083	7,754887502	8,060695932	8,21916852	7,787902559
SREBP1	6,108524457	6,285402219	6,409390936	6,62935662	6,539158811	6,930737338
SRGAP1	3,906890596	3,169925001	3,169925001	5,459431619	5,392317423	6,569855608
SRGAP2	6,426264755	6,357552005	6,523561956	1	5,087462841	3,807354922
SRGAP3	3,459431619	2,321928095	3	2,807354922	4	6,321928095
SRGN	11,37666806	11,3885555	11,37666806	10,64295422	10,84627391	10,53430288
SRI	7,54689446	7,442943496	7,357552005	7,129283017	7,209453366	7,098032083
SRL	0	0	0	2,321928095	0	4,321928095
SRM	5,832890014	6,285402219	5,781359714	5,832890014	5,977279923	4,95419631
SRMS	0	0	0	0	0	0
SRP14	10,18858885	10,26561505	10,16616308	10,36522885	10,34096276	10,36194377
SRP19	7,8008999	7,707359132	7,357552005	8,071462363	7,864186145	8,271463028

SRP54	7,622051819	7,6794801	7,46760555	7,813781191	7,50779464	7,442943496
SRP68	6,303780748	6,442943496	6,169925001	6,882643049	6,832890014	7,055282436
SRP72	9,167418146	9,147204925	9,184875343	8,515699838	8,784634846	8,271463028
SRP9	7,971543554	7,888743249	7,894817763	8,375039431	8,396604781	8,654636029
SRPK1	7,098032083	6,942514505	6,807354922	7,266786541	7,108524457	7,276124405
SRPK2	9,076815597	8,915879379	9,124121312	9,164906927	9,17990909	9,189824559
SRPK3	0	0	0	0	0	0
SRPRB	7,599912842	7,569855608	7,357552005	7,266786541	7,693486957	6,62935662
SRPX	0	0	0	0	0	0
SRPX2	0	0	0	0	0	0
SRR	3,584962501	3,700439718	2,807354922	1	3,321928095	4,64385619
SRRD	4,857980995	5,392317423	5,584962501	4,700439718	4,95419631	4,64385619
SRRM1	10,07547915	9,911391988	9,932214752	10,20823436	10,15860969	10,06339508
SRRM2	10,49785184	10,49385545	10,45121111	10,80896417	10,70563239	10,85486838
SRRM3	0	0	1	0	0	2
SRRM4	1	0	0	0	0	0
SRRM5	0	1,584962501	0	0	0	0
SRRT	7,686500527	8,011227255	7,864186145	7,754887502	7,658211483	7,348728154
SRSF1	8,816983623	8,554588852	8,727920455	8,968666793	8,573647187	8,724513853
SRSF10	9,48984796	9,375039431	9,403012024	9,769837844	9,548821908	9,813781191
SRSF11	10,91662592	10,79522797	10,90839262	11,0768156	10,81618368	11,02097994
SRSF12	1	0	1,584962501	2,807354922	1,584962501	0
SRSF2	9,243173983	9,312882955	9,283088353	9,002815016	9,113742166	8,791162889
SRSF3	9,842350343	9,721099189	9,588714636	9,73470962	9,759888183	9,59058705
SRSF4	9,379378367	9,335390355	9,46760555	8,832890014	9	9,041659152
SRSF5	11,169925	11,25620869	11,18982456	10,72706956	10,75321675	10,60640521
SRSF6	8,06608919	8,299208018	8,409390936	7,794415866	8,011227255	7,491853096
SRSF7	9,981567282	9,924812504	9,864186145	9,59058705	9,640244936	9,59058705
SRSF8	8,28077077	8,233619677	8,189824559	9,068778278	9,306061689	8,87958325
SRSF9	7,857980995	8,060695932	8,113742166	7,839203788	8,044394119	8,174925683
SRXN1	1	1,584962501	2,584962501	0	1,584962501	0
SRY	0	0	0	0	0	0
SS18	6,857980995	7,044394119	7,022367813	6,930737338	7,209453366	7,169925001
SS18L1	5,807354922	5,64385619	6,087462841	6,129283017	5,554588852	5,554588852
SS18L2	7,139551352	7,238404739	7,22881869	6,845490051	7,321928095	6,820178962
SSB	9,303780748	9,167418146	8,985841937	9,465566405	9,226412193	9,400879436
SSBP1	8,885696373	8,971543554	8,891783703	8,980139578	9,108524457	9,105908509
SSBP2	6,14974712	6,303780748	6,523561956	6,906890596	6,700439718	6,820178962
SSBP3	7,658211483	7,807354922	8,049848549	7,693486957	8,103287808	7,562242424
SSBP4	6,569855608	6,569855608	6,554588852	5,882643049	5,392317423	5,357552005
SSC5D	0	0	0	0	0	0
SSH1	7,539158811	7,569855608	7,864186145	7,129283017	7,312882955	6,965784285
SSH2	7,672425342	7,794415866	7,754887502	8,103287808	7,794415866	8,06608919
SSH3	2,807354922	1,584962501	3,584962501	4,087462841	3,321928095	4,321928095
SSNA1	4,392317423	5,426264755	4,584962501	4,857980995	4,64385619	3,169925001
SSPN	5,321928095	5,584962501	5,426264755	6,930737338	6,375039431	6,965784285
SSPO	0	0	0	0	1,584962501	0
SSR1	9,696967526	9,577428828	9,405141463	9,164906927	9,383704292	8,724513853
SSR2	8,487840034	8,6794801	8,77807713	8,897845456	8,87958325	8,665335917
SSR3	9,154818109	9,087462841	8,807354922	8,330916878	8,566054038	8,290018847
SSR4	7,948367232	7,876516947	7,483815777	8,243173983	8,348728154	8,271463028
SSR4P1	1	0	0	0	0	0
SSRP1	8,330916878	8,523561956	8,266786541	8,832890014	9	8,927777962
SSSCA1	3	3,807354922	4,087462841	2,321928095	4	0
SST	0	0	0	0	0	0
SSTR1	0	0	0	0	0	0
SSTR2	4,64385619	4,459431619	4,700439718	5,754887502	4,247927513	4,64385619
SSTR3	3,459431619	3,321928095	3	5,459431619	5,554588852	6,06608919

SSTR4	0	0	0	0	0	0
SSTR5	0	0	0	0	0	0
SSU72	7,562242424	7,754887502	7,912889336	8,562242424	8,651051691	8,686500527
SSX1	0	0	0	0	0	0
SSX2	0	0	0	0	0	0
SSX2B	0	0	0	0	0	0
SSX2IP	5,832890014	5,285402219	5,209453366	5,129283017	5,285402219	3,169925001
SSX3	0	0	0	0	0	0
SSX4	0	0	0	0	0	0
SSX4B	0	0	0	0	0	0
SSX5	0	0	0	0	0	0
SSX7	0	0	0	0	0	0
ST13	8,290018847	8,361943774	8,353146825	8,562242424	8,62935662	8,791162889
ST13P4	1,584962501	1,584962501	1,584962501	3,321928095	1,584962501	0
ST14	5,781359714	5,672425342	6,285402219	2,807354922	1,584962501	0
ST18	3,321928095	1,584962501	1	1	1,584962501	2
ST20	4,754887502	4,906890596	4,64385619	6,321928095	5,857980995	5,832890014
ST20-MTHFS	0	0	0	0	0	0
ST3GAL1	7,700439718	7,839203788	7,599912842	8,422064766	8,330916878	8,144658243
ST3GAL2	5,977279923	6,189824559	6,087462841	5,459431619	6,189824559	5,357552005
ST3GAL3	4,321928095	4	4,169925001	3,807354922	3	2
ST3GAL4	2,807354922	3,169925001	1	1	3,700439718	2
ST3GAL5	7,930737338	7,918863237	8,164906927	7,285402219	7,247927513	6,882643049
ST3GAL6	6,475733431	6,523561956	6,614709844	5	5,087462841	5,832890014
ST5	0	0	0	2,321928095	3,321928095	4,321928095
ST6GAL1	9,063395081	9,060695932	8,930737338	9,731319031	9,700439718	9,642051693
ST6GAL2	1	0	0	0	0	0
ST6GALNAC1	1,584962501	2,807354922	2,807354922	3,321928095	4	2
ST6GALNAC2	0	0	0	0	0	0
ST6GALNAC3	3,321928095	2,807354922	3,169925001	3,321928095	4,459431619	3,169925001
ST6GALNAC4	4,392317423	4,64385619	4,523561956	0	1,584962501	0
ST6GALNAC5	0	0	1	0	0	2
ST6GALNAC6	0	0	0	0	0	4,64385619
ST7	2,584962501	3,807354922	3,321928095	3,321928095	3	2
ST7-AS1	1	0	0	0	0	0
ST7-AS2	0	0	0	0	0	0
ST7-OT4	2,321928095	1	0	2,321928095	0	0
ST7L	4,169925001	4	4	5,459431619	5,285402219	5,357552005
ST8SIA1	5,977279923	6,22881869	6,459431619	7,876516947	7,383704292	7,918863237
ST8SIA2	0	0	0	0	0	0
ST8SIA3	1	0	1	1	2,321928095	0
ST8SIA4	8,321928095	8,344295908	8,30833903	7,303780748	7,247927513	7,409390936
ST8SIA5	0	0	0	0	0	0
ST8SIA6	0	1,584962501	2	0	2,321928095	2
STAB1	6,087462841	6,459431619	6,614709844	2,807354922	1,584962501	3,169925001
STAB2	0	2,321928095	0	4,087462841	3,700439718	4,321928095
STAC	4	1	2,584962501	0	0	0
STAC2	0	0	0	0	0	0
STAC3	3,906890596	4,459431619	3,584962501	4,087462841	2,321928095	4,64385619
STAG1	8,139551352	7,87036472	8,139551352	8,257387843	8,174925683	8,087462841
STAG2	10,22400167	10,17617315	10,18487534	10,40407714	10,33315535	10,50779464
STAG3	3,321928095	1,584962501	2,807354922	4,321928095	3,321928095	3,169925001
STAG3L1	1	1	1,584962501	1	1,584962501	0
STAG3L2	1,584962501	1	1,584962501	2,321928095	3	2
STAG3L3	2,584962501	1	2	1	1,584962501	0
STAG3L4	3,700439718	4	3,584962501	2,807354922	3,321928095	4,321928095
STAM	7,055282436	7,098032083	7,257387843	7,714245518	7,693486957	7,965784285
STAM2	7,592457037	7,312882955	7,434628228	7,285402219	6,965784285	7,129283017

STAMBP	7,098032083	6,918863237	6,820178962	7,129283017	6,857980995	6,754887502
STAMBPL1	6,285402219	5,087462841	5,754887502	6,22881869	6,741466986	5,95419631
STAP1	5,321928095	5,523561956	5,392317423	5,700439718	6,321928095	5,832890014
STAP2	1	0	0	0	0	0
STAR	0	0	0	0	0	0
STARD10	3,321928095	1,584962501	3	2,321928095	0	0
STARD13	3,700439718	1	4,392317423	3,321928095	4,64385619	4,95419631
STARD3	5,321928095	5,832890014	5,754887502	5,930737338	6,247927513	6,06608919
STARD3NL	6,426264755	5,95419631	6,044394119	5,614709844	4,459431619	2
STARD4	7,033423002	6,475733431	6,672425342	4,700439718	5,285402219	3,169925001
STARD5	3	3,321928095	3,584962501	0	1,584962501	0
STARD6	0	0	0	0	0	0
STARD7	9,335390355	9,245552706	9,105908509	8,703903573	8,784634846	8,392317423
STARD8	3,459431619	4,321928095	4,087462841	2,321928095	1,584962501	2
STARD9	5,247927513	4,906890596	4,857980995	4,087462841	4	3,169925001
STAT1	12,14815877	12,0657527	12,10590851	9,45532722	9,975847968	9,62935662
STAT2	8,353146825	8,28077077	8,409390936	7,442943496	7,475733431	7,312882955
STAT3	7,839203788	8,108524457	8,164906927	7,930737338	8,14974712	8,21916852
STAT4	6,700439718	6,14974712	6,64385619	7,22881869	6,50779464	6,882643049
STAT5A	7,768184325	7,693486957	7,845490051	7,851749041	8,159871337	7,894817763
STAT5B	7,787902559	7,857980995	7,882643049	8,607330314	8,636624621	8,724513853
STAT6	8,672425342	9,087462841	8,980139578	8,906890596	8,807354922	8,290018847
STATH	3	3,807354922	2	5,129283017	4,64385619	5,95419631
STAU1	7,930737338	7,832890014	7,864186145	8,044394119	7,942514505	7,832890014
STAU2	7,321928095	7,199672345	7,098032083	7,098032083	7,434628228	7,055282436
STC1	0	2,321928095	0	1	2,321928095	0
STC2	0	0	0	0	0	0
STEAP1	0	0	0	0	1,584962501	0
STEAP1B	0	0	0	2,321928095	0	0
STEAP2	1	0	0	3,321928095	0	3,807354922
STEAP3	2,584962501	3,321928095	3,169925001	0	0	0
STEAP4	7,569855608	7,62935662	7,491853096	1	3,700439718	0
STH	0	0	0	0	0	0
STIL	1,584962501	2,807354922	2,807354922	5,614709844	5,285402219	6,491853096
STIM1	7,159871337	7,515699838	7,50779464	8,113742166	7,888743249	7,539158811
STIM2	8,807354922	8,77148947	8,751544059	9,539158811	9,271463028	9,364134655
STIP1	6,882643049	6,754887502	6,658211483	7,129283017	6,614709844	6,321928095
STK10	8,233619677	8,276124405	8,487840034	8,77148947	8,807354922	8,426264755
STK11	6,614709844	6,918863237	7,409390936	7,515699838	7,491853096	7,409390936
STK11IP	4,95419631	4,754887502	5	3,321928095	4	3,169925001
STK16	4,754887502	5,087462841	5,426264755	5,930737338	6,285402219	6,820178962
STK17A	8,413627929	8,330916878	8,344295908	9,09011242	9,245552706	9,269126679
STK17B	10,19844504	10,01959073	10,19844504	10,56605404	10,51076417	10,55554777
STK19	1,584962501	0	1,584962501	2,321928095	1,584962501	3,169925001
STK24	8,379378367	8,592457037	8,199672345	8,625708843	8,731319031	8,330916878
STK25	7,554588852	7,6794801	7,383704292	7,022367813	7,06608919	6,820178962
STK3	6,044394119	6,087462841	5,930737338	6	6,044394119	6,965784285
STK31	2,584962501	2,584962501	2	3,321928095	3,321928095	4,321928095
STK32A	0	0	0	0	0	0
STK32B	0	1	0	1	0	0
STK32C	5,426264755	5,672425342	5,321928095	6,189824559	5,169925001	6,569855608
STK33	2,584962501	0	0	3,321928095	1,584962501	4,64385619
STK35	6,614709844	6,918863237	6,820178962	7,592457037	7,721099189	7,515699838
STK36	5,906890596	6,06608919	5,930737338	6,700439718	5,727920455	6,321928095
STK38	8,665335917	8,936637939	8,924812504	9,139551352	9,396604781	9,063395081
STK38L	7,21916852	6,942514505	6,781359714	6,768184325	7	6,569855608
STK39	6,392317423	6,14974712	6,189824559	7,14974712	7,321928095	7,247927513
STK4	10,45532722	10,57175264	10,54012804	10,75321675	10,73724734	10,67683861

STK40	7,129283017	6,392317423	6,569855608	6,321928095	6,321928095	5,95419631
STMN1	7,022367813	6,845490051	6,820178962	7,22881869	6,942514505	6,321928095
STMN2	0	0	0	2,321928095	2,321928095	3,807354922
STMN3	6,87036472	6,965784285	7,209453366	7,693486957	7,348728154	7,209453366
STMN4	0	0	0	1	1,584962501	2
STOM	8,011227255	7,95419631	8,098032083	7,727920455	7,451211112	6,965784285
STOML1	3,321928095	3,321928095	3,807354922	4,523561956	4,247927513	4,95419631
STOML2	6,977279923	6,942514505	6,832890014	7,076815597	7,17990909	7,098032083
STOML3	0	0	0	0	0	0
STON1	4,169925001	3,906890596	3,700439718	4,087462841	4,95419631	4,321928095
STON1-GTF2A1L	0	0	0	0	0	0
STON2	0	0	1	0	0	0
STOX1	0	0	1	3,807354922	1,584962501	3,169925001
STOX2	3,459431619	3	2,807354922	5	5,285402219	5,95419631
STRA6	0	0	0	0	0	0
STRA8	0	0	0	0	0	0
STRADA	5,129283017	5,426264755	6	7,554588852	7,022367813	8,189824559
STRADB	4,169925001	4,169925001	4,857980995	2,807354922	3	5,169925001
STRAP	8,487840034	8,491853096	8,339850003	8,599912842	8,584962501	8,531381461
STRBP	7,383704292	7,417852515	7,392317423	8,103287808	7,832890014	8,174925683
STRC	0	1	0	0	0	0
STRN	7,965784285	7,665335917	7,714245518	7,266786541	7,451211112	7,491853096
STRN3	7,491853096	7,434628228	7,426264755	8,383704292	8,011227255	8,503825738
STRN4	4,906890596	4,906890596	4,459431619	3,807354922	5,169925001	3,807354922
STS	4,247927513	3,169925001	3,807354922	3,321928095	4,459431619	3,169925001
STT3A	7,54689446	7,607330314	7,6794801	7,693486957	7,768184325	7,409390936
STT3B	8,791162889	8,73470962	8,668884984	8,519636253	8,447083226	8,271463028
STUB1	5,807354922	6,459431619	6,491853096	6,321928095	6,918863237	5,169925001
STX10	6,14974712	6,06608919	6,189824559	5,523561956	5,64385619	5,169925001
STX11	7,108524457	7	6,906890596	3,807354922	4,64385619	4,64385619
STX12	7,348728154	7,076815597	7,14974712	6,62935662	6,700439718	6,62935662
STX16	7,672425342	7,636624621	7,383704292	8,294620749	8,194756854	8,348728154
STX16-NPEPL1	1,584962501	1,584962501	0	0	0	0
STX17	6,584962501	6,930737338	6,807354922	6,768184325	6,741466986	6,820178962
STX18	5,247927513	5,459431619	5	5,614709844	5,781359714	4,64385619
STX19	0	0	0	1	1,584962501	0
STX1A	1	1	0	2,321928095	0	0
STX1B	0	0	0	1	0	2
STX2	6,247927513	5,882643049	5,977279923	5,700439718	5,64385619	6,321928095
STX3	6,426264755	6,584962501	6,266786541	5	5,781359714	5,169925001
STX4	7,21916852	7,607330314	7,592457037	6,930737338	7,108524457	6,930737338
STX5	4,754887502	4,700439718	4,754887502	4,857980995	4,95419631	4,321928095
STX6	7,50779464	7,417852515	7,303780748	7,098032083	7,209453366	7,442943496
STX7	8,797661526	8,622051819	8,988684687	7,658211483	7,807354922	7,994353437
STX8	5,882643049	6,044394119	5,781359714	5,459431619	5,554588852	5,357552005
STXBP1	3,906890596	3,321928095	2,584962501	3,321928095	3	2
STXBP2	3,584962501	3,321928095	3,584962501	3,321928095	3,700439718	2
STXBP3	7,714245518	7,562242424	7,50779464	7,247927513	7,366322214	7,312882955
STXBP4	4	4,523561956	4,459431619	4,523561956	3	0
STXBP5	7,475733431	7,375039431	7,400879436	7,169925001	7,159871337	7,491853096
STXBP5L	0	0	1	0	1,584962501	0
STXBP6	3	3,321928095	4,459431619	6	6,375039431	6,930737338
STYK1	0	1	2	1	1,584962501	0
STYX	7,592457037	7,539158811	7,74819285	7,459431619	7,658211483	7,442943496
STYXL1	5,807354922	5,807354922	5,857980995	5,754887502	5,781359714	3,807354922
SUB1	9,511752654	9,603626345	9,605479518	9,544964433	9,661778098	9,451211112
SUCLA2	5,129283017	5,321928095	5,727920455	4,857980995	4	3,807354922
SUCLG1	8,016808288	7,761551232	7,820178962	7,554588852	7,781359714	7,375039431

SUCLG2	6,857980995	7	7	6,658211483	6,409390936	4,95419631
SUCNR1	6,845490051	6,614709844	6,614709844	4,700439718	5,087462841	5,357552005
SUDS3	7,768184325	7,741466986	7,577428828	7,960001932	8,113742166	7,741466986
SUFU	6,044394119	6,285402219	5,906890596	6,129283017	5,857980995	6,169925001
SUGP1	4	4,906890596	5,247927513	4,087462841	4,807354922	5,554588852
SUGP2	7,098032083	7,21916852	7,375039431	7,672425342	7,247927513	7,562242424
SUGT1	8,413627929	8,438791853	8,266786541	7,894817763	7,832890014	7,700439718
SUGT1P3	0	2,321928095	2,807354922	0	0	0
SULF1	0	0	0	0	1,584962501	0
SULF2	6,658211483	6,658211483	6,285402219	2,807354922	5,087462841	0
SULT1A1	5,95419631	6	5,754887502	4,523561956	3	4,321928095
SULT1A2	0	0	0	0	0	2
SULT1A3	0	0	0	0	0	0
SULT1A4	0	0	0	0	0	0
SULT1B1	3,906890596	3,807354922	4,392317423	5,754887502	4,807354922	4,95419631
SULT1C2	0	1	2	1	3,321928095	3,169925001
SULT1C2P1	0	0	0	0	0	0
SULT1C3	0	0	0	0	0	0
SULT1C4	0	0	0	0	0	0
SULT1E1	0	0	0	0	0	0
SULT2A1	0	0	0	0	0	0
SULT2B1	0	0	0	0	0	0
SULT4A1	0	0	0	0	0	0
SULT6B1	0	0	0	1	0	0
SUMF1	6,977279923	7,21916852	6,965784285	7,129283017	6,965784285	7,169925001
SUMF2	5,169925001	5,781359714	5,95419631	5,882643049	5,857980995	6,06608919
SUMO1	7,491853096	7,383704292	7,400879436	7,303780748	7,614709844	7,348728154
SUMO1P1	0	0	0	0	0	0
SUMO1P3	0	0	0	0	0	0
SUMO2	7,77478706	7,50779464	7,475733431	7,303780748	7,400879436	6,930737338
SUMO3	9,477758266	9,82336724	9,577428828	7,459431619	7,781359714	7,375039431
SUMO4	4,169925001	4,087462841	4,169925001	4,700439718	3,700439718	4,321928095
SUN1	7,199672345	7,033423002	6,930737338	7,727920455	7,584962501	6,569855608
SUN2	9,463524373	9,499845887	9,4325419	9,45532722	9,649256178	8,965784285
SUN3	0	0	0	0	0	0
SUN5	0	0	0	0	0	0
SUOX	3,459431619	4,087462841	3,807354922	5,459431619	3,700439718	5,832890014
SUPT16H	9,159871337	9,011227255	9,095397023	9,527477006	9,511752654	9,511752654
SUPT3H	4,584962501	4,64385619	5	5,129283017	4,807354922	5,357552005
SUPT4H1	4,857980995	4,392317423	4,64385619	4,857980995	4,247927513	3,169925001
SUPT5H	6,672425342	6,930737338	6,781359714	7,599912842	7,491853096	7,700439718
SUPT6H	6,426264755	6,209453366	6,375039431	6,700439718	6,700439718	6,409390936
SUPT7L	5,930737338	5,64385619	6	5,523561956	5,64385619	4,321928095
SUPV3L1	5,95419631	6,129283017	5,781359714	6,820178962	6,700439718	6,700439718
SURF1	6,108524457	6,442943496	6,614709844	6,906890596	6,614709844	6,06608919
SURF2	3,700439718	4,087462841	4,087462841	4,321928095	4,459431619	2
SURF4	8,721099189	8,927777962	8,768184325	8,912889336	9,162391329	8,894817763
SURF6	7,033423002	6,977279923	7	7,62935662	7,523561956	7,721099189
SUSD1	5,247927513	5,247927513	5,459431619	3,321928095	3	3,807354922
SUSD2	0	0	0	0	1,584962501	2
SUSD3	6,087462841	6,06608919	6,189824559	6,977279923	6,741466986	6,754887502
SUSD4	0	1	0	2,807354922	0	2
SUSD5	0	0	0	1	0	0
SUV39H1	1,584962501	1,584962501	1	2,321928095	0	0
SUV39H2	1	3,321928095	3,584962501	0	1,584962501	0
SUZ12	9,154818109	9,136991112	9,276124405	9,301496195	9,319672121	9,259743264
SV2A	2,584962501	1	1	0	2,321928095	3,169925001
SV2B	1	1	1,584962501	2,807354922	3	5,169925001

SV2C	1	0	1	1	0	0
SVEP1	1,584962501	2,321928095	1	5,459431619	3,700439718	6,491853096
SVIL	5,807354922	5,247927513	5,209453366	5,357552005	5,169925001	3,169925001
SVIP	8,174925683	8,257387843	8,422064766	8,451211112	8,581200582	8,108524457
SVOP	0	0	0	0	0	0
SVOPL	0	0	0	0	0	0
SWAP70	8,159871337	7,813781191	8,033423002	7,930737338	7,942514505	8,189824559
SWI5	3,321928095	4,392317423	3,807354922	5	4	3,807354922
SWSAP1	3,321928095	3,584962501	3,321928095	4,523561956	3,321928095	3,169925001
SWT1	5,357552005	5,044394119	5,129283017	3,807354922	5,392317423	5,357552005
SYAP1	7,636624621	7,658211483	7,554588852	7,459431619	7,768184325	7,375039431
SYBU	2,321928095	0	1,584962501	1	0	2
SYCE1	0	0	0	0	0	0
SYCE1L	0	0	2	0	0	0
SYCE2	0	0	0	1	0	3,169925001
SYCE3	0	0	0	0	1,584962501	0
SYCN	0	0	0	0	0	0
SYCP1	1,584962501	2,321928095	1	2,807354922	0	4,321928095
SYCP2	4,64385619	4,857980995	5,044394119	6,06608919	5,64385619	6,569855608
SYCP2L	2,807354922	2,321928095	2,584962501	2,321928095	3,321928095	0
SYCP3	1,584962501	1,584962501	2	2,321928095	0	2
SYDE1	0	0	0	0	0	0
SYDE2	1,584962501	3,321928095	3,169925001	4,087462841	4	0
SYF2	9,184875343	9,167418146	9,312882955	9,836050355	9,878050913	9,761551232
SYK	7,857980995	7,754887502	7,87036472	5,882643049	6,129283017	4,64385619
SYMPK	6,409390936	6,807354922	7,348728154	7,475733431	7,50779464	7,169925001
SYN1	0	0	0	0	0	0
SYN2	0	0	0	0	0	0
SYN3	0	0	0	0	0	0
SYNC	2,321928095	2,584962501	3,321928095	4,087462841	5,169925001	5,700439718
SYNCRIP	10,07815081	9,961449694	9,847057346	9,581200582	9,533329732	9,426264755
SYNDIG1	0	0	0	0	0	0
SYNDIG1L	0	0	0	0	0	0
SYNE1	9,169925001	9,108524457	9,541096615	8,994353437	8,842350343	8,724513853
SYNE2	10,73386272	10,54689446	10,9505559	10,74651432	10,66533592	10,89708913
SYNGAP1	2,807354922	3,321928095	4,087462841	4,857980995	3,700439718	3,169925001
SYNGR1	1	1	2	1	0	0
SYNGR2	9,426264755	9,592457037	9,818582177	8,751544059	9,033423002	8,675957033
SYNGR3	1,584962501	1,584962501	1,584962501	0	1,584962501	0
SYNGR4	0	0	0	0	0	0
SYNJ1	7,21916852	7,129283017	7,199672345	6,977279923	6,942514505	6,700439718
SYNJ2	6,658211483	6,672425342	6,807354922	6,882643049	7,159871337	7,098032083
SYNJ2BP	6,832890014	7,011227255	7,022367813	6,977279923	7,022367813	7,098032083
SYNJ2BP-COX16	0	0	0	0	0	0
SYNM	5,044394119	4,169925001	5	5,357552005	5,554588852	4,95419631
SYNPO	0	2,584962501	2	1	2,321928095	0
SYNPO2	3,584962501	3,169925001	2,584962501	6,50779464	5,087462841	6,820178962
SYNPO2L	0	0	0	0	0	0
SYNPR	0	1,584962501	0	0	1,584962501	2
SYNRG	9,025139562	9,17990909	9,216745858	9,840777924	9,878050913	9,917372079
SYN	1,584962501	0	0	4,087462841	3,700439718	0
SYPL1	7,988684687	7,977279923	7,864186145	7,577428828	7,721099189	7,169925001
SYPL2	0	0	0	0	0	0
SYS1	7,499845887	7,761551232	7,851749041	6,768184325	7,266786541	6,700439718
SYS1-DBNDD2	0	0	0	0	0	0
SYT1	1,584962501	0	0	2,321928095	1,584962501	3,169925001
SYT10	0	0	0	1	0	0
SYT11	6,375039431	6,266786541	6,303780748	6,554588852	6,409390936	6,06608919

SYT12	1	0	0	0	2,321928095	0
SYT13	0	0	0	0	0	0
SYT14	1,584962501	0	0	0	2,321928095	3,807354922
SYT15	0	0	0	0	0	0
SYT16	1,584962501	1	0	4,087462841	4	5,554588852
SYT17	2,321928095	0	0	0	3,700439718	3,169925001
SYT2	0	0	0	0	0	2
SYT3	0	0	0	1	0	0
SYT4	0	0	0	0	0	0
SYT5	0	0	0	0	1,584962501	3,169925001
SYT6	1	0	1	1	0	2
SYT7	0	0	0	0	0	0
SYT8	0	0	0	0	0	0
SYT9	0	0	0	0	0	0
SYTL1	4,64385619	3,807354922	3,906890596	2,321928095	4,64385619	3,169925001
SYTL2	7,238404739	7,357552005	7,022367813	8,422064766	8,276124405	8,129283017
SYTL3	7,139551352	7,238404739	7,209453366	7,491853096	7,721099189	6,754887502
SYTL4	0	0	0	0	1,584962501	2
SYTL5	0	0	0	0	0	0
SYVN1	6,894817763	6,754887502	6,64385619	6,794415866	6,321928095	5,357552005
SZT2	5,357552005	5,321928095	4,857980995	5,754887502	5,930737338	6,321928095
TAAR1	0	0	0	0	0	0
TAAR2	0	0	0	0	0	0
TAAR5	0	0	0	0	0	0
TAAR6	0	0	0	0	0	0
TAAR8	0	0	0	0	0	0
TAAR9	0	0	0	0	0	0
TAB1	5,357552005	5,169925001	5,754887502	5,832890014	5,930737338	6,06608919
TAB2	9,025139562	8,915879379	9,030667136	9,116343961	9,312882955	9,17990909
TAB3	6,285402219	6,357552005	6,087462841	6,321928095	5,857980995	6,247927513
TAC1	0	0	0	0	0	0
TAC3	0	0	0	4,857980995	2,321928095	5,169925001
TAC4	0	0	0	0	0	0
TACC1	9,192292814	9,187352073	9,252665432	9,022367813	8,962896005	8,826548487
TACC2	1	0	0	2,321928095	2,321928095	3,807354922
TACC3	6,894817763	6,754887502	6,714245518	7,247927513	6,942514505	6,409390936
TACO1	4,906890596	5,129283017	4,754887502	4,523561956	5,087462841	4,64385619
TACR1	0	1,584962501	0	0	0	0
TACR2	0	0	0	0	0	0
TACR3	0	0	1	0	0	0
TACSTD2	3	3,321928095	3,169925001	1	0	0
TADA1	6,832890014	6,754887502	6,741466986	6,845490051	7,108524457	6,247927513
TADA2A	6,475733431	6,442943496	6,375039431	6,22881869	6,285402219	5,554588852
TADA2B	6,247927513	6,169925001	6,321928095	6,459431619	6,584962501	6,754887502
TADA3	5,700439718	6,108524457	5,857980995	5,832890014	5,781359714	5,554588852
TAF1	8,375039431	8,483815777	8,459431619	8,731319031	8,86727874	8,73470962
TAF10	5,672425342	5,614709844	6,044394119	6	6,50779464	6,169925001
TAF11	7,011227255	6,988684687	7,06608919	7,169925001	7,285402219	7,129283017
TAF12	6,569855608	6,554588852	6,672425342	6,50779464	6,584962501	6,62935662
TAF13	6,942514505	6,832890014	7,033423002	6,22881869	6,247927513	6,700439718
TAF15	7,672425342	7,707359132	7,87036472	8,299208018	7,672425342	8,049848549
TAF1A	3,807354922	3	3,584962501	3,321928095	4,64385619	2
TAF1B	6,339850003	5,672425342	5,857980995	5	5,087462841	4,64385619
TAF1C	5,727920455	5,727920455	5,426264755	6,129283017	6,247927513	5,554588852
TAF1D	8,897845456	8,836050355	8,797661526	9,900866808	9,759888183	9,884170519
TAF1L	2,321928095	2,584962501	2,807354922	1	2,321928095	4,321928095
TAF2	7,098032083	6,930737338	6,882643049	7,554588852	7,569855608	7,46760555
TAF3	7,971543554	8,055282436	7,948367232	8,321928095	8,321928095	8,290018847

TAF4	6,321928095	6,087462841	5,781359714	6,658211483	6,459431619	5,832890014
TAF4B	5,882643049	5,247927513	5,754887502	6,50779464	6,189824559	6,321928095
TAF5	5,169925001	5,129283017	4,857980995	3,321928095	4,807354922	0
TAF5L	6,658211483	6,266786541	6,339850003	6,50779464	6,285402219	6,169925001
TAF6	4,392317423	5,169925001	5	5,930737338	5,169925001	5,832890014
TAF6L	2,321928095	1,584962501	2,807354922	2,807354922	0	0
TAF7	8,962896005	8,991521846	8,876516947	9,216745858	9,084808388	9,019590728
TAF7L	0	0	0	1	0	2
TAF8	6,459431619	6,754887502	6,832890014	6,62935662	6,857980995	6,882643049
TAF9	7,459431619	7,159871337	6,918863237	6,375039431	6,409390936	6,06608919
TAF9B	5,169925001	5,357552005	5,169925001	5,614709844	5,64385619	5,554588852
TAGAP	9,116343961	8,977279923	8,965784285	9,350939182	9,415741768	9,164906927
TAGLN	3,584962501	3,321928095	3,906890596	4,087462841	4,247927513	4,64385619
TAGLN2	9,172427509	9,436711542	9,828136484	8,86727874	9,483815777	8,622051819
TAGLN3	0	0	0	0	0	0
TAL1	3	2,807354922	3,169925001	2,807354922	1,584962501	0
TAL2	0	0	0	1	0	0
TALDO1	9,243173983	9,226412193	9,339850003	7,076815597	7,475733431	7,375039431
TAMM41	5,357552005	5,614709844	6,22881869	6,06608919	6,539158811	4,321928095
TANC1	1,584962501	1,584962501	2	0	2,321928095	0
TANC2	6,22881869	6,06608919	6,129283017	5,523561956	5,554588852	4,321928095
TANK	8,262094845	8,118941073	8,22881869	8,758223215	8,888743249	9,204571144
TAOK1	9,583082768	9,596189756	9,438791853	9,434628228	9,108524457	9,375039431
TAOK2	4,754887502	4,584962501	5,169925001	5,129283017	5,285402219	5,357552005
TAOK3	9,981567282	9,917372079	10,02513956	9,636624621	9,605479518	9,625708843
TAP1	9,164906927	9,152284842	9,337621902	8,515699838	8,693486957	8,584962501
TAP2	8,921840937	8,864186145	9,033423002	7,459431619	7,876516947	7,055282436
TAPBP	10,45121111	10,57837269	10,73386272	9,862637358	9,99859043	9,558420713
TAPBPL	5,285402219	5,087462841	5,614709844	5,754887502	5,781359714	5,169925001
TAPT1	6,741466986	6,754887502	7	7,426264755	7,383704292	7,276124405
TARBP1	5,882643049	6,044394119	5,523561956	6,129283017	6,409390936	7,129283017
TARBP2	4,857980995	4,523561956	5,392317423	5	2,321928095	5,357552005
TARDBP	7,417852515	7,483815777	7,672425342	8,654636029	8,285402219	8,665335917
TARM1	0	0	0	0	0	0
TARS	8,654636029	8,475733431	8,611024797	8,700439718	8,651051691	9,019590728
TARS2	5,169925001	4,169925001	5,209453366	6	5,64385619	3,169925001
TARSL2	6,22881869	6,285402219	6,22881869	6,741466986	6,539158811	6,06608919
TAS1R1	0	0	0	0	0	0
TAS1R2	0	0	0	0	0	0
TAS1R3	1	0	0	0	0	2
TAS2R1	0	0	0	0	0	0
TAS2R10	0	0	0	0	0	0
TAS2R13	0	0	0	0	0	0
TAS2R14	3,700439718	3,906890596	2,584962501	4,087462841	3,700439718	4,321928095
TAS2R16	0	0	0	0	0	0
TAS2R19	0	0	0	0	0	2
TAS2R20	0	0	0	0	0	0
TAS2R3	0	0	0	0	0	0
TAS2R30	2,807354922	3	4,247927513	2,807354922	3	0
TAS2R31	0	0	0	0	0	0
TAS2R38	0	0	0	0	0	0
TAS2R39	0	0	0	0	0	0
TAS2R4	4,523561956	4,087462841	5,247927513	7,339850003	6,882643049	7,562242424
TAS2R40	0	0	0	0	0	0
TAS2R41	0	0	0	0	0	0
TAS2R42	0	0	0	0	0	0
TAS2R43	0	0	0	0	0	0
TAS2R46	0	0	0	0	0	0

TAS2R5	0	0	0	0	0	0
TAS2R50	0	0	0	0	0	0
TAS2R60	0	0	0	0	0	0
TAS2R7	0	0	0	0	0	0
TAS2R8	0	0	0	0	0	0
TAS2R9	0	0	0	0	0	0
TASP1	5,209453366	4,857980995	5,247927513	5,129283017	4,459431619	4,64385619
TAT	0	0	0	0	0	2
TATDN1	7,098032083	7,129283017	6,988684687	7,864186145	7,832890014	7,539158811
TATDN2	6,022367813	6,22881869	6,321928095	6,554588852	6,768184325	6,247927513
TATDN3	6,459431619	6,108524457	5,977279923	5,247927513	5,459431619	4,95419631
TAX1BP1	10,19844504	10,09275714	10,01959073	9,924812504	9,850186838	9,884170519
TAX1BP3	5,129283017	4,95419631	4,857980995	2,321928095	0	2
TAZ	5,882643049	5,614709844	5,727920455	6,584962501	6,247927513	6,409390936
TBC1D1	7,303780748	6,988684687	7,139551352	7	6,321928095	7,011227255
TBC1D10A	3,700439718	5,169925001	4,700439718	5,459431619	5,169925001	3,807354922
TBC1D10B	4,392317423	4,64385619	4,584962501	4,857980995	4,64385619	3,807354922
TBC1D10C	7,209453366	7,636624621	7,882643049	8,011227255	8,30833903	7,700439718
TBC1D12	4,754887502	4,523561956	4,906890596	2,807354922	0	0
TBC1D13	5,727920455	5,930737338	5,807354922	6	5,930737338	5,700439718
TBC1D14	7,022367813	7,011227255	6,781359714	7,169925001	6,918863237	6,700439718
TBC1D15	8,558420713	8,379378367	8,554588852	9,894817763	9,754887502	9,911391988
TBC1D16	2,807354922	3	3	2,807354922	1,584962501	2
TBC1D17	3,321928095	4,700439718	5,169925001	4,700439718	4,807354922	3,169925001
TBC1D19	3,807354922	3,700439718	3,700439718	4,700439718	4	3,807354922
TBC1D2	6	5,832890014	5,754887502	0	0	0
TBC1D20	6,321928095	6,475733431	6,50779464	5,614709844	6,044394119	4,321928095
TBC1D21	0	0	0	0	0	0
TBC1D22A	7,209453366	6,658211483	7,303780748	6,977279923	7,348728154	7,055282436
TBC1D22B	4,906890596	4,64385619	4,392317423	3,807354922	4,95419631	4,95419631
TBC1D23	7,209453366	7,169925001	7,033423002	7,189824559	7,348728154	6,882643049
TBC1D24	6,392317423	6,22881869	6,523561956	5,459431619	5,459431619	4,321928095
TBC1D25	5,044394119	5	4,857980995	4,321928095	4,247927513	2
TBC1D26	0	0	0	0	0	0
TBC1D28	0	0	0	0	0	0
TBC1D29	0	0	0	0	0	0
TBC1D2B	7,076815597	6,845490051	7,321928095	7,375039431	7,539158811	8,108524457
TBC1D3	0	0	0	0	0	0
TBC1D30	2,807354922	3,169925001	3,321928095	2,321928095	3,321928095	3,807354922
TBC1D3B	0	0	0	0	0	0
TBC1D3C	0	0	0	0	0	0
TBC1D3F	0	0	0	0	0	0
TBC1D3G	0	0	0	0	0	0
TBC1D3H	0	0	0	0	0	0
TBC1D3P1-DHX40P1	0	0	0	0	0	0
TBC1D3P2	0	0	0	0	0	0
TBC1D3P5	0	0	0	0	0	0
TBC1D4	8,022367813	8	8,049848549	8,741466986	8,252665432	8,807354922
TBC1D5	8,299208018	8,076815597	8,14974712	8,285402219	8,174925683	8,087462841
TBC1D7	4,247927513	3,906890596	3,906890596	3,807354922	3,700439718	3,169925001
TBC1D8	4	3,321928095	3	2,807354922	3	3,169925001
TBC1D8B	3,906890596	3,584962501	3,807354922	2,321928095	3,321928095	3,169925001
TBC1D9	6,14974712	5,727920455	5,95419631	4,321928095	4,64385619	3,169925001
TBC1D9B	7	6,686500527	6,906890596	5,930737338	5,977279923	5,832890014
TBCA	9,523561956	9,586839788	9,342074668	9,802516365	9,884170519	9,853309555
TBCB	6,285402219	6,169925001	6,044394119	5,129283017	5,087462841	3,807354922
TBCC	6,686500527	7,044394119	7,348728154	7,971543554	7,62935662	7,46760555
TBCCD1	4,247927513	4,584962501	5,129283017	3,321928095	5,169925001	5,357552005

TBCD	6,700439718	6,727920455	7,139551352	7,971543554	7,832890014	7,592457037
TBCE	3,807354922	4	4,523561956	5,64385619	5,426264755	6,209453366
TBCEL	5,209453366	5,129283017	5,247927513	5,832890014	5,781359714	6,569855608
TBCK	5,807354922	5,614709844	4,906890596	6,266786541	6,539158811	6,820178962
TBK1	7,303780748	7,108524457	7,21916852	6,882643049	7,266786541	7,312882955
TBKBP1	4,523561956	4,459431619	5,129283017	3,807354922	5,169925001	4,64385619
TBL1X	8,330916878	8,299208018	8,584962501	8,554588852	8,257387843	8,108524457
TBL1XR1	8,686500527	8,519636253	8,764871591	8,918863237	8,73809226	8,836050355
TBL1Y	0	0	0	0	0	0
TBL2	5,584962501	5,95419631	5,614709844	6,06608919	5,64385619	6,169925001
TBL3	2,807354922	1,584962501	2,807354922	0	0	3,169925001
TBP	6,392317423	6,442943496	6,64385619	7,129283017	6,857980995	7,098032083
TBPL1	6,129283017	6,285402219	6,06608919	6,820178962	6,614709844	6,820178962
TBPL2	0	0	0	0	0	0
TBR1	0	0	0	1	0	0
TBRG1	8,247927513	8,413627929	8,290018847	8,647458426	8,413627929	8,463524373
TBRG4	5,357552005	5,857980995	6,189824559	6,266786541	6,459431619	6,754887502
TBX1	0	0	0	0	0	0
TBX10	0	0	0	0	0	0
TBX15	0	0	0	0	0	0
TBX18	0	0	0	1	1,584962501	2
TBX19	4	4,392317423	3,169925001	6,06608919	5,977279923	6,06608919
TBX2	1	0	0	1	0	0
TBX20	0	0	0	0	0	0
TBX21	6,672425342	6,686500527	6,820178962	7,076815597	7,794415866	7,098032083
TBX22	0	0	0	0	0	0
TBX3	0	0	0	0	0	0
TBX4	0	0	0	0	0	0
TBX5	0	0	0	0	0	0
TBX6	0	0	0	0	2,321928095	0
TBXA2R	0	1	3	0	1,584962501	0
TBXAS1	7,375039431	7,321928095	7,475733431	2,321928095	4	3,807354922
TC2N	8,603626345	8,614709844	8,791162889	9,131856961	9,025139562	8,915879379
TCAM1P	0	0	0	0	0	3,169925001
TCAP	1	1,584962501	3,321928095	3,807354922	3,321928095	4,321928095
TCEA1	7,21916852	7,21916852	6,584962501	7,64385619	7,569855608	7,761551232
TCEA2	3,584962501	3	3,807354922	4,087462841	3	4,95419631
TCEA3	4,169925001	4,700439718	4,169925001	4,857980995	4	5,832890014
TCEAL1	5,523561956	5,672425342	5,614709844	5,754887502	5,64385619	5,700439718
TCEAL2	0	0	0	0	0	0
TCEAL3	6,22881869	5,523561956	5,95419631	6	6,459431619	5,357552005
TCEAL4	6,459431619	5,977279923	5,700439718	6,129283017	5,392317423	6,169925001
TCEAL5	0	0	0	0	0	0
TCEAL6	0	0	0	0	0	0
TCEAL7	0	0	0	0	0	0
TCEAL8	7,266786541	7,247927513	7,139551352	8,159871337	7,982993575	8,033423002
TCEANC	5,523561956	5,459431619	5,523561956	6,129283017	5,781359714	6,06608919
TCEANC2	6	5,614709844	5,554588852	6,409390936	6,129283017	5,832890014
TCERG1	9,342074668	9,366322214	9,413627929	10,22761594	9,918863237	10,37503943
TCERG1L	0	0	0	0	0	0
TCF12	6,942514505	6,807354922	6,614709844	7,426264755	7,417852515	7,491853096
TCF15	0	0	0	0	0	0
TCF19	4	3,584962501	3,584962501	1	3,700439718	0
TCF20	7,108524457	7,442943496	7,665335917	7,442943496	7,366322214	7,562242424
TCF21	0	0	0	0	0	0
TCF23	0	0	0	0	0	0
TCF24	0	1	0	1	0	2
TCF25	9,30833903	9,221587121	9,50779464	9,174925683	9,192292814	8,647458426

TCF3	7,417852515	7,515699838	7,409390936	7,375039431	7,348728154	7,348728154
TCF4	8,864186145	8,6794801	8,965784285	8,804131021	8,794415866	8,791162889
TCF7	8,033423002	8,204571144	8,562242424	9,493855449	9,519636253	9,28077077
TCF7L1	0	1	0	0	0	0
TCF7L2	5,700439718	5,554588852	5,882643049	6,06608919	5,392317423	6,700439718
TCFL5	4,95419631	5,247927513	4,906890596	5	5,392317423	4,64385619
TCHH	0	0	0	0	0	0
TCHHL1	0	0	0	0	0	2
TCHP	6,044394119	5,727920455	5,807354922	5,614709844	6,087462841	6,169925001
TCIRG1	5,129283017	5,087462841	5	3,321928095	4,459431619	0
TCL1A	6,64385619	6,807354922	7,22881869	6,50779464	6,614709844	6,06608919
TCL1B	0	0	0	0	0	0
TCL6	2,807354922	2,807354922	2,584962501	3,807354922	3	0
TCN1	2,321928095	2,807354922	1,584962501	0	1,584962501	0
TCN2	4,95419631	4,64385619	4,700439718	0	3	3,169925001
TCOF1	6,977279923	7,303780748	7,312882955	7,599912842	7,658211483	7,894817763
TCP1	8,124121312	8,238404739	8,06608919	8,487840034	8,276124405	8,392317423
TCP10	0	0	0	0	0	0
TCP10L	0	0	1	0	0	0
TCP10L2	0	0	0	4,857980995	3	4,64385619
TCP11	0	0	0	0	0	0
TCP11L1	3,700439718	4	2,807354922	3,321928095	4	4,321928095
TCP11L2	6,189824559	5,672425342	6,475733431	7,247927513	7,044394119	6,882643049
TCTA	4,700439718	5,169925001	4,700439718	5,523561956	4,64385619	4,64385619
TCTE1	0	1	0	4,523561956	4	4,95419631
TCTE3	1	1,584962501	2,807354922	5,459431619	4,247927513	5,169925001
TCTEX1D1	0	0	0	0	0	0
TCTEX1D2	4,700439718	5	3,906890596	5,247927513	5,169925001	5,554588852
TCTEX1D4	0	0	0	0	0	0
TCTN1	3,906890596	3,807354922	4,584962501	4,700439718	2,321928095	3,169925001
TCTN2	2,807354922	3,321928095	3,584962501	1	4	0
TCTN3	5,169925001	5,523561956	5,459431619	5,930737338	6,129283017	5,357552005
TDG	7,098032083	7,076815597	6,918863237	7,392317423	7,022367813	7,312882955
TDGF1	0	0	0	0	0	0
TDGF1P3	0	0	0	1	3	0
TDH	0	0	0	0	0	0
TDO2	0	1	1	0	0	0
TDP1	6,459431619	6,321928095	6,475733431	7,022367813	7,17990909	6,965784285
TDP2	7,475733431	7,276124405	7,409390936	7,339850003	7,17990909	7,169925001
TDRD1	0	0	0	3,321928095	3,321928095	5,169925001
TDRD10	0	0	0	0	0	0
TDRD12	1,584962501	0	2	4,321928095	3,321928095	4,64385619
TDRD3	6,459431619	5,807354922	6,189824559	5,754887502	5,857980995	6,247927513
TDRD5	0	0	0	0	0	0
TDRD6	0	0	2,807354922	0	0	0
TDRD7	5,614709844	5,554588852	5,807354922	4,857980995	5,169925001	5,357552005
TDRD9	2,807354922	1	0	0	0	0
TDRG1	0	0	0	0	0	0
TDRKH	3,807354922	4,321928095	4,584962501	0	3,700439718	0
TEAD1	1	0	1	1	0	2
TEAD2	1	1	0	0	0	0
TEAD3	1	0	1,584962501	2,321928095	2,321928095	3,169925001
TEAD4	0	0	0	0	0	0
TEC	2,584962501	3,169925001	2	2,321928095	0	2
TECPR1	6,129283017	5,95419631	6,044394119	7,129283017	6,614709844	6,06608919
TECPR2	5,491853096	5,807354922	5,523561956	5,459431619	5,977279923	6,06608919
TECR	2,584962501	2,321928095	3,169925001	4,321928095	4,459431619	2
TECRL	0	1	1,584962501	2,321928095	1,584962501	4,321928095

TECTA	0	0	0	1	0	0
TECTB	0	0	0	0	1,584962501	0
TEDDM1	0	0	0	0	0	0
TEF	0	3,169925001	3,584962501	2,807354922	3	0
TEFM	5,044394119	5	5,129283017	5,832890014	4,807354922	5,357552005
TEK	0	0	0	0	0	2
TEKT1	0	0	0	0	0	4,321928095
TEKT2	0	0	0	0	0	0
TEKT3	0	0	0	0	0	0
TEKT4	0	0	0	0	0	0
TEKT4P2	0	0	0	0	0	0
TEKT5	0	0	0	2,321928095	0	0
TELO2	3,321928095	2,807354922	3,321928095	0	0	0
TEN1	0	0	0	0	0	0
TEN1-CDK3	0	0	0	0	0	0
TEP1	7,06608919	6,942514505	7,139551352	6,50779464	6,50779464	5,554588852
TEPP	0	0	0	0	0	0
TERC	0	0	0	1	1,584962501	0
TERF1	6,87036472	6,832890014	6,727920455	6,845490051	6,409390936	7,276124405
TERF2	6,686500527	7,022367813	6,285402219	7,700439718	7,614709844	7,741466986
TERF2IP	9,729620744	9,77148947	9,74819285	10,20212382	10,07146236	10,11243951
TERT	0	0	0	0	0	0
TES	8,936637939	9,016808288	8,906890596	8,764871591	9,154818109	8,87036472
TESC	4,523561956	4,700439718	5	5	4,807354922	6,321928095
TESK1	4,584962501	3	3,700439718	2,321928095	2,321928095	0
TESK2	5,209453366	4,321928095	4,754887502	4,700439718	4,95419631	3,169925001
TET1	3,459431619	3,700439718	3,169925001	2,807354922	4,459431619	4,64385619
TET2	8,103287808	8,082149041	8,22881869	7,531381461	7,366322214	7,375039431
TET3	7,159871337	7,348728154	7,357552005	5,832890014	6,321928095	5,554588852
TEX10	5,727920455	5,64385619	5,727920455	6,409390936	6,409390936	6,965784285
TEX101	0	3	1	1	0	2
TEX11	0	0	0	0	0	0
TEX12	1	0	0	0	0	0
TEX13A	0	0	0	0	0	0
TEX13B	0	0	0	0	0	0
TEX14	1,584962501	0	2	0	0	0
TEX15	1	3	1,584962501	3,807354922	4,247927513	5,169925001
TEX19	0	0	0	0	0	2
TEX2	5,357552005	5,584962501	5,392317423	3,321928095	3,700439718	4,321928095
TEX21P	0	1	0	4,700439718	5,285402219	5,95419631
TEX22	0	0	0	2,321928095	0	0
TEX26	0	0	0	0	0	0
TEX26-AS1	0	0	2	1	0	3,169925001
TEX261	6,022367813	6,108524457	5,95419631	6,794415866	6,942514505	5,95419631
TEX264	4,754887502	4,754887502	3,906890596	3,321928095	4,807354922	3,169925001
TEX28	0	0	0	0	0	0
TEX29	1,584962501	2,321928095	2	5,754887502	4,807354922	5,700439718
TEX30	5,95419631	5,781359714	5,977279923	4,523561956	4,64385619	2
TEX33	0	0	0	0	0	0
TEX9	4,700439718	3,584962501	3,169925001	5,930737338	5,554588852	6,321928095
TF	3	2,584962501	2	5,523561956	5,087462841	6,06608919
TFAM	8,618385502	8,511752654	8,554588852	8,962896005	9,06608919	9,209453366
TFAMP1	0	0	0	2,321928095	0	2
TFAP2A	0	1,584962501	1	4,523561956	3	0
TFAP2B	0	0	1	0	0	0
TFAP2C	0	0	0	0	0	0
TFAP2D	0	0	0	3,321928095	3	3,169925001
TFAP2E	0	2,807354922	1	1	3	0

TFAP4	5,930737338	5,857980995	6,129283017	6,321928095	6,539158811	6,569855608
TFB1M	5,523561956	5,523561956	5,491853096	6,22881869	5,727920455	6,06608919
TFB2M	5,129283017	4,95419631	4,754887502	4,321928095	4,807354922	5,357552005
TFCP2	7,636624621	8	7,491853096	7,727920455	7,982993575	7,64385619
TFCP2L1	1,584962501	2,321928095	1	0	0	0
TFDP1	6,894817763	7,129283017	6,988684687	6,794415866	6,832890014	6,820178962
TFDP2	7,357552005	7,17990909	7,491853096	7,658211483	7,832890014	7,539158811
TFDP3	0	0	0	0	0	0
TFE3	8,139551352	8,483815777	8,647458426	8,422064766	8,426264755	8,447083226
TFEB	4,857980995	5,044394119	5,169925001	3,807354922	5,285402219	4,95419631
TFEC	8,997179481	8,891783703	8,87036472	6,95419631	6,882643049	7,348728154
TFF1	0	0	0	0	0	0
TFF2	0	0	0	0	0	0
TFF3	0	0	0	0	0	0
TFG	8,28077077	8,139551352	8,370687407	8,554588852	8,129283017	8,622051819
TFIP11	5,209453366	5,459431619	5,523561956	6,266786541	5,087462841	6,169925001
TFPI	3,700439718	3,807354922	3,169925001	2,807354922	2,321928095	2
TFPI2	2,807354922	2,584962501	2	0	4,64385619	0
TFPT	5,044394119	5,459431619	5,523561956	4,700439718	5,857980995	0
TFR2	2,584962501	2,807354922	1,584962501	2,807354922	4	2
TFRC	7,721099189	7,607330314	7,700439718	6,129283017	6,584962501	5,554588852
TG	0	1	0	3,321928095	3	2
TGDS	5,554588852	4,906890596	4,523561956	5,614709844	4,459431619	5,95419631
TGFA	5	4,584962501	4,64385619	3,321928095	4,247927513	3,807354922
TGFB1	5,129283017	5,584962501	6,044394119	5,247927513	5,285402219	4,321928095
TGFB11	0	0	0	0	0	0
TGFB2	0	0	1	0	0	2
TGFB3	1	0	1,584962501	1	0	0
TGFB1	10,04028972	10,00842862	10,08878824	4,087462841	4,807354922	0
TGFB11	8,28077077	8,108524457	8,118941073	7,409390936	7,64385619	6,882643049
TGFB12	8,531381461	8,475733431	8,370687407	8,810571635	8,724513853	8,915879379
TGFB13	8,189824559	8,257387843	8,422064766	9,324180547	9,451211112	8,95419631
TGFB14	5,832890014	5,807354922	6,169925001	6,409390936	6,087462841	5,169925001
TGIF1	6,569855608	6,741466986	6,614709844	7,22881869	7	7,209453366
TGIF2	7,392317423	7,693486957	7,409390936	7,554588852	7,475733431	7,515699838
TGIF2LX	0	0	0	0	0	0
TGIF2LY	0	0	0	0	0	0
TGM1	1	0	0	0	0	0
TGM2	4,523561956	4,321928095	3,169925001	2,321928095	1,584962501	3,807354922
TGM3	0	0	0	0	0	0
TGM4	0	0	0	2,321928095	4	3,807354922
TGM5	0	0	0	0	0	0
TGM6	0	0	0	0	0	0
TGM7	0	0	0	0	0	0
TGOLN2	9,364134655	9,513727596	9,394462695	9,247927513	9,337621902	9,385862401
TGS1	7,392317423	7,50779464	7,247927513	7,826548487	8,113742166	7,813781191
TH	0	0	0	0	0	0
THADA	5,95419631	6,409390936	6,554588852	6,930737338	6,807354922	6,820178962
THAP1	6,409390936	6,523561956	6,321928095	6,409390936	6,321928095	6,62935662
THAP10	0	0	0	1	0	0
THAP11	7,569855608	7,426264755	7,276124405	7,864186145	7,768184325	7,87036472
THAP2	5,209453366	4,857980995	5	6,22881869	5,781359714	7,209453366
THAP3	3,807354922	4,087462841	4,906890596	5	5,285402219	5,169925001
THAP4	4,523561956	4,754887502	4,392317423	4,523561956	4,64385619	4,95419631
THAP5	7,845490051	7,721099189	7,50779464	8,451211112	8,463524373	8,312882955
THAP6	6,339850003	6,044394119	6,321928095	6,700439718	6,459431619	6,321928095
THAP7	4,857980995	4,584962501	4,523561956	4,523561956	5,285402219	4,64385619
THAP7-AS1	2,807354922	3,700439718	2,807354922	3,321928095	4	4,64385619

THAP8	3	3,584962501	2,584962501	0	0	0
THAP9	2,321928095	1,584962501	2,584962501	0	1,584962501	3,807354922
THBD	3,459431619	3,169925001	2	0	0	0
THBS1	8,751544059	9,033423002	9,100662339	6,409390936	6,409390936	5,554588852
THBS2	0	0	1,584962501	0	0	3,169925001
THBS3	3	2,584962501	3,700439718	3,321928095	0	2
THBS4	0	0	0	0	0	3,169925001
THEG	0	0	0	0	0	0
THEGL	0	0	0	0	0	0
THEM4	6,044394119	5,727920455	5,727920455	6,375039431	6,285402219	6,06608919
THEM5	0	0	0	0	0	0
THEMIS	7,129283017	7,076815597	7,055282436	7,754887502	7,285402219	7,247927513
THG1L	5,523561956	5,882643049	5,321928095	6,409390936	6,189824559	5,169925001
THNSL1	3,584962501	1,584962501	3,169925001	4,321928095	4,459431619	3,807354922
THNSL2	0	1,584962501	0	0	0	3,169925001
THOC1	7,247927513	7,129283017	7,17990909	7,459431619	7,417852515	7,312882955
THOC2	10,10721708	10,01262454	10,09671515	10,08878824	9,985841937	9,77148947
THOC3	4,906890596	5,169925001	4,906890596	4,700439718	4,459431619	4,321928095
THOC5	5,044394119	5,807354922	5,247927513	6	5,554588852	6,491853096
THOC6	3,584962501	3,700439718	4,247927513	0	0	0
THOC7	8,400879436	8,199672345	7,977279923	8,339850003	8,129283017	8,299208018
THOP1	4,392317423	4,857980995	4,247927513	3,807354922	4,64385619	5,169925001
THPO	0	0	0	0	0	0
THRA	6,426264755	6,672425342	6,857980995	6,768184325	6,658211483	6,569855608
THRAP3	9,48984796	9,335390355	9,485829309	9,611024797	9,645658432	9,364134655
THRB	2,807354922	2,584962501	2,584962501	4,857980995	5,087462841	4,95419631
THRSP	0	0	0	0	0	0
THSD1	0	0	0	5	0	0
THSD4	0	0	0	2,321928095	0	0
THSD7A	4,857980995	4,754887502	4	6,50779464	6,409390936	7,055282436
THSD7B	0	0	0	0	0	0
THTPA	0	0	0	0	0	0
THUMPD1	8,816983623	8,751544059	8,686500527	8,781359714	9,14974712	8,366322214
THUMPD2	5,523561956	5,832890014	5,357552005	6,129283017	5,781359714	5,700439718
THUMPD3	6,95419631	6,857980995	6,87036472	6,768184325	7	7,539158811
THY1	0	0	0	0	0	0
THYN1	6,845490051	6,807354922	7,06608919	7,599912842	7,312882955	7,209453366
TIA1	8,640244936	8,405141463	8,426264755	8,599912842	8,413627929	8,392317423
TIAF1	0	1	0	0	0	0
TIAL1	8,710806434	8,422064766	8,592457037	8,787902559	8,714245518	8,636624621
TIAM1	7,761551232	7,491853096	7,77478706	7,727920455	7,554588852	7,851749041
TIAM2	4,392317423	3,807354922	3	6,459431619	6,247927513	7,011227255
TICAM1	6,475733431	6,768184325	7,139551352	5,832890014	6,459431619	6,491853096
TICAM2	0	0	0	0	0	0
TIE1	0	0	0	0	0	0
TIFA	7,383704292	7,266786541	7,06608919	7,491853096	7,569855608	7,787902559
TIFAB	5,321928095	5,727920455	5,247927513	0	0	0
TIGD1	2,807354922	3,169925001	3	4,321928095	4,807354922	4,95419631
TIGD2	4,459431619	4,523561956	3,321928095	4,321928095	4	3,807354922
TIGD3	3	3	1	4,700439718	3,321928095	4,64385619
TIGD4	0	1	0	0	0	0
TIGD5	4,64385619	2,807354922	4	4,087462841	4,64385619	5,169925001
TIGD6	2,321928095	3,321928095	2,584962501	5,129283017	5,392317423	4,64385619
TIGD7	4,906890596	5	4,523561956	5,523561956	4,95419631	3,807354922
TIGIT	8,675957033	8,724513853	8,768184325	9,357552005	9,396604781	9,027905997
TIMD4	1,584962501	1,584962501	0	2,807354922	3,700439718	4,64385619
TIMELESS	6,044394119	5,857980995	6,06608919	5	4,247927513	4,64385619
TIMM10	5,672425342	5,930737338	5,807354922	6,266786541	6,247927513	5,357552005

TIMM13	6,807354922	6,918863237	6,658211483	7	7,139551352	6,930737338
TIMM17A	7,491853096	7,491853096	7,285402219	6,658211483	6,768184325	6,754887502
TIMM17B	4,754887502	4,584962501	4,95419631	4,523561956	5,087462841	3,807354922
TIMM21	6,584962501	6,375039431	6,247927513	7,247927513	7,139551352	7,247927513
TIMM22	5,357552005	5	5,209453366	5,700439718	5,459431619	6,409390936
TIMM23	5,807354922	5,614709844	5,807354922	5,357552005	5,554588852	6,409390936
TIMM44	5,614709844	5,554588852	5,807354922	6,375039431	5,977279923	5,700439718
TIMM50	4,523561956	4,906890596	4,169925001	5	5,169925001	4,321928095
TIMM8A	4,247927513	3,169925001	3,700439718	0	4	0
TIMM8B	7,330916878	7,426264755	7,459431619	7,169925001	7,108524457	7,539158811
TIMM9	6,303780748	6,087462841	5,977279923	7,076815597	6,807354922	7,098032083
TIMMDC1	7,693486957	7,614709844	7,6794801	8,124121312	7,982993575	8,049848549
TIMP1	6,491853096	6,459431619	6,409390936	4,087462841	4,459431619	4,95419631
TIMP2	9,182394353	9,204571144	9	5,247927513	5,554588852	5,700439718
TIMP3	3	3,807354922	3,169925001	5,357552005	4,64385619	4,95419631
TIMP4	0	0	0	0	0	0
TINAG	0	0	1	0	0	0
TINAGL1	0	0	0	0	0	0
TINF2	6,475733431	7,098032083	7,159871337	6	6,129283017	4,64385619
TIPARP	8,276124405	8,071462363	8,011227255	7,459431619	7,209453366	7,622051819
TIPARP-AS1	2,807354922	2,321928095	3,169925001	4,523561956	1,584962501	0
TIPIN	4	4,321928095	4,087462841	4,523561956	4	4,95419631
TIPRL	8,129283017	8,290018847	8,129283017	8,033423002	7,912889336	8,21916852
TIRAP	3	3,169925001	3,169925001	2,321928095	0	0
TJAP1	5,426264755	4,754887502	5,426264755	5,754887502	5,727920455	5,357552005
TJP1	1,584962501	2,584962501	1,584962501	3,321928095	4,247927513	4,64385619
TJP2	3,807354922	4,087462841	3,169925001	4,087462841	4,95419631	4,321928095
TJP3	2,321928095	1,584962501	1	0	0	0
TK1	0	1	0	0	0	0
TK2	5,357552005	5,285402219	5,129283017	2,807354922	3,700439718	3,169925001
TKT	8,864186145	9,154818109	9,413627929	7,971543554	8,21916852	8,108524457
TKTL1	1,584962501	3	1,584962501	2,321928095	1,584962501	0
TKTL2	0	0	0	0	0	0
TLCD1	0	1	0	0	0	0
TLCD2	2,807354922	2,584962501	2,807354922	4,523561956	4,64385619	5,357552005
TLE1	5,357552005	4,95419631	5,247927513	4,321928095	4,807354922	5,169925001
TLE2	2,584962501	2,807354922	1,584962501	2,321928095	0	0
TLE3	7,409390936	7,491853096	7,434628228	8,339850003	8,392317423	7,64385619
TLE4	9,226412193	9,294620749	9,283088353	9,306061689	9,479780264	9,204571144
TLE6	0	0	0	0	0	0
TLK1	8,791162889	8,948367232	8,951284715	9,233619677	9,240791332	8,903881846
TLK2	6,189824559	5,832890014	5,754887502	7,64385619	6,942514505	7,700439718
TLL1	3	3,169925001	2,584962501	5,247927513	5,554588852	6,169925001
TLL2	0	1	0	3,807354922	3,321928095	5,357552005
TLN1	9,095397023	9,038918989	9,283088353	8,471675214	8,370687407	8,366322214
TLN2	4,754887502	4	4	2,807354922	0	2
TLR1	7,357552005	7,409390936	7,400879436	6,584962501	6,321928095	6,965784285
TLR10	6,285402219	6,108524457	6,266786541	7,994353437	8,092757141	7,87036472
TLR2	7,857980995	7,942514505	7,900866808	3,321928095	4,459431619	3,169925001
TLR3	3,700439718	2,584962501	3,584962501	2,321928095	0	0
TLR4	8,379378367	8,092757141	7,936637939	2,321928095	4	0
TLR5	5,169925001	4,906890596	4,700439718	2,807354922	0	0
TLR6	4,857980995	4,700439718	4,95419631	3,321928095	4	4,321928095
TLR7	6,22881869	5,930737338	5,523561956	3,321928095	2,321928095	0
TLR8	9,28771238	9,469641817	9,357552005	1	3,700439718	4,64385619
TLR8-AS1	0	0	0	0	0	2
TLR9	0	0	0	0	0	0
TLX1	0	0	0	0	0	0

TLX1NB	0	0	0	0	0	0
TLX2	0	0	0	0	0	0
TLX3	0	0	0	0	1,584962501	0
TM2D1	8,62935662	8,636624621	8,668884984	8,731319031	8,566054038	8,807354922
TM2D2	6,62935662	6,686500527	6,459431619	6,95419631	6,375039431	6,169925001
TM2D3	7,569855608	7,209453366	7,17990909	7,672425342	8,011227255	8,033423002
TM4SF1	0	0	0	0	3	2
TM4SF18	0	1	1	3,321928095	0	3,169925001
TM4SF19	1,584962501	2,321928095	1,584962501	0	3	0
TM4SF20	0	0	1	0	0	0
TM4SF4	0	0	0	0	0	0
TM4SF5	0	0	0	0	0	0
TM6SF1	5,807354922	5,977279923	5,807354922	0	3	3,807354922
TM6SF2	0	0	0	0	0	0
TM7SF2	3,321928095	3,584962501	2	3,807354922	3	4,321928095
TM7SF3	7,918863237	7,787902559	7,383704292	7,022367813	6,942514505	6,247927513
TM9SF1	3,700439718	3,700439718	4,459431619	5,614709844	2,321928095	3,807354922
TM9SF2	9,434628228	9,533329732	9,495855027	8,636624621	8,625708843	8,558420713
TM9SF3	9,392317423	9,479780264	9,461479447	9,245552706	9,303780748	9,299208018
TM9SF4	6,832890014	6,781359714	6,491853096	7,055282436	7,312882955	7,312882955
TMBIM1	6,658211483	6,918863237	6,807354922	6,459431619	6,700439718	6,321928095
TMBIM4	9,28077077	9,184875343	9,364134655	8,758223215	8,599912842	8,348728154
TMBIM6	10,83051521	10,80574387	10,87036472	10,12541347	10,13057056	10,05528244
TMC1	0	1	1,584962501	0	0	3,169925001
TMC2	0	0	0	0	0	0
TMC3	0	0	0	0	1,584962501	0
TMC4	1,584962501	0	1,584962501	0	0	0
TMC5	0	0	1,584962501	0	0	0
TMC6	6,189824559	6,781359714	7,076815597	6,62935662	6,965784285	6,06608919
TMC7	0	0	0	2,321928095	1,584962501	2
TMC8	7,055282436	6,832890014	7,033423002	7,592457037	7,139551352	7,312882955
TMCC1	6,475733431	6,686500527	6,266786541	6,882643049	6,247927513	6,930737338
TMCC2	3	2,584962501	1,584962501	2,321928095	1,584962501	2
TMCC3	5,247927513	5,426264755	5,614709844	5,700439718	6,459431619	5,700439718
TMCO1	9,199672345	9,13442632	9,121533517	8,82336724	8,985841937	8,531381461
TMCO2	0	0	0	0	0	0
TMCO3	6,599912842	6,266786541	6,475733431	6,129283017	5,554588852	6,247927513
TMCO4	5,392317423	5,392317423	5,209453366	5,832890014	5,781359714	5,700439718
TMCO5A	1	1	0	0	0	0
TMCO5B	0	0	0	1	0	0
TMCO6	2,807354922	3,321928095	3,321928095	2,321928095	0	0
TMED1	4,459431619	4,321928095	4,64385619	0	0	0
TMED10	9,902375114	9,899356923	9,862637358	9,603626345	9,668884984	9,426264755
TMED10P1	0	0	0	0	0	0
TMED11P	0	0	0	2,807354922	1,584962501	4,95419631
TMED2	9,079484784	9,118941073	9,131856961	9,095397023	9,033423002	8,965784285
TMED3	4,906890596	4,64385619	4,247927513	5,700439718	6,044394119	6,882643049
TMED4	7,357552005	7,562242424	7,539158811	7,960001932	7,599912842	7,312882955
TMED5	8,499845887	8,562242424	8,499845887	7,614709844	7,62935662	6,930737338
TMED6	0	0	2,584962501	2,807354922	0	3,169925001
TMED7	7,73470962	7,787902559	7,918863237	6,554588852	6,807354922	6,169925001
TMED7-TICAM2	0	0	0	0	0	0
TMED8	7,209453366	7,392317423	7,483815777	7,14974712	6,918863237	7,442943496
TMED9	9,052568051	9,342074668	9,224001674	8,54303182	8,754887502	8,413627929
TMEFF1	0	0	0	0	0	0
TMEFF2	1,584962501	1,584962501	0	2,321928095	3,321928095	3,169925001
TMEM100	0	0	0	0	0	0
TMEM101	5,781359714	6,087462841	5,727920455	4,857980995	5,392317423	5,357552005

TMEM102	2,321928095	1,584962501	2	0	0	0
TMEM104	5,044394119	5,169925001	5	3,321928095	3,700439718	2
TMEM105	0	0	0	0	0	0
TMEM106A	6,50779464	6,918863237	6,700439718	5,357552005	5,392317423	5,357552005
TMEM106B	7,912889336	8,159871337	7,906890596	8,087462841	7,864186145	8,129283017
TMEM106C	4,247927513	4,392317423	4,857980995	2,807354922	5,392317423	4,64385619
TMEM107	6,569855608	6,977279923	6,882643049	7	7,247927513	5,357552005
TMEM108	1,584962501	1,584962501	3,169925001	4,087462841	4,95419631	5,169925001
TMEM109	8,487840034	8,668884984	8,54689446	7,754887502	8,209453366	7,622051819
TMEM111	6,06608919	6,209453366	6,491853096	6,321928095	6,700439718	6,754887502
TMEM110-MUSTN1	0	0	1	0	0	0
TMEM114	0	0	0	0	0	0
TMEM115	4,700439718	4,523561956	4,906890596	3,807354922	4,64385619	3,169925001
TMEM116	5,321928095	5,285402219	5	6,906890596	6,700439718	7,098032083
TMEM117	2,321928095	3,807354922	3,807354922	3,321928095	2,321928095	3,807354922
TMEM119	0	1	0	4,857980995	3	4,64385619
TMEM120A	6,087462841	6,459431619	6,06608919	6,321928095	6,129283017	6,569855608
TMEM120B	3,906890596	3,807354922	3,807354922	2,321928095	3,700439718	3,807354922
TMEM121	1,584962501	1	1	1	0	0
TMEM123	10,80896417	10,75655632	10,71080643	10,54689446	10,65284497	10,25148241
TMEM125	0	1	0	0	0	0
TMEM126A	6,754887502	6,303780748	6,169925001	5,700439718	5,977279923	2
TMEM126B	7,06608919	7,321928095	7,199672345	7,285402219	7,491853096	7,209453366
TMEM127	7,845490051	7,876516947	7,882643049	6	6,50779464	5,357552005
TMEM128	6,266786541	6,599912842	6,247927513	7,169925001	6,918863237	7,247927513
TMEM129	5,584962501	5,977279923	6,169925001	6,62935662	6,768184325	6,06608919
TMEM130	0	0	0	0	0	2
TMEM131	7,515699838	7,238404739	7,209453366	7,247927513	7,383704292	7,622051819
TMEM132A	0	0	1	0	0	0
TMEM132B	2,584962501	1	0	1	0	3,169925001
TMEM132C	1	0	0	0	1,584962501	0
TMEM132D	1	0	1	0	0	2
TMEM132E	0	0	0	0	0	0
TMEM134	6,491853096	6,459431619	6,64385619	6,794415866	6,807354922	6,409390936
TMEM135	4,857980995	4,700439718	4,584962501	5	4,64385619	3,807354922
TMEM136	1	0	0	0	0	0
TMEM138	7,276124405	7,554588852	7,515699838	4,321928095	5,781359714	5,832890014
TMEM139	0	0	0	2,321928095	0	0
TMEM140	5,64385619	5,459431619	5,906890596	5,129283017	5,64385619	3,169925001
TMEM141	5,044394119	5,930737338	6,189824559	4,700439718	4	5,357552005
TMEM143	3,807354922	3,700439718	4,169925001	3,321928095	1,584962501	4,321928095
TMEM144	4,64385619	4,64385619	4,584962501	1	0	2
TMEM145	0	0	0	0	0	0
TMEM147	7,257387843	7,392317423	7,21916852	5,882643049	6,459431619	5,700439718
TMEM14A	5,64385619	5,129283017	4,906890596	5,247927513	4,807354922	2
TMEM14B	7,266786541	7,17990909	6,807354922	6,906890596	7,159871337	7,055282436
TMEM14C	7,459431619	7,21916852	6,87036472	6,820178962	7,22881869	6,409390936
TMEM150A	4,392317423	5,044394119	5,129283017	1	3,321928095	0
TMEM150B	1	1	1,584962501	0	0	0
TMEM150C	1	0	1	0	1,584962501	3,169925001
TMEM151A	0	0	0	0	0	0
TMEM151B	0	0	0	0	0	0
TMEM154	7,247927513	7,044394119	7,321928095	6,882643049	7,108524457	6,820178962
TMEM155	2,807354922	1	2,584962501	1	1,584962501	2
TMEM156	3,321928095	4,392317423	4,169925001	2,807354922	4,807354922	4,64385619
TMEM158	4,754887502	4,754887502	4,754887502	0	3,321928095	3,807354922
TMEM159	5,044394119	4,857980995	4,754887502	4,321928095	4,247927513	3,807354922
TMEM160	3,459431619	4,321928095	4,906890596	1	4	0

TMEM161A	4,321928095	4,95419631	5,672425342	5,614709844	4,247927513	3,807354922
TMEM161B	7,189824559	7,17990909	7,599912842	7,700439718	7,64385619	7,721099189
TMEM163	3,807354922	3,584962501	3,906890596	0	0	0
TMEM164	7,562242424	7,539158811	7,515699838	5,459431619	5,392317423	3,807354922
TMEM165	8,144658243	8,247927513	8,434628228	7,599912842	7,366322214	7,672425342
TMEM167A	8,487840034	8,531381461	8,531381461	8,011227255	7,965784285	8,159871337
TMEM167B	7,303780748	7,434628228	7,22881869	7,839203788	8,044394119	8,087462841
TMEM168	6,189824559	6,392317423	6,426264755	6,95419631	6,539158811	7,055282436
TMEM169	2,321928095	3	2,807354922	0	3	2
TMEM17	0	0	0	0	3	0
TMEM170A	7,614709844	7,491853096	7,159871337	7,614709844	7,614709844	7,592457037
TMEM170B	6,321928095	6,357552005	6	2,807354922	3	3,169925001
TMEM171	1	0	0	1	0	3,169925001
TMEM173	5,169925001	5,672425342	5,977279923	5,832890014	5,554588852	5,169925001
TMEM174	0	0	0	0	0	0
TMEM175	3,906890596	3,807354922	4,169925001	2,321928095	0	2
TMEM176A	4,169925001	4	4,247927513	3,807354922	2,321928095	3,807354922
TMEM176B	5,169925001	5,321928095	5,129283017	0	0	0
TMEM177	4,523561956	4,321928095	4	2,321928095	3	2
TMEM179	0	0	0	0	0	0
TMEM179B	7,491853096	7,266786541	7,257387843	6,768184325	6,741466986	6,820178962
TMEM18	6,832890014	6,584962501	6,714245518	6,266786541	6,539158811	6,321928095
TMEM181	7,592457037	7,569855608	7,936637939	7,515699838	7,554588852	7,055282436
TMEM182	3	2,584962501	2	1	3	0
TMEM183A	6,339850003	6,189824559	6,339850003	6,768184325	6,409390936	6,700439718
TMEM184A	0	0	0	0	0	0
TMEM184B	5,930737338	6,129283017	5,882643049	6,409390936	6,741466986	6,247927513
TMEM184C	6,426264755	6,392317423	6,129283017	6,06608919	6,129283017	4,95419631
TMEM185A	2,807354922	3,321928095	3,321928095	3,807354922	3,321928095	3,169925001
TMEM185B	5,321928095	5,247927513	5	3,321928095	4,247927513	6,491853096
TMEM186	5,700439718	5,523561956	5,129283017	6,321928095	6,768184325	6,62935662
TMEM187	3,906890596	4,754887502	4,459431619	4,321928095	3,700439718	2
TMEM189	6,475733431	6,599912842	6,392317423	6,189824559	5,727920455	5,169925001
TMEM189-UBE2V1	0	0	0	0	0	0
TMEM19	7,209453366	7,17990909	7,055282436	6,375039431	5,977279923	4,95419631
TMEM190	0	0	0	0	0	0
TMEM191A	0	2,321928095	2,584962501	0	2,321928095	0
TMEM191C	0	0	0	0	0	0
TMEM192	7,882643049	7,900866808	7,569855608	7,357552005	7,366322214	7,562242424
TMEM196	0	0	0	0	0	2
TMEM198	0	0	0	0	0	0
TMEM198B	2,807354922	3,807354922	3,169925001	4,700439718	3,321928095	3,807354922
TMEM199	6,942514505	6,942514505	7,055282436	7,098032083	7,266786541	7,276124405
TMEM200A	2,584962501	1	2,584962501	1	2,321928095	3,807354922
TMEM200B	0	0	0	5,357552005	4,64385619	6,321928095
TMEM200C	1	0	0	0	0	0
TMEM201	3,584962501	3,807354922	1,584962501	0	0	0
TMEM202	0	0	0	0	0	0
TMEM203	5,64385619	5,64385619	5,781359714	6,554588852	6,584962501	6,06608919
TMEM204	7,442943496	7,577428828	7,539158811	8,64385619	8,845490051	8,558420713
TMEM205	5,882643049	5,832890014	5,727920455	5,357552005	5,392317423	2
TMEM206	5,64385619	5,64385619	5,426264755	3,321928095	4,64385619	3,169925001
TMEM207	0	0	0	0	0	0
TMEM208	7,169925001	7,383704292	7,257387843	6,700439718	6,942514505	6,754887502
TMEM209	6,426264755	6,599912842	6,321928095	6,584962501	6,459431619	6,754887502
TMEM211	0	0	0	0	0	0
TMEM212	0	0	0	0	0	0
TMEM213	1	0	0	0	0	4,321928095

TMEM214	5,930737338	6,087462841	6,247927513	5,357552005	5,781359714	6,06608919
TMEM215	0	0	0	0	0	0
TMEM216	4,523561956	4,64385619	4	3,321928095	4,64385619	3,169925001
TMEM217	2,321928095	0	0	2,807354922	2,321928095	0
TMEM218	5,584962501	5,426264755	4,523561956	4,700439718	4,807354922	5,357552005
TMEM219	6,754887502	6,918863237	6,820178962	6,845490051	6,658211483	6,321928095
TMEM220	4,95419631	5,129283017	5,129283017	4,321928095	4,459431619	3,807354922
TMEM221	0	0	0	0	0	0
TMEM222	3,700439718	3	2	0	3	3,169925001
TMEM223	5,64385619	4,857980995	4,95419631	5,459431619	5,727920455	5,95419631
TMEM225	0	0	0	0	0	0
TMEM229A	0	0	0	0	0	0
TMEM229B	3,807354922	4,169925001	4,64385619	2,807354922	2,321928095	3,169925001
TMEM231	2,321928095	0	1	5,129283017	5,087462841	5,700439718
TMEM232	1,584962501	0	0	5,357552005	4,459431619	6,169925001
TMEM233	0	0	0	0	2,321928095	3,169925001
TMEM234	2,807354922	1,584962501	1	0	2,321928095	0
TMEM235	0	0	0	0	0	0
TMEM236	3,459431619	2,321928095	2,807354922	5,459431619	5,459431619	5,832890014
TMEM237	3,584962501	2,807354922	3,584962501	0	3,321928095	2
TMEM238	1	0	0	0	3	0
TMEM239	0	0	0	0	0	0
TMEM240	0	0	0	1	0	0
TMEM241	3	3,321928095	3	3,807354922	3,700439718	5,554588852
TMEM242	5,672425342	5,426264755	5,584962501	3,807354922	4,64385619	3,807354922
TMEM244	2,321928095	0	1	1	0	0
TMEM25	4	3,807354922	3,807354922	3,807354922	3,700439718	3,807354922
TMEM26	1	0	1	0	0	0
TMEM30A	9,079484784	9,103287808	8,882643049	8,751544059	8,807354922	8,558420713
TMEM30B	4	4,64385619	3,169925001	5,357552005	5,459431619	4,64385619
TMEM31	0	0	0	0	0	0
TMEM33	8,447083226	8,335390355	8,294620749	7,515699838	7,781359714	7,562242424
TMEM37	0	0	0	0	0	0
TMEM38A	0	2,584962501	1	0	1,584962501	0
TMEM38B	6,614709844	6,321928095	6,392317423	5,614709844	5,781359714	4,95419631
TMEM39A	6,599912842	6,475733431	6,62935662	6,409390936	6,768184325	6,569855608
TMEM39B	4,64385619	4,906890596	4,584962501	2,807354922	3,700439718	0
TMEM40	0	1,584962501	0	0	2,321928095	3,169925001
TMEM41A	4,392317423	4,95419631	4,700439718	4,857980995	4,95419631	0
TMEM41B	5,584962501	6,409390936	6,087462841	6,459431619	6,375039431	5,95419631
TMEM42	4,700439718	4,584962501	4,459431619	6,129283017	5,64385619	5,554588852
TMEM43	8,584962501	8,54689446	8,475733431	8,252665432	8,636624621	8,271463028
TMEM44	1	0	0	0	0	0
TMEM45A	0	0	1	1	1,584962501	2
TMEM45B	4,459431619	4,584962501	4,087462841	5,930737338	5,285402219	3,169925001
TMEM47	1	3,169925001	0	3,807354922	1,584962501	4,64385619
TMEM50A	8,761551232	8,527477006	8,413627929	8,531381461	8,45532722	8,503825738
TMEM50B	7,303780748	7,247927513	7,118941073	6,409390936	6,459431619	5,832890014
TMEM51	7,918863237	7,876516947	7,62935662	5,247927513	5,285402219	5,554588852
TMEM52	0	0	0	0	0	0
TMEM53	3,700439718	3,700439718	4,247927513	1	0	0
TMEM54	0	0	0	0	0	0
TMEM56	0	1,584962501	1	0	0	0
TMEM56-RWDD3	0	0	0	1	0	0
TMEM59	9,016808288	8,915879379	8,861086906	8,636624621	8,807354922	8,463524373
TMEM59L	0	0	0	0	0	0
TMEM60	6,022367813	6,14974712	6,06608919	5,700439718	5,285402219	5,357552005
TMEM61	0	0	0	0	0	0

TMEM62	5	4,754887502	4,857980995	4,321928095	4,247927513	2
TMEM63A	7,17990909	6,754887502	7,50779464	7,22881869	7,383704292	6,321928095
TMEM63B	5,491853096	5,459431619	5,321928095	4,321928095	3	0
TMEM63C	0	1	0	0	0	0
TMEM64	6,108524457	5,832890014	5,614709844	6,554588852	6,832890014	5,95419631
TMEM65	6,392317423	6,658211483	6,50779464	5,459431619	6,247927513	6,06608919
TMEM67	2,807354922	3,321928095	2,807354922	3,321928095	3,321928095	3,807354922
TMEM68	5,906890596	5,672425342	5,614709844	6,129283017	6,189824559	6,06608919
TMEM69	5,392317423	5,523561956	5,321928095	5,700439718	5,727920455	5,832890014
TMEM70	7,936637939	8,076815597	7,665335917	7,531381461	7,312882955	7,276124405
TMEM71	6,700439718	6,523561956	6,918863237	6,95419631	6,700439718	6,700439718
TMEM72	0	0	0	0	0	0
TMEM72-AS1	0	0	0	0	0	0
TMEM74	0	0	0	0	0	0
TMEM74B	0	0	0	0	0	0
TMEM79	0	2,807354922	2,584962501	2,321928095	0	0
TMEM80	5,285402219	5,807354922	5,672425342	5,700439718	5,392317423	5,169925001
TMEM81	3	3,169925001	2,584962501	3,321928095	1,584962501	0
TMEM82	0	0	0	0	0	0
TMEM86A	3,584962501	3,700439718	3,169925001	0	0	0
TMEM86B	3,584962501	4,459431619	4,459431619	5,129283017	4,459431619	5,169925001
TMEM87A	9,084808388	9,087462841	8,84862294	8,409390936	8,894817763	8,463524373
TMEM87B	8,103287808	7,942514505	7,936637939	7,794415866	7,876516947	7,813781191
TMEM88	0	0	2	0	0	0
TMEM88B	0	0	0	0	0	0
TMEM89	0	0	0	0	0	0
TMEM8A	7,707359132	7,74819285	7,930737338	7,169925001	7,417852515	5,95419631
TMEM8B	4	3,321928095	4,392317423	4,857980995	4,95419631	0
TMEM9	5,247927513	5,459431619	5,491853096	6	6,044394119	5,700439718
TMEM91	3,459431619	3,807354922	3,906890596	2,321928095	4	3,807354922
TMEM92	0	0	0	0	0	0
TMEM95	0	0	0	0	0	0
TMEM97	4,392317423	4,169925001	3,321928095	2,321928095	3,700439718	0
TMEM98	0	0	0	0	0	0
TMEM99	3	3,321928095	3,584962501	3,807354922	4,247927513	4,321928095
TMEM9B	8,098032083	8,257387843	8,049848549	7,491853096	7,62935662	6,965784285
TMF1	9,105908509	9	8,994353437	8,948367232	9,016808288	8,915879379
TMIE	1	1	0	1	0	0
TMIGD1	1	2,584962501	3	4,700439718	4,807354922	5,832890014
TMIGD2	3	2,584962501	3,906890596	2,807354922	4	2
TMLHE	1,584962501	1,584962501	2,584962501	2,321928095	0	0
TMOD1	0	1	0	1	0	0
TMOD2	6,285402219	5,672425342	5,754887502	5,614709844	5,459431619	6,247927513
TMOD3	8,703903573	8,632995197	8,622051819	8,139551352	8,055282436	7,491853096
TMOD4	0	1	0	0	0	0
TMPO	8,647458426	8,603626345	8,654636029	8,924812504	8,74819285	8,675957033
TMPPE	3,459431619	4,087462841	3,700439718	0	1,584962501	0
TMPRSS11A	0	0	0	0	0	0
TMPRSS11B	1,584962501	1	3	4,523561956	4,807354922	5,832890014
TMPRSS11BNL	0	0	0	2,321928095	0	2
TMPRSS11D	0	0	0	0	0	2
TMPRSS11E	1	0	0	0	0	2
TMPRSS11F	1	1,584962501	1,584962501	4,857980995	4,64385619	4,95419631
TMPRSS11GP	0	0	0	0	0	0
TMPRSS12	0	0	0	0	0	3,169925001
TMPRSS13	1,584962501	0	1	2,321928095	2,321928095	3,169925001
TMPRSS15	0	2,584962501	0	3,321928095	4,807354922	4,321928095
TMPRSS2	0	0	0	0	0	0

TMPRSS3	3,584962501	3,169925001	3,700439718	5,754887502	5,169925001	5,357552005
TMPRSS4	0	1	2,584962501	3,321928095	3	2
TMPRSS5	0	0	1	0	0	0
TMPRSS6	0	0	0	1	0	0
TMPRSS7	1	0	0	0	1,584962501	4,321928095
TMPRSS9	0	0	0	1	0	3,807354922
TMSB10	11,23421868	11,23421868	11,25620869	9,087462841	9,596189756	8,700439718
TMSB15A	0	0	0	0	0	0
TMSB15B	0	0	0	0	0	0
TMSB4X	11,34706766	11,43567026	11,29289676	11,18982456	11,31741261	11,14274528
TMSB4Y	2,321928095	2,321928095	0	0	0	2
TMTC1	4,247927513	4,321928095	4,087462841	5,247927513	5,781359714	6,491853096
TMTC2	4,64385619	5,727920455	4,95419631	5,882643049	5,087462841	6,06608919
TMTC3	6,50779464	6,357552005	6,169925001	6,700439718	6,658211483	6,820178962
TMTC4	5,392317423	5,247927513	5,523561956	5,459431619	5,459431619	5,169925001
TMUB1	4	3,906890596	4,906890596	2,807354922	4,247927513	4,64385619
TMUB2	5,700439718	5,882643049	6,409390936	5,930737338	6,375039431	4,64385619
TMX1	8,366322214	8,348728154	8,252665432	7,076815597	7,417852515	6,754887502
TMX2	6,409390936	6,658211483	6,754887502	6,700439718	6,741466986	6,62935662
TMX2-CTNND1	0	0	0	0	0	0
TMX3	8,299208018	8,299208018	8,426264755	8,696967526	8,515699838	8,647458426
TMX4	9,103287808	8,991521846	8,971543554	8,519636253	8,857980995	8,447083226
TNC	0	0	2,807354922	4,523561956	5,169925001	5,357552005
TNF	5,832890014	5,285402219	4,700439718	6,189824559	6,285402219	5,357552005
TNFAIP1	5,584962501	5,781359714	5,426264755	4,087462841	4,64385619	0
TNFAIP2	10,05934446	10,18115226	9,99859043	5,129283017	6,044394119	5,554588852
TNFAIP3	10,16364968	10,29806257	10,27029533	10,31288296	10,53430288	10,4314976
TNFAIP6	5,584962501	5,247927513	5,584962501	5,523561956	5,459431619	6,247927513
TNFAIP8	10,48381578	10,36741475	10,37721053	10,32080055	10,39767463	10,19352536
TNFAIP8L1	6,14974712	6,442943496	6,189824559	5,754887502	6,375039431	5,357552005
TNFAIP8L2	3,807354922	4,169925001	4,64385619	4,321928095	2,321928095	0
TNFAIP8L3	0	0	1	0	0	0
TNFRSF10A	6,741466986	6,942514505	6,942514505	7,768184325	7,569855608	7,46760555
TNFRSF10B	6,285402219	6,339850003	6	6,584962501	5,727920455	6,491853096
TNFRSF10C	0	0	0	0	0	0
TNFRSF10D	5,807354922	5,807354922	5,209453366	5,930737338	6,189824559	3,807354922
TNFRSF11A	3	3,584962501	3,906890596	2,321928095	1,584962501	0
TNFRSF11B	0	1	1,584962501	0	2,321928095	4,64385619
TNFRSF12A	1	3,169925001	1	0	0	0
TNFRSF13B	4,459431619	3	4,754887502	5	5,781359714	5,554588852
TNFRSF13C	6,832890014	6,918863237	6,87036472	7,247927513	7,417852515	6,409390936
TNFRSF14	8,076815597	8,442943496	8,675957033	7,994353437	8,233619677	7,276124405
TNFRSF17	3,807354922	4,169925001	3,169925001	3,321928095	4,64385619	2
TNFRSF18	2,807354922	3,169925001	4,247927513	5,523561956	5,285402219	5,169925001
TNFRSF19	1	0	0	0	0	0
TNFRSF1A	7,417852515	7,554588852	7,409390936	5,247927513	6,321928095	6,169925001
TNFRSF1B	8,948367232	9,285402219	9,049848549	8,375039431	8,816983623	8,129283017
TNFRSF21	2,321928095	0	1,584962501	0	0	0
TNFRSF25	6,475733431	6,209453366	7	8,204571144	7,977279923	8,312882955
TNFRSF4	1,584962501	2,807354922	3,321928095	4,087462841	0	0
TNFRSF6B	0	0	0	0	0	0
TNFRSF8	1,584962501	1,584962501	1	0	0	0
TNFRSF9	5,672425342	5,614709844	5,857980995	6,06608919	6,375039431	6,409390936
TNFSF10	8,14974712	7,930737338	7,77478706	6,375039431	7,17990909	6,820178962
TNFSF11	2,321928095	2,807354922	2	0	0	0
TNFSF12	6,475733431	6,392317423	6,303780748	4,857980995	6,087462841	5,169925001
TNFSF12-TNFSF13	0	0	0	0	0	0
TNFSF13	0	0	0	0	0	0

TNFSF13B	9,594324604	9,517669388	9,52160044	6,700439718	6,741466986	7,442943496
TNFSF14	5,209453366	5,285402219	5,491853096	5,614709844	5,857980995	6,321928095
TNFSF15	2,321928095	1	1,584962501	1	0	0
TNFSF18	0	0	0	0	0	2
TNFSF4	3,584962501	3,321928095	3,321928095	5,357552005	4,64385619	4,95419631
TNFSF8	4	4,584962501	4,169925001	5,700439718	6,129283017	5,554588852
TNFSF9	1	1,584962501	2,584962501	1	0	0
TNIK	7,900866808	8,038918989	8	8,321928095	8,592457037	8,299208018
TNIP1	7,74819285	7,918863237	8,098032083	7,930737338	8,118941073	8,06608919
TNIP2	5,426264755	5,169925001	4,95419631	5,700439718	4,95419631	3,169925001
TNIP3	3,906890596	4,321928095	4,857980995	5,523561956	5,169925001	4,64385619
TNK1	2,321928095	1	1	0	1,584962501	2
TNK2	6,658211483	6,459431619	6,781359714	7,098032083	7,108524457	7,409390936
TNKS	6,459431619	6,392317423	6,50779464	7,209453366	7,17990909	7,348728154
TNKS1BP1	2,584962501	2,321928095	2,584962501	1	0	0
TNKS2	8	7,876516947	7,826548487	8,321928095	8,174925683	8,271463028
TNMD	0	0	0	0	0	0
TNN	0	0	0	0	0	0
TNNC1	0	0	0	2,321928095	3,700439718	3,169925001
TNNC2	0	1	0	2,321928095	0	0
TNNI1	0	0	0	0	0	0
TNNI2	3	2,584962501	2,807354922	0	0	0
TNNI3	0	0	0	2,321928095	0	3,807354922
TNNI3K	0	0	0	0	0	0
TNNT1	2,584962501	2,321928095	1,584962501	0	0	0
TNNT2	0	0	1	0	0	0
TNNT3	0	2,321928095	0	4,857980995	2,321928095	4,95419631
TNP1	0	0	0	0	0	0
TNP2	0	0	0	0	0	2
TNPO1	8,909893084	8,924812504	9,044394119	8,87958325	8,985841937	8,845490051
TNPO2	6,06608919	6,475733431	6,426264755	7,285402219	7,400879436	7,276124405
TNPO3	7,813781191	7,95419631	7,982993575	8,071462363	8,299208018	8,144658243
TNR	0	0	0	1	3	4,64385619
TNRC18	6,62935662	6,857980995	6,658211483	7	6,614709844	6,62935662
TNRC6A	8,566054038	8,588714636	8,945443836	9,442943496	9,424166289	9,499845887
TNRC6B	10,43045255	10,4252159	10,59991284	10,67683861	10,56033283	10,76652891
TNRC6C	8,299208018	8,459431619	8,577428828	8,816983623	8,933690655	8,603626345
TNS1	4,459431619	4,169925001	4	1	1,584962501	0
TNS3	7,189824559	7,055282436	7,392317423	2,321928095	0	3,169925001
TNS4	0	0	0	0	0	0
TNXA	0	0	0	0	0	0
TNXB	0	0	0	0	0	0
TOB1	8,30833903	8,139551352	8,164906927	7,554588852	7,539158811	7,055282436
TOB2	7,599912842	7,651051691	7,46760555	7,577428828	7,64385619	7,442943496
TOB2P1	0	1	0	1	0	3,169925001
TOE1	5,554588852	5,554588852	5,044394119	4,523561956	5,392317423	5,554588852
TOLLIP	7,169925001	7,442943496	7,14974712	6,62935662	6,807354922	6,569855608
TOM1	4,857980995	5,554588852	5,459431619	4,321928095	4,247927513	0
TOM1L1	1	1,584962501	0	1	2,321928095	2
TOM1L2	5,209453366	4,95419631	4,95419631	5,700439718	5,64385619	4,64385619
TOMM20	7,900866808	8,144658243	8,238404739	7,918863237	8,082149041	7,813781191
TOMM20L	0	0	0	0	0	0
TOMM22	7,515699838	7,665335917	7,839203788	8,164906927	7,994353437	8,204571144
TOMM34	6,285402219	6,285402219	6,658211483	6,62935662	6,807354922	6,247927513
TOMM40	6,266786541	6,209453366	6,906890596	6,906890596	7,022367813	6,700439718
TOMM40L	4,64385619	4,64385619	4,087462841	2,321928095	3	2
TOMM5	3,700439718	3	3,169925001	3,807354922	3	5,554588852
TOMM6	0	0	0	0	0	0

TOMM7	10,49385545	10,40407714	10,27496047	11,30663136	11,30663136	11,33539035
TONSL	0	0	0	0	0	0
TOP1	9,527477006	9,296916207	9,33315535	9,845490051	9,675957033	10,10721708
TOP1MT	5,584962501	5,247927513	4,700439718	4,700439718	5,087462841	3,169925001
TOP2A	5	5,321928095	4,247927513	5,614709844	5,727920455	4,95419631
TOP2B	9,250298418	9,319672121	9,144658243	9,853309555	9,791162889	9,924812504
TOP3A	5,209453366	4,906890596	5,392317423	5,129283017	5,930737338	4,64385619
TOP3B	0	0	0	0	0	0
TOPBP1	8,038918989	7,960001932	8,033423002	7,960001932	7,851749041	7,965784285
TOPORS	8,791162889	8,54303182	8,495855027	8,471675214	8,082149041	8,603626345
TOR1A	6,584962501	6,209453366	6,584962501	6,375039431	5,977279923	6,321928095
TOR1AIP1	8,103287808	8,108524457	7,948367232	7,826548487	8,184875343	8,174925683
TOR1AIP2	8,082149041	8,038918989	7,906890596	8,164906927	8,082149041	8,238404739
TOR1B	6,044394119	6,189824559	5,614709844	4,087462841	5,087462841	0
TOR2A	4,906890596	4,906890596	4,64385619	0	3,321928095	0
TOR3A	6,409390936	7,087462841	6,754887502	6,741466986	6,658211483	6,321928095
TOX	6,569855608	6,781359714	6,523561956	7,392317423	7,539158811	7,348728154
TOX2	4,95419631	4,392317423	4,459431619	6,375039431	6,539158811	5,357552005
TOX3	1,584962501	0	1	0	0	0
TOX4	7,8008999	7,714245518	8,06608919	7,994353437	8,361943774	7,761551232
TP53	6,022367813	6,285402219	6,392317423	7,209453366	6,832890014	7,011227255
TP53AIP1	0	0	0	0	0	0
TP53BP1	6,942514505	6,942514505	6,781359714	7,266786541	7,022367813	6,965784285
TP53BP2	7,033423002	6,882643049	6,426264755	6,794415866	6,918863237	6,930737338
TP53I11	4,857980995	4,754887502	4,754887502	4,523561956	5,087462841	4,321928095
TP53I13	4,459431619	4,584962501	3,584962501	3,321928095	3,321928095	0
TP53I3	4,392317423	3,584962501	3,807354922	0	0	0
TP53INP1	6,882643049	7,129283017	6,714245518	6,820178962	6,857980995	7,055282436
TP53INP2	4,459431619	4,459431619	4,584962501	0	3,700439718	0
TP53RK	6,459431619	6,658211483	6,523561956	6	6,882643049	4,95419631
TP53TG1	4,95419631	4,321928095	4,247927513	4,700439718	3,700439718	3,169925001
TP53TG3	0	0	0	0	0	0
TP53TG3B	0	0	0	0	0	0
TP53TG3C	0	0	0	0	0	0
TP53TG5	0	0	0	0	0	0
TP63	2,584962501	2,321928095	1,584962501	4,321928095	3,321928095	2
TP73	0	0	0	0	0	0
TP73-AS1	3,906890596	5	4,857980995	6,129283017	5,459431619	4,64385619
TPBG	3,459431619	3,807354922	3	5,129283017	5,459431619	6,569855608
TPCN1	5,977279923	6,169925001	6,426264755	6,266786541	4,95419631	6,321928095
TPCN2	4,906890596	5	5	4,321928095	4,807354922	3,807354922
TPD52	6,50779464	6,321928095	6,459431619	6,189824559	6,832890014	6,569855608
TPD52L1	1,584962501	0	2	4,087462841	1,584962501	2
TPD52L2	7,918863237	8,194756854	8,169925001	7,209453366	7,707359132	7,348728154
TPD52L3	0	1	0	0	0	0
TPGS1	0	2,321928095	1	0	0	0
TPGS2	6,189824559	6,321928095	6,475733431	6,375039431	6,321928095	4,95419631
TPH1	2,807354922	3	4,247927513	3,807354922	4,247927513	5,832890014
TPH2	0	1	0	0	1,584962501	4,321928095
TPI1	8,573647187	8,758223215	8,426264755	7,894817763	8,724513853	7,375039431
TPI1P2	0	0	0	0	0	0
TPI1P3	0	0	0	0	0	0
TPK1	6,409390936	6,108524457	6,22881869	6,321928095	5,977279923	6,491853096
TPM1	5	4,857980995	5,247927513	4,087462841	4	3,169925001
TPM2	4,754887502	5,044394119	5,169925001	4,523561956	5,087462841	5,169925001
TPM3	9,481799432	9,385862401	9,087462841	8,861086906	8,912889336	8,348728154
TPM4	8,011227255	8,022367813	7,794415866	6,375039431	6,768184325	5,832890014
TPMT	6,614709844	6,714245518	6,285402219	3,321928095	4,459431619	2

TPO	0	0	0	0	0	0
TPP1	9,226412193	9,221587121	9,129283017	8,787902559	8,6794801	8,791162889
TPP2	8,243173983	7,87036472	8,139551352	8,285402219	7,924812504	8,434628228
TPPP	1,584962501	2,584962501	0	1	2,321928095	2
TPPP2	0	0	0	0	0	0
TPPP3	0	0	0	0	0	0
TPR	10,4419067	10,27844946	10,35314683	10,66533592	10,49785184	10,49785184
TPRA1	5	4,906890596	4,906890596	4,321928095	4,64385619	2
TPRG1	4,523561956	4,169925001	4,523561956	5,882643049	5,64385619	6,62935662
TPRG1L	6,672425342	6,781359714	6,599912842	7,098032083	7,17990909	6,882643049
TPRKB	6,832890014	6,714245518	6,930737338	6,882643049	7,108524457	7,375039431
TPRN	2,584962501	3	3	4,321928095	4,459431619	2
TPRX1	0	0	0	0	0	0
TPRXL	0	0	0	0	0	3,169925001
TPSAB1	0	0	0	0	0	0
TPSB2	0	0	0	0	0	2
TPSD1	0	0	0	0	0	0
TPSG1	0	0	0	0	0	0
TPST1	2,584962501	2,584962501	2,584962501	4,523561956	4	5,95419631
TPST2	7,159871337	7,459431619	7,321928095	6,62935662	6,918863237	5,700439718
TPT1	12,68584381	12,56176526	12,46275787	13,62285259	12,92295599	13,11715606
TPT1-AS1	5,357552005	5,129283017	5,426264755	6,50779464	6,285402219	6,700439718
TPTE	0	0	0	0	0	0
TPTE2	0	0	0	2,321928095	2,321928095	3,807354922
TPTE2P1	0	0	0	2,321928095	0	0
TPTE2P6	0	0	0	0	0	0
TPTEP1	0	0	1	0	3	2
TPX2	1	2,807354922	2	2,807354922	3	5,700439718
TRA2A	9,209453366	9,252665432	9,417852515	8,994353437	9,13442632	9,033423002
TRA2B	10,39553414	10,29232163	10,38154295	10,38694025	10,43671154	10,57175264
TRABD	6,700439718	6,832890014	6,781359714	6,930737338	6,857980995	6,754887502
TRADD	6,022367813	5,832890014	5,614709844	5,930737338	6,50779464	5,832890014
TRAF1	6,832890014	6,658211483	7,14974712	7,614709844	7,672425342	7,761551232
TRAF2	4,523561956	4,392317423	4,392317423	4,857980995	4,459431619	5,169925001
TRAF3	8,233619677	8,370687407	8,144658243	8,622051819	8,618385502	8,791162889
TRAF3IP1	6,672425342	6,554588852	6,392317423	6,794415866	6,658211483	6,247927513
TRAF3IP2	3,807354922	3,906890596	4,087462841	6,22881869	5,087462841	6,06608919
TRAF3IP2-AS1	3,459431619	3,321928095	3,321928095	4,321928095	4,807354922	3,169925001
TRAF3IP3	8,936637939	8,968666793	9,047123912	9,400879436	9,192292814	9,008428622
TRAF4	4,321928095	3,584962501	3,807354922	3,321928095	4,807354922	4,321928095
TRAF5	6,832890014	6,62935662	7,011227255	7,599912842	7,139551352	7,169925001
TRAF6	5,523561956	5,087462841	5,426264755	5,129283017	5,169925001	4,95419631
TRAF7	6,569855608	6,882643049	7,087462841	6,62935662	6,832890014	6,06608919
TRAFD1	6,845490051	7,129283017	6,832890014	6,658211483	7,159871337	7,129283017
TRAIP	2,584962501	1,584962501	3,169925001	1	0	0
TRAK1	6,426264755	6,62935662	6,247927513	6,700439718	6,129283017	6,06608919
TRAK2	7,832890014	7,636624621	7,348728154	7,14974712	7,285402219	6,820178962
TRAM1	9,705632387	9,642051693	9,558420713	9,25502857	9,350939182	9,019590728
TRAM1L1	0	0	0	0	1,584962501	0
TRAM2	5,882643049	5,523561956	5,321928095	4,523561956	5,169925001	2
TRANK1	7,77478706	7,876516947	8,016808288	7,426264755	6,857980995	7,515699838
TRAP1	6,06608919	6,266786541	5,584962501	6,554588852	6,539158811	6,569855608
TRAPPC1	5,129283017	5,614709844	5,523561956	4,321928095	5,087462841	5,169925001
TRAPPC10	6,614709844	6,599912842	6,857980995	7,303780748	7,087462841	7,46760555
TRAPPC11	7,108524457	7,087462841	7,011227255	7,409390936	7,247927513	7,011227255
TRAPPC12	5,64385619	5,044394119	6,06608919	6,321928095	5,930737338	5,700439718
TRAPPC2	6,266786541	6,523561956	6,700439718	6,930737338	7,139551352	6,569855608
TRAPPC2L	6,584962501	6,977279923	6,50779464	6,321928095	6,50779464	5,554588852

TRAPPC3	6,475733431	6,599912842	6,339850003	6,700439718	6,614709844	6,700439718
TRAPPC4	7,700439718	7,839203788	7,960001932	7,894817763	8,044394119	7,562242424
TRAPPC5	1	2,584962501	2	3,321928095	3,321928095	4,321928095
TRAPPC6A	5,584962501	5,781359714	5,584962501	6,554588852	6,741466986	6,409390936
TRAPPC6B	6,539158811	6,768184325	6,930737338	6,930737338	7,044394119	6,700439718
TRAPPC8	8,45532722	8,169925001	8,252665432	8,614709844	8,139551352	8,21916852
TRAPPC9	3,321928095	4,169925001	3,807354922	1	3	3,169925001
TRAT1	7,087462841	7,098032083	6,672425342	7,672425342	7,707359132	7,721099189
TRDMT1	4,857980995	4,087462841	5	5	4,247927513	5,700439718
TRDN	2,321928095	0	0	2,321928095	3,321928095	0
TREH	0	0	0	0	0	0
TREM1	3,321928095	1,584962501	2	0	0	0
TREM2	4,392317423	4,857980995	4,857980995	0	0	0
TREML1	0	1	0	0	0	0
TREML2	1	0	0	0	1,584962501	0
TREML4	0	2,321928095	0	2,807354922	4	4,95419631
TRERF1	7,515699838	7,312882955	7,491853096	7,375039431	7,475733431	7,46760555
TREX1	0	0	0	0	0	0
TREX2	0	0	0	0	0	0
TRH	0	1	0	0	0	0
TRHDE	2,321928095	2,321928095	2,584962501	2,807354922	3,700439718	4,64385619
TRHR	0	0	0	0	0	0
TRIAP1	6,95419631	7,409390936	7,098032083	7,672425342	7,491853096	7,562242424
TRIB1	6,459431619	6,285402219	6,189824559	5,129283017	5,087462841	4,64385619
TRIB2	7,54689446	7,876516947	8,011227255	8,033423002	8,276124405	7,64385619
TRIB3	3,906890596	4,169925001	3,169925001	3,321928095	3,321928095	0
TRIL	0	0	0	0	0	0
TRIM10	0	0	0	0	0	0
TRIM11	7,011227255	7,409390936	7,159871337	7,727920455	7,942514505	7,562242424
TRIM13	6,845490051	7,129283017	7,276124405	7,839203788	7,707359132	7,832890014
TRIM14	7,238404739	7,303780748	7,523561956	7,22881869	7,22881869	7,098032083
TRIM15	0	0	0	0	0	0
TRIM16	2,807354922	3,700439718	3,700439718	4,857980995	4,64385619	5,700439718
TRIM16L	2,807354922	2,807354922	2,584962501	4,087462841	3,700439718	0
TRIM17	0	0	0	0	0	0
TRIM2	4	3,700439718	3,700439718	3,321928095	4,459431619	5,357552005
TRIM21	7,06608919	7,21916852	7,54689446	6,554588852	6,882643049	7,011227255
TRIM22	8,791162889	8,741466986	8,924812504	8,562242424	8,625708843	8,348728154
TRIM23	6,658211483	6,339850003	6,614709844	7,442943496	7,400879436	7,721099189
TRIM24	6,584962501	6,357552005	6,375039431	6,794415866	5,64385619	6,409390936
TRIM25	7,531381461	7,607330314	7,787902559	7,209453366	7	6,930737338
TRIM26	6,768184325	6,727920455	6,87036472	6,794415866	7,044394119	6,882643049
TRIM27	7,076815597	7,076815597	7,011227255	7,599912842	7,523561956	7,761551232
TRIM28	6,044394119	5,882643049	5,857980995	6,700439718	6,658211483	6,569855608
TRIM29	0	0	0	0	0	0
TRIM3	1,584962501	1	2,584962501	1	0	0
TRIM31	0	1,584962501	0	0	1,584962501	2
TRIM32	5,044394119	4,392317423	4,523561956	3,321928095	6,044394119	3,169925001
TRIM33	8,77478706	8,829722735	8,897845456	9,087462841	9,174925683	9,28077077
TRIM34	0	1	1	1	0	0
TRIM35	6,285402219	5,857980995	5,781359714	6,06608919	6,044394119	3,807354922
TRIM36	3,584962501	2,807354922	3,321928095	4,321928095	3,321928095	3,807354922
TRIM37	6,599912842	6,392317423	6,06608919	6,50779464	6,375039431	5,700439718
TRIM38	9,154818109	9,172427509	9,361943774	9,164906927	9,033423002	9,240791332
TRIM39	5,584962501	5,727920455	5,357552005	5,832890014	6,189824559	6,06608919
TRIM39-RPP21	0	0	0	0	0	0
TRIM4	7,965784285	7,994353437	8,139551352	8,495855027	8,471675214	8,531381461
TRIM40	0	0	0	0	0	0

TRIM41	5,930737338	5,357552005	5,700439718	6	6,321928095	6,491853096
TRIM42	0	0	0	0	0	0
TRIM43	0	0	0	0	0	0
TRIM43B	0	0	0	0	0	0
TRIM44	8,87036472	9,005624549	9,14974712	9,257387843	9,370687407	9,487840034
TRIM45	0	1	0	0	0	0
TRIM46	0	1,584962501	0	1	1,584962501	0
TRIM47	3,321928095	2,807354922	2,807354922	1	3	0
TRIM48	0	0	0	0	0	0
TRIM49	0	0	0	0	0	0
TRIM5	6,409390936	6,285402219	6,285402219	5,754887502	5,857980995	4,95419631
TRIM50	0	0	0	0	0	0
TRIM52	7,523561956	7,539158811	7,475733431	8,294620749	8,174925683	8,475733431
TRIM54	0	0	0	0	0	0
TRIM55	0	0	0	0	0	0
TRIM56	8,290018847	8,475733431	8,503825738	9,11113567	9,057991723	9,447083226
TRIM58	0	0	1,584962501	0	1,584962501	3,807354922
TRIM59	6,832890014	6,62935662	6,62935662	6,794415866	6,741466986	7,129283017
TRIM6	1,584962501	2,807354922	0	0	0	0
TRIM6-TRIM34	0	0	0	0	0	0
TRIM60	0	0	0	1	0	0
TRIM61	0	0	0	0	0	0
TRIM62	3	2,584962501	3,321928095	0	0	0
TRIM63	0	0	0	0	0	0
TRIM64	0	0	0	0	0	0
TRIM64B	0	0	0	0	0	0
TRIM64C	0	1	0	2,321928095	0	2
TRIM65	5,523561956	5,426264755	5,584962501	6,22881869	5,781359714	4,321928095
TRIM66	5,64385619	5,285402219	5,491853096	6,129283017	6,285402219	6,491853096
TRIM67	0	0	0	0	0	0
TRIM68	4,247927513	5,129283017	4,95419631	4,087462841	2,321928095	2
TRIM69	7,139551352	7,577428828	7,06608919	8,224001674	8,348728154	8,592457037
TRIM7	0	1	1	0	0	0
TRIM71	0	0	1	0	2,321928095	3,169925001
TRIM72	0	0	0	3,321928095	3,321928095	4,64385619
TRIM73	0	0	0	0	0	0
TRIM74	0	0	0	0	0	0
TRIM8	6,50779464	6,554588852	6,584962501	6,820178962	6,50779464	7,312882955
TRIM9	1,584962501	2,321928095	3	3,321928095	3,321928095	4,64385619
TRIML1	0	0	0	0	0	0
TRIML2	0	0	0	0	1,584962501	0
TRIO	6,584962501	6,569855608	6,523561956	5,832890014	5,169925001	6,491853096
TRIOBP	6,459431619	6,50779464	6,50779464	5,882643049	5,781359714	5,554588852
TRIP10	4	4,584962501	4	0	3,321928095	3,169925001
TRIP11	8,658211483	8,523561956	8,554588852	8,918863237	8,64385619	9,189824559
TRIP12	9,301496195	9,355351096	9,342074668	9,485829309	9,262094845	9,583082768
TRIP13	0	2,321928095	0	0	0	0
TRIP4	6,906890596	7,108524457	6,965784285	6,906890596	6,807354922	6,409390936
TRIP6	3,459431619	4,459431619	3,807354922	3,321928095	0	0
TRIT1	5,832890014	6,129283017	6,321928095	6,129283017	6,285402219	6,247927513
TRMT1	4,392317423	4,584962501	4,754887502	4,087462841	5,392317423	4,95419631
TRMT11	5,392317423	5,727920455	5,754887502	5,882643049	6,087462841	6,06608919
TRMT112	8,985841937	9,174925683	9,147204925	9,471675214	9,649256178	9,21916852
TRMT12	5,129283017	5,64385619	5,491853096	5,129283017	5,781359714	4,321928095
TRMT11L	7,459431619	7,599912842	7,54689446	8,375039431	8,159871337	8,768184325
TRMT2A	4,392317423	3,584962501	3,906890596	4,087462841	4,247927513	3,807354922
TRMT2B	6,285402219	6,442943496	6,475733431	5,882643049	6,409390936	3,807354922
TRMT5	5,169925001	5,357552005	5,209453366	5,129283017	5,392317423	4,95419631

TRMT6	7,383704292	7,592457037	7,159871337	7,62935662	7,820178962	7,562242424
TRMT61A	3	1,584962501	3	1	2,321928095	0
TRMT61B	5,209453366	4,523561956	4,857980995	5,357552005	4,95419631	5,554588852
TRMU	3	3,584962501	3,807354922	4,321928095	4	4,95419631
TRNAU1AP	5,807354922	5,727920455	5,754887502	6	6,285402219	6,62935662
TRNP1	0	0	0	0	0	0
TRNT1	6,321928095	6,169925001	6,285402219	6,129283017	6,409390936	6,06608919
TRO	0	1	0	1	0	0
TROAP	0	0	0	0	0	0
TROVE2	8,566054038	8,434628228	8,257387843	8,519636253	8,348728154	8,622051819
TRPA1	1	0	0	1	0	0
TRPC1	3,807354922	3,700439718	2,584962501	4,700439718	4,95419631	2
TRPC2	0	0	0	0	0	0
TRPC3	0	1	0	0	3	2
TRPC4	0	0	0	0	0	0
TRPC4AP	6,475733431	6,189824559	6,189824559	6,321928095	5,977279923	5,95419631
TRPC5	0	0	0	0	0	0
TRPC6	2,321928095	0	1	2,321928095	1,584962501	4,64385619
TRPC7	0	0	0	0	0	0
TRPM1	1	0	0	4,087462841	3	3,807354922
TRPM2	4,584962501	4,459431619	5	0	0	0
TRPM3	2,807354922	3,584962501	3,807354922	6	5,857980995	7,247927513
TRPM4	2,584962501	1,584962501	2,807354922	1	0	0
TRPM5	0	0	0	0	0	0
TRPM6	3,459431619	2,321928095	1,584962501	2,807354922	1,584962501	3,807354922
TRPM7	9,226412193	9,252665432	9,368506462	9,796039609	9,707359132	9,731319031
TRPM8	0	1,584962501	2	1	5,392317423	6,06608919
TRPS1	7,108524457	7,129283017	6,918863237	7,129283017	7,139551352	6,965784285
TRPT1	4,321928095	4,321928095	4,459431619	3,321928095	5,169925001	0
TRPV1	1,584962501	1,584962501	2	3,321928095	1,584962501	4,321928095
TRPV2	5,781359714	6	5,523561956	4,700439718	4	0
TRPV3	1,584962501	1	1	0	1,584962501	3,169925001
TRPV4	0	1	3,169925001	0	0	2
TRPV5	0	0	0	0	0	0
TRPV6	0	0	0	0	0	0
TRRAP	6,129283017	6,375039431	6,658211483	6,321928095	6,700439718	6,882643049
TRUB1	6,658211483	6,614709844	6,807354922	7,658211483	7,247927513	7,700439718
TRUB2	5,392317423	5,044394119	5,614709844	5,882643049	6,189824559	6,169925001
TSC1	7,876516947	7,8008999	8,17990909	8,174925683	7,807354922	7,700439718
TSC2	5,727920455	5,523561956	5,781359714	6,321928095	5,857980995	5,554588852
TSC22D1	6,569855608	6,50779464	6,832890014	7,285402219	6,700439718	7,276124405
TSC22D2	7,499845887	7,321928095	7,400879436	7,339850003	7,434628228	7,129283017
TSC22D3	9,226412193	9,483815777	9,116343961	9,417852515	9,712527	9,269126679
TSC22D4	7,108524457	7,312882955	7,483815777	6,95419631	7,400879436	7,011227255
TSEN15	8,113742166	8,276124405	8,243173983	8,266786541	8,503825738	8,108524457
TSEN2	2,807354922	3	4	5,129283017	4,95419631	4,95419631
TSEN34	6,129283017	6,266786541	6,247927513	5,129283017	5,727920455	2
TSEN54	7,209453366	7,339850003	7,54689446	7,768184325	7,672425342	7,832890014
TSFM	6,044394119	5,807354922	4,857980995	6,321928095	6,832890014	6,321928095
TSG101	7,022367813	6,988684687	7,159871337	6,930737338	7,087462841	6,754887502
TSGA10	5,727920455	5,426264755	5,727920455	6,62935662	6,965784285	7,169925001
TSGA10IP	0	0	0	0	0	0
TSGA13	0	0	0	0	0	0
TSHB	0	0	0	0	0	0
TSHR	2,584962501	0	2,584962501	3,807354922	0	4,321928095
TSHZ1	7,357552005	7,459431619	7,139551352	7,64385619	7,658211483	7,592457037
TSHZ2	6,459431619	6,375039431	6,714245518	8,82336724	8,21916852	9,033423002
TSHZ3	5,64385619	5,727920455	4,95419631	0	0	0

TSIX	1,584962501	2,584962501	2,584962501	4,087462841	3	6,06608919
TSKS	0	1	0	0	0	0
TSKU	0	0	0	0	0	0
TSLP	0	1	0	0	0	0
TSN	8,092757141	8,129283017	8,199672345	8,103287808	8,392317423	7,592457037
TSNARE1	0	1,584962501	1	0	1,584962501	0
TSNAX	7,562242424	7,607330314	7,21916852	7,266786541	7,400879436	7,011227255
TSNAX-DISC1	0	0	0	0	0	0
TSNAXIP1	0	0	1	0	0	0
TSPAN1	0	0	0	0	0	0
TSPAN10	2,321928095	1,584962501	0	0	0	0
TSPAN11	0	0	0	0	0	0
TSPAN12	0	0	0	0	0	0
TSPAN13	4,857980995	5,285402219	5,247927513	5,357552005	6,044394119	5,357552005
TSPAN14	8,262094845	8,430452552	8,495855027	8,832890014	8,807354922	8,885696373
TSPAN15	0	1	0	2,321928095	0	0
TSPAN16	0	0	0	0	0	2
TSPAN17	5,044394119	4,906890596	5,129283017	3,807354922	4,459431619	3,169925001
TSPAN18	3,807354922	2,321928095	3,169925001	4,700439718	3	0
TSPAN19	2,321928095	0	1	0	0	2
TSPAN2	6,108524457	5,672425342	5,426264755	6	5,977279923	5,700439718
TSPAN3	7,741466986	7,813781191	7,475733431	7,515699838	7,924812504	7,491853096
TSPAN31	5,491853096	5,392317423	5,169925001	5,459431619	4,95419631	5,832890014
TSPAN32	5	4,087462841	4,64385619	4,523561956	1,584962501	2
TSPAN33	4,700439718	4,584962501	5,129283017	3,321928095	3,700439718	0
TSPAN4	5,044394119	5,459431619	5,554588852	2,807354922	1,584962501	2
TSPAN5	5	5,169925001	5,169925001	5,930737338	5,64385619	3,169925001
TSPAN6	3	0	0	1	0	0
TSPAN7	0	0	0	0	0	0
TSPAN8	0	0	0	0	0	3,169925001
TSPAN9	0	0	0	0	0	0
TSPEAR	0	0	0	0	0	0
TSPO	7,741466986	7,977279923	7,77478706	6,741466986	6,375039431	5,554588852
TSPO2	0	0	0	0	0	0
TSPY1	0	0	0	0	0	0
TSPY2	0	0	0	0	0	0
TSPY26P	2,584962501	3,169925001	2,807354922	3,321928095	3,321928095	3,169925001
TSPY3	0	0	0	0	0	0
TSPY4	0	0	0	0	0	0
TSPY8	0	0	0	0	0	0
TSPYL1	8,159871337	7,936637939	7,74819285	8,252665432	8,129283017	7,918863237
TSPYL2	6,794415866	6,807354922	6,614709844	7,813781191	7,383704292	8,033423002
TSPYL4	7,139551352	7	6,906890596	8,14974712	7,768184325	8,033423002
TSPYL5	1,584962501	3	2,807354922	2,321928095	1,584962501	0
TSPYL6	0	0	0	0	0	0
TSR1	6,686500527	6,727920455	6,50779464	7,129283017	6,700439718	7,011227255
TSR2	6,22881869	6,285402219	6,189824559	7,169925001	7,139551352	7,409390936
TSSC4	4,392317423	4,700439718	4,906890596	5,129283017	4	2
TSSK1B	0	0	0	0	0	0
TSSK2	0	0	0	0	0	0
TSSK3	0	0	0	0	0	0
TSSK4	0	0	0	1	0	0
TSSK6	1	1	1	0	2,321928095	0
TST	4	4,169925001	3,906890596	0	0	2
TSTA3	3,321928095	2,321928095	2,807354922	1	3,700439718	0
TSTD1	7,686500527	7,74819285	7,851749041	7,768184325	7,807354922	7,169925001
TSTD2	6,409390936	6,266786541	6,22881869	7,266786541	7,139551352	7,098032083
TTBK1	0	0	0	0	0	0

TTBK2	7,238404739	7,409390936	7,375039431	7,577428828	7,400879436	7,515699838
TTC1	7,651051691	7,754887502	7,754887502	7,960001932	7,900866808	7,994353437
TTC12	3,807354922	3,807354922	3,169925001	4,700439718	2,321928095	4,64385619
TTC13	5,321928095	5,672425342	5,491853096	6	5,169925001	6,169925001
TTC14	9,826548487	9,71596199	9,791162889	9,586839788	9,245552706	9,116343961
TTC16	3,321928095	0	2,584962501	0	0	0
TTC17	7,839203788	7,845490051	7,965784285	8,266786541	7,924812504	8,144658243
TTC19	7,247927513	7,459431619	7,483815777	8,214319121	7,888743249	8,189824559
TTC21A	1,584962501	3,169925001	3	4,321928095	3	5,169925001
TTC21B	5,781359714	5,832890014	6,087462841	5,832890014	5,977279923	6,247927513
TTC22	2,321928095	1,584962501	1	0	0	2
TTC23	2,807354922	0	0	1	1,584962501	2
TTC23L	0	1	2,584962501	0	0	0
TTC24	0	1,584962501	1,584962501	1	0	0
TTC25	1	1	1	0	0	0
TTC26	2,584962501	3,906890596	3,169925001	5,357552005	5,781359714	6,700439718
TTC27	4,906890596	4,584962501	4,392317423	4,087462841	4,247927513	4,95419631
TTC28	1,584962501	2,807354922	2,584962501	5,614709844	4	3,169925001
TTC28-AS1	5,357552005	5,426264755	5,392317423	6,584962501	5,930737338	6,820178962
TTC29	0	0	0	0	0	0
TTC3	9,992938336	9,93516505	9,881113961	9,658211483	9,529430554	9,22881869
TTC30A	3	2,584962501	2	2,321928095	4,64385619	0
TTC30B	3,906890596	4,087462841	3,584962501	2,807354922	3,700439718	4,64385619
TTC31	5,832890014	5,087462841	5,977279923	5,129283017	4,807354922	2
TTC32	7,409390936	7,693486957	7,636624621	9,238404739	8,672425342	9,605479518
TTC33	6,087462841	6,554588852	6,108524457	6,741466986	6,459431619	6,754887502
TTC34	2,584962501	3,169925001	4	5	5,087462841	3,169925001
TTC36	0	0	0	0	0	0
TTC37	7,839203788	7,820178962	7,554588852	7,864186145	7,50779464	7,491853096
TTC38	4,247927513	4	4,169925001	2,807354922	4,64385619	2
TTC39A	0	0	0	0	0	0
TTC39B	6,87036472	6,754887502	7,392317423	6,906890596	6,700439718	6,62935662
TTC39C	8,204571144	8,17990909	8,21916852	8,654636029	8,566054038	8,400879436
TTC3P1	7,707359132	7,64385619	7,426264755	7,714245518	7,523561956	7,592457037
TTC4	1,584962501	2,584962501	2,584962501	2,807354922	3,321928095	0
TTC5	5,727920455	5,882643049	5,554588852	6,409390936	5,930737338	6,169925001
TTC7A	6,700439718	6,672425342	6,820178962	5,832890014	5,857980995	5,95419631
TTC7B	4,64385619	4,392317423	4,459431619	1	0	3,169925001
TTC8	4,169925001	3,321928095	3	2,321928095	3,321928095	3,807354922
TTC9	6,129283017	5,857980995	6,247927513	6,845490051	6,700439718	6,491853096
TTC9B	0	0	0	0	0	0
TTC9C	5,781359714	6,044394119	5,807354922	6,700439718	6,247927513	6,62935662
TTF1	7,499845887	7,599912842	7,118941073	7,876516947	7,491853096	7,965784285
TTF2	6,321928095	6,539158811	6,741466986	5,832890014	5,930737338	5,554588852
TTI1	4,857980995	4,459431619	4,754887502	4,857980995	4,459431619	4,95419631
TTI2	4,906890596	5,044394119	4,169925001	5	5,169925001	5,554588852
TTK	1,584962501	0	1	1	0	0
TTL	7,426264755	7,392317423	7,554588852	6,06608919	6,129283017	5,554588852
TTL11	2,807354922	2,807354922	2	2,807354922	0	0
TTL110	0	0	0	0	0	0
TTL111	1,584962501	2,321928095	1,584962501	2,321928095	2,321928095	0
TTL112	5,392317423	4,459431619	4,459431619	2,807354922	4	2
TTL12	0	0	0	0	0	0
TTL13	4,459431619	3,906890596	4,459431619	6,06608919	5,169925001	7,098032083
TTL14	6,459431619	6,807354922	6,523561956	3,321928095	5,781359714	3,169925001
TTL15	5,247927513	5,857980995	5,321928095	5,832890014	5,781359714	6,62935662
TTL16	0	0	0	0	0	0
TTL17	3,321928095	4,584962501	3,584962501	5	6,189824559	6,820178962

TLL9	0	0	0	0	0	2
TTN	7,266786541	7,087462841	7,982993575	8,199672345	7,672425342	8,447083226
TPA	0	0	0	0	0	0
TPAL	5	5,523561956	5,129283017	5,523561956	5,977279923	3,807354922
TTR	0	0	1	0	0	3,169925001
TTY1	0	0	0	0	0	0
TTY10	1	0	1	0	0	0
TTY11	0	0	0	0	0	0
TTY12	0	0	0	0	0	0
TTY13	0	0	0	0	0	0
TTY14	1,584962501	0	1	2,807354922	0	2
TTY15	6,06608919	5,857980995	6,06608919	7,022367813	6,942514505	7,209453366
TTY16	0	0	0	0	0	0
TTY17A	0	0	0	0	0	0
TTY17B	0	0	0	0	0	0
TTY17C	0	0	0	0	0	0
TTY18	0	0	0	0	0	0
TTY19	0	0	0	0	0	0
TTY1B	0	0	0	0	0	0
TTY2	0	0	0	0	0	0
TTY20	0	0	0	0	0	0
TTY21	0	0	0	0	0	0
TTY21B	0	0	0	0	0	0
TTY22	0	0	0	0	0	0
TTY23	0	0	0	0	0	0
TTY23B	0	0	0	0	0	0
TTY2B	0	0	0	0	0	0
TTY3	0	0	0	0	0	0
TTY4	0	0	0	0	0	0
TTY4B	0	0	0	0	0	0
TTY4C	0	0	0	0	0	0
TTY5	0	0	0	0	0	0
TTY6	0	0	0	0	0	0
TTY6B	0	0	0	0	0	0
TTY7	0	0	0	0	0	0
TTY7B	0	0	0	0	0	0
TTY8	0	0	0	0	0	0
TTY8B	0	0	0	0	0	0
TTY9B	0	0	0	0	0	0
TYH1	0	0	0	2,321928095	2,321928095	3,169925001
TYH2	5,129283017	5,392317423	5,169925001	4,700439718	4,807354922	3,807354922
TYH3	9,019590728	9,202123824	9,266786541	5,523561956	6,087462841	5,700439718
TUB	0	0	0	0	0	0
TUBA1A	7,707359132	7,761551232	7,276124405	6,409390936	6,741466986	5,169925001
TUBA1B	10,24079133	10,38694025	10,05120894	7,813781191	8,299208018	7,64385619
TUBA1C	9,447083226	9,707359132	9,445014846	7,303780748	7,994353437	7,46760555
TUBA3C	0	0	0	0	0	0
TUBA3D	0	0	0	0	0	0
TUBA3E	0	0	0	0	0	0
TUBA4A	7,651051691	8,082149041	7,936637939	8,442943496	8,816983623	7,832890014
TUBA4B	0	0	0	0	1,584962501	0
TUBA8	0	0	1,584962501	1	1,584962501	0
TUBAL3	0	0	0	0	0	0
TUBB	8,539158811	8,710806434	8,951284715	7,839203788	7,876516947	7,622051819
TUBB1	3,700439718	2,584962501	3,169925001	5,247927513	5,64385619	6,409390936
TUBB2A	4	4,087462841	4	0	0	0
TUBB2B	0	0	0	0	1,584962501	0
TUBB3	0	0	0	2,321928095	0	4,64385619

TUBB4A	0	0	1	0	0	0
TUBB4B	6,14974712	6,189824559	6,375039431	3,807354922	4,459431619	3,807354922
TUBB6	6,475733431	6,754887502	6,599912842	0	1,584962501	0
TUBB8	0	0	0	0	0	0
TUBBP5	1,584962501	0	1	4,523561956	3,700439718	4,95419631
TUBD1	5,129283017	4,857980995	4,392317423	5,700439718	5,459431619	5,700439718
TUBE1	5,491853096	5,129283017	4,64385619	5,614709844	5,459431619	4,321928095
TUBG1	4,392317423	5,169925001	4,64385619	3,807354922	3	0
TUBG2	2,584962501	1,584962501	2,807354922	1	2,321928095	0
TUBGCP2	7,199672345	7,022367813	7,159871337	6,977279923	7,044394119	6,820178962
TUBGCP3	6,807354922	7,098032083	7,108524457	7,022367813	6,700439718	6,820178962
TUBGCP4	4,95419631	5,426264755	5,321928095	5,357552005	4,95419631	4,95419631
TUBGCP5	6,266786541	6,087462841	6,108524457	6,06608919	5,554588852	6,409390936
TUBGCP6	5,321928095	5,357552005	5,247927513	5,129283017	5,169925001	3,807354922
TUFM	7,845490051	7,971543554	7,459431619	7,942514505	7,900866808	8,016808288
TUFT1	3,584962501	4,523561956	3,807354922	1	0	0
TUG1	8,611024797	8,632995197	8,768184325	9,47370575	9,192292814	9,672425342
TULP1	0	0	0	0	0	0
TULP2	0	0	0	0	0	0
TULP3	5,64385619	5,169925001	5,906890596	5,882643049	6,285402219	5,95419631
TULP4	7,787902559	7,73470962	7,77478706	7,515699838	7,888743249	7,787902559
TUSC1	2,321928095	2,584962501	2,584962501	0	0	0
TUSC2	7,988684687	7,832890014	7,707359132	8,204571144	8,276124405	8,108524457
TUSC3	0	0	0	1	0	0
TUT1	2,807354922	2,807354922	3	4,087462841	4,64385619	4,321928095
TWF1	6,977279923	6,569855608	6,426264755	6,50779464	6,741466986	6,700439718
TWF2	7,54689446	7,794415866	8,082149041	6,06608919	6,882643049	6,409390936
TWIST1	0	0	0	0	0	0
TWIST2	0	0	0	0	0	0
TWISTNB	7,055282436	6,845490051	6,781359714	7,592457037	7,247927513	7,832890014
TWSG1	5,491853096	5,672425342	5,614709844	5,129283017	4,64385619	3,169925001
TXK	5,357552005	4,754887502	4,754887502	6,189824559	5,781359714	6,491853096
TXLNA	6,409390936	5,977279923	6,108524457	5,459431619	5,930737338	5,169925001
TXLNB	4,906890596	4,754887502	4,754887502	3,807354922	3,321928095	0
TXLNG	6,988684687	6,781359714	6,658211483	7,577428828	7,266786541	7,515699838
TXN	10,00281502	9,756556323	9,93516505	8,321928095	8,558420713	8,515699838
TXN2	6,375039431	6,189824559	6,247927513	5,357552005	5,781359714	5,357552005
TXNDC11	6,50779464	6,442943496	6,266786541	6,321928095	6,658211483	6,247927513
TXNDC12	4,64385619	3,700439718	4	5	4	2
TXNDC15	6,686500527	6,754887502	6,832890014	6,459431619	6,189824559	5,95419631
TXNDC16	5,392317423	4,95419631	4,169925001	4,087462841	4,247927513	3,169925001
TXNDC17	7,46760555	7,417852515	7,515699838	5,357552005	5,930737338	5,832890014
TXNDC2	0	0	0	0	0	0
TXNDC5	3,459431619	3,906890596	3,169925001	2,807354922	1,584962501	3,169925001
TXNDC8	1	0	0	0	0	0
TXNDC9	5,672425342	5,727920455	5,491853096	3,807354922	4,807354922	3,807354922
TXNIP	11,81097322	11,68123841	11,66400276	11,00632608	11,00632608	10,87036472
TXNL1	7,451211112	7,06608919	7,22881869	7,960001932	7,584962501	7,994353437
TXNL4A	8,194756854	7,845490051	7,820178962	7,826548487	7,924812504	7,761551232
TXNL4B	3,807354922	4	4,247927513	4,523561956	4,64385619	3,807354922
TXNRD1	8,948367232	8,971543554	9,121533517	8,224001674	8,299208018	8,636624621
TXNRD2	3,584962501	2,321928095	3	2,807354922	3	2
TXNRD3	0	1,584962501	1,584962501	3,807354922	0	2
TYK2	5,357552005	5,614709844	5,584962501	5,459431619	5,459431619	4,321928095
TYMP	8,022367813	8,21916852	8,361943774	5,247927513	4,64385619	5,169925001
TYMS	3,700439718	3,321928095	3,807354922	3,807354922	4,247927513	0
TYR	0	0	0	0	0	0
TYRO3	0	0	0	1	0	2

TYRO3P	0	0	0	0	0	0
TYROBP	9,689997971	9,917372079	9,764871591	7,076815597	7,348728154	6,882643049
TYRP1	1	1	0	0	0	0
TYSND1	4,700439718	5,392317423	5,357552005	5,930737338	5,64385619	4,321928095
TYW1	6,189824559	5,727920455	5,672425342	6,62935662	6,189824559	6,247927513
TYW1B	2,807354922	3,321928095	4,523561956	0	2,321928095	2
TYW3	7,475733431	7,129283017	7,366322214	7,813781191	7,584962501	7,672425342
TYW5	4,459431619	4,700439718	4,754887502	5,357552005	6,129283017	6,409390936
U2AF1	3,807354922	2,321928095	3,169925001	3,807354922	3,321928095	2
U2AF1L4	1	1,584962501	0	2,321928095	3,321928095	0
U2AF2	7,693486957	8,17990909	8,370687407	8,471675214	8,515699838	8,129283017
U2SURP	9,612868497	9,688250309	9,656424863	10,27844946	10,09407769	10,28424575
UACA	5,426264755	5,169925001	5,209453366	4,087462841	4,459431619	3,169925001
UAP1	5,95419631	6,108524457	5,321928095	3,321928095	5,285402219	2
UAP1L1	4,95419631	5,169925001	5,247927513	3,807354922	4,459431619	0
UBA1	5,807354922	6,108524457	6,169925001	5,754887502	5,459431619	5,700439718
UBA2	8,413627929	8,335390355	8,294620749	8,731319031	8,714245518	8,87958325
UBA3	7,658211483	7,483815777	7,159871337	7,794415866	7,807354922	8,159871337
UBA5	7,434628228	7,303780748	7,62935662	7,22881869	7,247927513	6,700439718
UBA52	9,531381461	9,609178738	9,625708843	10,45532722	10,50481899	10,56033283
UBA6	8,22881869	7,960001932	8,159871337	8,276124405	8,14974712	8,129283017
UBA7	5,129283017	5,285402219	5,727920455	6	5,977279923	5,832890014
UBAC1	8,06608919	7,906890596	7,918863237	7,285402219	7,209453366	7,055282436
UBAC2	6,64385619	7,044394119	6,95419631	7,554588852	7,569855608	7,787902559
UBAC2-AS1	0	0	1	1	0	0
UBAP1	5,727920455	5,977279923	6,044394119	6,700439718	6,658211483	6,754887502
UBAP1L	2,807354922	3,169925001	2	2,321928095	1,584962501	0
UBAP2	7,622051819	7,665335917	7,569855608	8,64385619	8,625708843	8,826548487
UBAP2L	7,139551352	7,209453366	7,400879436	7,554588852	7,383704292	7,700439718
UBASH3A	5,64385619	5,832890014	5,491853096	6,845490051	6,285402219	6,491853096
UBASH3B	6,95419631	6,781359714	7,108524457	7,754887502	7,108524457	7,813781191
UBB	9,21916852	9,273795599	9,430452552	8,64385619	8,851749041	8,857980995
UBC	9,754887502	10,13314221	10,22641219	8,797661526	9,079484784	8,816983623
UBD	4,523561956	5,357552005	4,247927513	0	0	0
UBE2A	7,73470962	7,515699838	7,515699838	7,442943496	6,882643049	6,820178962
UBE2B	9,48984796	9,426264755	9,424166289	9,493855449	9,445014846	9,247927513
UBE2C	1,584962501	2,584962501	1	2,807354922	1,584962501	2
UBE2D1	8,654636029	8,499845887	8,400879436	6,658211483	7,159871337	7,312882955
UBE2D2	9,147204925	9,326429487	9,243173983	9,405141463	9,519636253	9,105908509
UBE2D3	10,31854281	10,36194377	10,22641219	10,50084188	10,4604559	10,32755264
UBE2D4	4,169925001	4,700439718	3,807354922	0	1,584962501	0
UBE2DNL	0	0	0	0	0	0
UBE2E1	8,885696373	9,041659152	8,977279923	8,383704292	8,607330314	8,392317423
UBE2E2	6,658211483	6,554588852	6,339850003	2,321928095	3	2
UBE2E3	6,614709844	6,189824559	6,087462841	6,459431619	6,087462841	4,64385619
UBE2F	7,392317423	7,409390936	7,400879436	7,247927513	7,17990909	6,930737338
UBE2F-SCLY	0	0	0	0	0	0
UBE2G1	6,741466986	6,965784285	6,741466986	7,531381461	7,658211483	7,592457037
UBE2G2	7,139551352	7,276124405	7,14974712	7,475733431	7,781359714	8,06608919
UBE2H	8,344295908	8,262094845	8,321928095	8,836050355	8,682994584	8,475733431
UBE2I	8,625708843	9,025139562	9,049848549	9,224001674	9,296916207	9,315149562
UBE2J1	8,839203788	8,95419631	8,87036472	8,409390936	8,714245518	8,348728154
UBE2J2	6,584962501	6,569855608	6,599912842	7,076815597	6,882643049	7,209453366
UBE2K	8,54689446	8,491853096	8,693486957	8,383704292	8,434628228	8,426264755
UBE2L3	6,832890014	7,238404739	7,055282436	7,700439718	7,366322214	7,622051819
UBE2L6	8,558420713	8,573647187	8,682994584	8,071462363	8,14974712	8,257387843
UBE2M	5	5,087462841	5,129283017	4,087462841	5,64385619	3,169925001
UBE2MP1	0	0	0	0	0	0

UBE2N	8,204571144	8,049848549	7,960001932	8,396604781	8,566054038	8,768184325
UBE2NL	1	0	0	0	0	0
UBE2O	7	7,285402219	7,62935662	7,499845887	7,876516947	8,016808288
UBE2Q1	8,487840034	8,519636253	8,487840034	8,64385619	8,447083226	8,330916878
UBE2Q2	7,918863237	7,87036472	7,912889336	8,357552005	8,618385502	8,257387843
UBE2Q2P1	4,857980995	5,169925001	5	6,375039431	5,64385619	6,491853096
UBE2Q2P2	3,321928095	4	4	4,700439718	4,459431619	4,95419631
UBE2QL1	0	0	0	0	0	0
UBE2R2	8,909893084	8,820178962	8,816983623	9,068778278	8,924812504	8,845490051
UBE2S	0	1,584962501	2	0	1,584962501	0
UBE2T	4	4,523561956	4,087462841	1	1,584962501	2
UBE2U	0	0	0	0	0	0
UBE2V1	2,321928095	3,584962501	2,807354922	2,807354922	0	4,321928095
UBE2V2	8,379378367	8,276124405	8,22881869	8,584962501	8,618385502	8,475733431
UBE2W	7,515699838	7,312882955	7,426264755	7,14974712	7,209453366	7,247927513
UBE2Z	8,939579214	9,221587121	9,214319121	8,912889336	9,126704473	8,845490051
UBE3A	9,445014846	9,315149562	9,368506462	9,787902559	9,509775004	9,696967526
UBE3B	6,807354922	7,199672345	7,055282436	7,266786541	7	7,375039431
UBE3C	8,038918989	7,95419631	7,87036472	7,960001932	7,820178962	7,965784285
UBE3D	4,584962501	3,584962501	4,087462841	6	5,554588852	6,409390936
UBE4A	7,442943496	7,169925001	7,14974712	7,357552005	7,17990909	7,098032083
UBE4B	7,055282436	7	6,942514505	7,129283017	7,087462841	7,375039431
UBFD1	6,741466986	6,768184325	6,64385619	7,129283017	6,857980995	6,820178962
UBIAD1	5,882643049	6,129283017	6,044394119	5,754887502	6,129283017	5,700439718
UBL3	9,030667136	8,982993575	8,839203788	8,897845456	8,784634846	8,724513853
UBL4A	5,807354922	6,14974712	5,857980995	6,22881869	6,807354922	6,169925001
UBL4B	0	0	0	0	0	0
UBL5	8,426264755	8,523561956	8,30833903	8,426264755	8,74819285	8,558420713
UBL7	3,700439718	2,584962501	2,807354922	1	0	0
UBLCP1	7,357552005	7,475733431	7,607330314	7,672425342	7,417852515	7,894817763
UBN1	9,440869168	9,463524373	9,503825738	9,46760555	9,658211483	9,583082768
UBN2	7,95419631	7,851749041	7,900866808	7,942514505	7,864186145	7,832890014
UBOX5	2,584962501	3,321928095	3,321928095	4,321928095	2,321928095	2
UBP1	8,011227255	8,011227255	7,851749041	8,243173983	8,092757141	8,016808288
UBQLN1	8,46760555	8,751544059	8,554588852	8,832890014	8,682994584	8,927777962
UBQLN2	7,918863237	7,876516947	7,994353437	8,071462363	7,672425342	8,049848549
UBQLN3	0	0	0	0	0	0
UBQLN4	0	2,321928095	2	0	1,584962501	0
UBQLNL	0	0	0	2,321928095	2,321928095	3,169925001
UBR1	8,164906927	8,033423002	8,243173983	8,636624621	8,714245518	8,836050355
UBR2	8,459431619	8,554588852	8,64385619	8,636624621	8,45532722	8,758223215
UBR3	6,930737338	7,076815597	7,033423002	7,321928095	7,139551352	7,055282436
UBR4	7,459431619	7,321928095	7,459431619	8,060695932	7,876516947	8,379378367
UBR5	8,820178962	8,77478706	8,951284715	9,095397023	8,87958325	9,144658243
UBR7	6,768184325	6,459431619	6,426264755	6,62935662	6,375039431	6,247927513
UBTD1	2,584962501	3,700439718	3,584962501	0	0	0
UBTD2	6,62935662	6,845490051	6,918863237	5,523561956	6,087462841	3,169925001
UBTF	7,46760555	7,714245518	7,714245518	7,960001932	8,113742166	7,832890014
UBTFL1	0	0	0	0	0	0
UBXN1	8,515699838	8,689997971	8,696967526	9,238404739	9,436711542	9,407267764
UBXN10	0	0	0	0	0	0
UBXN11	4	2,807354922	2,584962501	2,321928095	0	0
UBXN2A	6,189824559	6,375039431	6,303780748	6,977279923	7	7,129283017
UBXN2B	5,64385619	5,247927513	5,459431619	5,523561956	4,95419631	5,554588852
UBXN4	9,481799432	9,430452552	9,357552005	9,636624621	9,575539247	9,6794801
UBXN6	7,499845887	7,562242424	7,62935662	7,076815597	7,434628228	7,276124405
UBXN7	8,829722735	8,882643049	8,829722735	9,233619677	9	9,315149562
UBXN8	5	5,129283017	5	5,523561956	4,459431619	5,169925001

UCA1	0	0	0	0	0	0
UCLH1	2,807354922	1,584962501	2,584962501	1	1,584962501	0
UCLH3	5,392317423	5,247927513	5	3,807354922	3	0
UCLH5	8,294620749	7,888743249	8,082149041	8,199672345	8,159871337	8,189824559
UCK1	4,321928095	4,700439718	5,129283017	2,807354922	4,247927513	5,169925001
UCK2	3,584962501	4,321928095	3,584962501	1	0	0
UCKL1	5,357552005	5,426264755	5,882643049	4,087462841	4,807354922	3,807354922
UCMA	0	0	0	0	0	0
UCN	1	3,700439718	3,321928095	5,129283017	4,64385619	5,357552005
UCN2	0	0	0	0	0	0
UCN3	0	0	0	0	0	0
UCP1	0	0	0	0	0	0
UCP2	6,832890014	7,022367813	7,087462841	7,285402219	7,285402219	7,247927513
UCP3	3,459431619	3	2	2,321928095	2,321928095	2
UEVLD	6,965784285	7,303780748	7,087462841	7,727920455	7,693486957	8,033423002
UFC1	8,515699838	8,826548487	8,724513853	8,86727874	9,005624549	8,948367232
UFL1	8,330916878	8,113742166	8,28077077	8,584962501	8,276124405	8,475733431
UFM1	8,797661526	8,707359132	8,781359714	8,948367232	8,991521846	9
UFSP1	0	1	0	0	0	0
UFSP2	6,977279923	6,554588852	6,882643049	6,700439718	6,942514505	6,62935662
UGCG	9,209453366	9,087462841	9,172427509	9,038918989	9,121533517	9,071462363
UGDH	6,62935662	6,882643049	6,50779464	6,321928095	6,614709844	6,321928095
UGGT1	7,832890014	7,539158811	7,839203788	7,876516947	7,614709844	7,787902559
UGGT2	5,129283017	5,321928095	5,169925001	5,129283017	5,087462841	5,357552005
UGP2	7,948367232	7,888743249	7,864186145	7,982993575	7,832890014	7,918863237
UGT1A1	0	0	0	0	0	0
UGT1A10	0	0	0	0	0	0
UGT1A3	0	0	0	0	0	0
UGT1A4	0	0	0	0	0	0
UGT1A5	0	0	0	0	0	0
UGT1A6	0	0	0	0	0	0
UGT1A7	0	0	0	0	0	0
UGT1A8	0	0	0	0	0	0
UGT1A9	0	0	0	0	0	0
UGT2A1	0	0	0	0	0	2
UGT2A2	0	0	0	0	0	0
UGT2A3	0	0	0	0	0	0
UGT2B10	0	0	0	0	0	0
UGT2B11	1,584962501	2,807354922	2,807354922	4,857980995	4,247927513	5,554588852
UGT2B15	0	2,321928095	0	2,321928095	3	2
UGT2B17	0	0	0	0	0	0
UGT2B28	0	0	0	0	0	0
UGT2B4	0	0	0	0	0	0
UGT2B7	1	4,169925001	3,169925001	4,321928095	4,95419631	5,95419631
UGT3A1	2,807354922	3,584962501	3,584962501	5	6,189824559	6,882643049
UGT3A2	0	0	0	0	0	2
UGT8	2,807354922	3	2	3,321928095	1,584962501	3,807354922
UHKM1	9,64385619	9,73978061	9,776433032	9,717676423	9,781359714	9,73470962
UHRF1	1	1	0	0	0	0
UHRF1BP1	5,832890014	5,459431619	5,807354922	4,321928095	3,700439718	4,64385619
UHRF1BP1L	7,087462841	6,918863237	6,942514505	6	5,857980995	5,95419631
UHRF2	7,189824559	7,159871337	7,209453366	7,459431619	7,672425342	7,592457037
UIMC1	6,894817763	6,686500527	6,95419631	7,577428828	7,672425342	7,622051819
ULBP1	0	0	0	0	0	0
ULBP2	0	0	0	0	0	0
ULBP3	0	0	0	0	0	0
ULK1	6,129283017	6,209453366	6,108524457	7	6,658211483	6,491853096
ULK2	5,64385619	5,392317423	5,129283017	6,22881869	5,977279923	5,832890014

ULK3	6,882643049	6,672425342	6,87036472	6,321928095	6,768184325	5,357552005
ULK4	4,169925001	4,169925001	5,209453366	3,321928095	4,247927513	5,169925001
ULK4P1	0	0	0	0	0	0
ULK4P2	0	0	0	0	0	0
ULK4P3	0	0	0	0	0	0
UMOD	0	0	0	0	0	0
UMODL1	0	0	0	0	0	0
UMPS	6,339850003	6,22881869	6,087462841	5,754887502	6,129283017	5,554588852
UNC119	6,741466986	6,894817763	7,06608919	6,977279923	7,108524457	6,820178962
UNC119B	4,247927513	5,044394119	4,459431619	5,129283017	4,807354922	3,169925001
UNC13A	0	0	0	1	0	4,321928095
UNC13B	3	2,584962501	3,700439718	0	0	0
UNC13C	2,584962501	2,807354922	2,584962501	2,321928095	2,321928095	4,95419631
UNC13D	4,64385619	5,321928095	5,754887502	5,247927513	4,64385619	4,321928095
UNC45A	5,727920455	5,459431619	5,209453366	5,700439718	4,64385619	4,321928095
UNC45B	2,321928095	0	2	2,321928095	1,584962501	0
UNC50	6,475733431	6,392317423	6,599912842	7,209453366	6,965784285	6,965784285
UNC5A	0	0	0	0	0	0
UNC5B	2,807354922	0	0	0	0	0
UNC5C	2,321928095	2,321928095	0	3,321928095	0	3,169925001
UNC5CL	3,807354922	4,087462841	4,087462841	5,459431619	4,64385619	5,169925001
UNC5D	1,584962501	2,584962501	2	3,807354922	4,459431619	5,169925001
UNC79	2,321928095	1,584962501	2	1	1,584962501	4,321928095
UNC80	2,584962501	0	2	2,321928095	3	4,64385619
UNC93A	0	0	0	0	0	0
UNC93B1	5,209453366	4,700439718	5,247927513	2,321928095	3,321928095	0
UNCX	0	0	0	0	0	0
UNG	6,392317423	6,658211483	6,285402219	6,22881869	6,807354922	6,06608919
UNK	5,807354922	5,523561956	5,426264755	6,189824559	6,375039431	6,169925001
UNKL	6,392317423	5,95419631	5,930737338	6,768184325	6,768184325	7,011227255
UOX	0	0	0	0	0	0
UPB1	1,584962501	2,321928095	3	3,807354922	4,247927513	6,06608919
UPF1	6,714245518	7,076815597	6,857980995	7,826548487	7,584962501	7,46760555
UPF2	8,379378367	8,392317423	8,614709844	8,968666793	8,985841937	8,816983623
UPF3A	6,768184325	6,50779464	6,781359714	7	7,321928095	7,409390936
UPF3B	8,400879436	8,271463028	8,199672345	9,055282436	8,614709844	9,144658243
UPK1A	0	0	0	4,087462841	4,247927513	3,169925001
UPK1B	0	0	0	0	0	0
UPK2	0	0	0	2,807354922	2,321928095	3,169925001
UPK3A	0	0	0	0	0	0
UPK3B	0	0	0	0	0	0
UPP1	5,95419631	5,392317423	6,285402219	6,22881869	6,614709844	6,491853096
UPP2	0	0	0	0	0	0
UPRT	5,930737338	5,169925001	5,491853096	5,247927513	5,459431619	5,700439718
UQCR10	7,266786541	7,303780748	7,400879436	7,076815597	7,312882955	6,569855608
UQCR11	7,845490051	7,426264755	7,392317423	7,672425342	7,832890014	7,894817763
UQCRCB	10,21674586	10,28886607	10,15481811	10,83051521	10,85486838	10,80251637
UQCRCBP1	3,906890596	3,807354922	2	4,857980995	5,087462841	4,95419631
UQCRC1	5,977279923	5,95419631	5,672425342	4,321928095	5,087462841	4,321928095
UQCRC2	8,592457037	8,409390936	8,252665432	8,392317423	8,370687407	7,942514505
UQCRCFS1	7,707359132	7,321928095	7,276124405	7,375039431	7,108524457	7,247927513
UQCRH	8,77478706	8,791162889	8,700439718	9,238404739	9,20701432	9,28077077
UQCRCQ	8,005624549	8,016808288	7,820178962	7,321928095	7,781359714	7,011227255
URB1	4,64385619	4,392317423	4,169925001	3,321928095	5,392317423	3,169925001
URB2	5,491853096	5,64385619	5,554588852	5,523561956	5,930737338	6,569855608
URGCP	4,95419631	5	5,357552005	5,459431619	5,781359714	5,357552005
URGCP-MRPS24	0	0	0	0	0	0
URI1	8,721099189	8,885696373	8,607330314	9,271463028	9,290018847	9,28771238

URM1	6,942514505	7,17990909	6,569855608	7,303780748	7,266786541	7,129283017
UROC1	0	0	0	0	0	0
UROC	6,321928095	6,672425342	6,108524457	6,189824559	6,584962501	5,357552005
UROS	4,857980995	5,169925001	4,64385619	4,321928095	4,95419631	4,95419631
USE1	4,754887502	4,523561956	3,906890596	4,857980995	5,087462841	4,64385619
USF1	1	3,584962501	2,807354922	2,807354922	1,584962501	0
USF2	8,682994584	8,845490051	9,005624549	8,64385619	8,724513853	8,647458426
USH1C	0	0	0	0	0	0
USH1G	0	0	0	0	0	0
USH2A	2,807354922	3,169925001	1	4,523561956	5,087462841	6,06608919
USHBP1	0	0	0	0	0	0
USO1	8,214319121	8,344295908	8,299208018	7,813781191	7,888743249	7,851749041
USP1	9,071462363	9,052568051	9,033423002	9,394462695	9,424166289	9,269126679
USP10	8,159871337	8,28077077	8,535275377	8,654636029	8,682994584	8,836050355
USP11	5,906890596	6,129283017	6,339850003	5,357552005	6,807354922	6,06608919
USP12	6,988684687	6,977279923	6,569855608	7,022367813	7	6,62935662
USP13	4,857980995	4,754887502	4,700439718	5,832890014	5,392317423	4,64385619
USP14	7,982993575	7,942514505	7,882643049	8,174925683	8,194756854	8,515699838
USP15	9,321928095	9,262094845	9,438791853	9,523561956	9,434628228	9,955649908
USP16	9,126704473	8,968666793	9,22881869	9,379378367	8,991521846	9,339850003
USP17L2	0	0	0	0	0	0
USP17L5	0	0	0	0	0	0
USP17L6P	0	0	0	0	0	0
USP18	3,459431619	1,584962501	3	2,807354922	3	3,169925001
USP19	6,794415866	6,942514505	7,06608919	7,076815597	7,159871337	6,491853096
USP2	0	0	0	0	0	0
USP20	4,584962501	5,087462841	5,491853096	6,06608919	6,247927513	5,554588852
USP21	3,807354922	4,169925001	4,247927513	4,857980995	3,321928095	4,64385619
USP22	8,577428828	8,768184325	8,426264755	8,758223215	8,654636029	8,948367232
USP24	7,50779464	7,375039431	7,8008999	7,658211483	7,807354922	7,672425342
USP25	8,087462841	7,8008999	7,62935662	8,071462363	8,139551352	8,108524457
USP26	0	0	0	0	0	0
USP27X	5,247927513	5,247927513	5,129283017	5,357552005	5,392317423	4,64385619
USP28	7,392317423	7,417852515	7,321928095	6,906890596	6,807354922	5,832890014
USP29	0	0	1	1	0	0
USP3	8,21916852	8,049848549	8,022367813	8,409390936	8,257387843	8,622051819
USP30	4,700439718	5	4,857980995	5,247927513	5,285402219	6,06608919
USP31	5,169925001	4,754887502	5,247927513	4,087462841	2,321928095	3,169925001
USP32	5,491853096	5	5,392317423	5,247927513	5,087462841	3,807354922
USP32P1	3,807354922	3,700439718	4,169925001	2,321928095	0	4,321928095
USP32P2	0	0	0	0	0	0
USP33	9,044394119	8,930737338	9,184875343	9,211888295	9,342074668	9,375039431
USP34	9,126704473	9,11113567	9,209453366	9,319672121	9,049848549	9,116343961
USP35	3,584962501	2,584962501	2,807354922	4,321928095	1,584962501	2
USP36	7,930737338	7,906890596	8,174925683	8,661778098	8,471675214	8,686500527
USP37	6,50779464	6,614709844	6,64385619	6,882643049	7,285402219	6,965784285
USP38	7,409390936	7,375039431	6,930737338	7,339850003	7,554588852	7,672425342
USP39	6,06608919	6,285402219	6,087462841	6,820178962	6,658211483	7,169925001
USP4	6,754887502	6,658211483	6,285402219	6,22881869	6,539158811	6,882643049
USP40	6,14974712	5,727920455	6,459431619	5,832890014	6,087462841	6,569855608
USP42	6,857980995	6,754887502	7,06608919	7,531381461	7,209453366	7,672425342
USP43	3,321928095	4,459431619	3	6,129283017	6,375039431	6,06608919
USP44	4,64385619	4,906890596	5	6,189824559	6,658211483	6,820178962
USP45	5,044394119	4,523561956	5,169925001	5,754887502	5,285402219	5,554588852
USP46	5,554588852	5,523561956	5,491853096	4,321928095	4,459431619	3,169925001
USP47	9,211888295	8,977279923	8,918863237	9,531381461	9,346513733	9,204571144
USP48	9,084808388	9,192292814	9,167418146	9,645658432	9,584962501	9,625708843
USP49	4,700439718	4,459431619	4,754887502	6,129283017	5,459431619	6,569855608

USP5	5,169925001	4,857980995	5,169925001	4,523561956	4,459431619	2
USP50	0	0	0	0	0	0
USP51	4,321928095	3,807354922	3,807354922	4,087462841	3	2
USP53	6,686500527	6,658211483	6,988684687	6,95419631	7,348728154	7,011227255
USP54	2,321928095	2,584962501	1	1	1,584962501	2
USP6	0	0	0	4,700439718	3,321928095	5,700439718
USP6NL	6,569855608	6,539158811	6,599912842	5,247927513	4,459431619	5,554588852
USP7	9,465566405	9,415741768	9,558420713	9,977279923	10,02928723	10,13699111
USP8	9,182394353	9,049848549	9,057991723	9,430452552	9,364134655	9,642051693
USP9X	8,596189756	8,668884984	8,851749041	9,068778278	8,836050355	9,154818109
USP9Y	7,539158811	7,554588852	8,016808288	8,927777962	8,62935662	9,041659152
USPL1	6,672425342	6,409390936	6,409390936	6,554588852	6,321928095	7,098032083
UST	3,807354922	3,169925001	3	0	1,584962501	3,169925001
UTF1	0	0	0	0	0	0
UTP14A	5,357552005	5,169925001	5,584962501	5,523561956	5,64385619	6,321928095
UTP14C	6,62935662	6,882643049	6,303780748	7,577428828	7,139551352	7,098032083
UTP15	5,781359714	5,614709844	5,754887502	6,129283017	6,459431619	6,169925001
UTP18	7,451211112	7,483815777	7,475733431	7,994353437	7,658211483	8,049848549
UTP20	6,266786541	5,95419631	6,285402219	6,845490051	6,584962501	7,46760555
UTP23	7,636624621	7,577428828	7,276124405	7,851749041	8,082149041	8,129283017
UTP3	8,73809226	8,820178962	8,758223215	8,375039431	8,396604781	8,271463028
UTP6	7,442943496	7,312882955	7,011227255	7,189824559	7,209453366	7,247927513
UTRN	9,6794801	9,583082768	9,995767151	9,818582177	9,712527	9,726218159
UTS2	0	1,584962501	0	0	0	0
UTS2R	0	0	0	0	0	0
UTY	6,022367813	5,930737338	6,409390936	7,577428828	7,321928095	7,515699838
UVRAG	8,022367813	7,876516947	7,882643049	7,475733431	7,475733431	7,491853096
UXS1	8,703903573	8,84862294	8,882643049	9,087462841	9,240791332	8,991521846
UXT	7,087462841	7,17990909	7,087462841	8,451211112	8,434628228	8,503825738
VAC14	3,807354922	3	4	3,321928095	0	0
VAMP1	4,95419631	5,247927513	4,95419631	5	3,700439718	3,169925001
VAMP2	7,499845887	7,768184325	7,523561956	8,392317423	8,503825738	8,636624621
VAMP3	7	7,011227255	6,882643049	6,189824559	5,554588852	6,247927513
VAMP4	7,098032083	7,285402219	7,108524457	7,339850003	6,942514505	6,930737338
VAMP5	5,906890596	5,882643049	5,523561956	3,321928095	3	2
VAMP7	6,409390936	6,321928095	6,321928095	6,794415866	6,459431619	6,409390936
VAMP8	7,960001932	8,257387843	8,060695932	6,658211483	6,857980995	5,832890014
VANGL1	3,584962501	3,584962501	2	0	1,584962501	0
VANGL2	0	0	0	0	0	0
VAPA	9,11113567	9,052568051	8,82336724	8,980139578	9,098032083	9,407267764
VAPB	6,475733431	6,658211483	6,64385619	7,658211483	7,721099189	8,087462841
VARS	4,247927513	4,321928095	4	4,087462841	3,321928095	3,169925001
VARS2	2,584962501	4,169925001	3,584962501	2,321928095	4	4,95419631
VASH1	4,584962501	5,523561956	5,209453366	2,321928095	1,584962501	0
VASH2	1	1,584962501	0	2,321928095	0	3,807354922
VASN	0	0	0	0	0	0
VASP	9,019590728	9,100662339	9,095397023	7,794415866	8,082149041	8,129283017
VAT1	7,266786541	7,658211483	7,693486957	5	4,64385619	3,169925001
VAT1L	0	0	0	0	0	0
VAV1	6,754887502	6,930737338	7,14974712	6,882643049	7,022367813	6,700439718
VAV2	5	5,129283017	5	5,523561956	4,459431619	5,554588852
VAV3	6,321928095	6,475733431	5,906890596	6,321928095	6,285402219	6,247927513
VAX1	0	0	0	0	0	3,169925001
VAX2	0	0	0	0	0	0
VBP1	7,330916878	7,17990909	6,754887502	7,055282436	6,918863237	6,820178962
VCAM1	2,807354922	3	1	1	4,64385619	3,807354922
VCAN	8,396604781	8,388017285	8,17990909	5,459431619	6,409390936	6,569855608
VCL	7,499845887	7,417852515	7,209453366	6,321928095	6,087462841	5,357552005

VCP	8,764871591	8,968666793	8,936637939	8,787902559	8,707359132	8,77807713
VCP1P1	8,204571144	8,076815597	8,022367813	8,224001674	7,965784285	8,558420713
VCX	0	0	0	0	0	0
VCX2	0	0	0	0	0	0
VCX3A	0	0	0	0	0	0
VCX3B	0	0	0	0	0	0
VCY	0	0	0	0	0	0
VCY1B	0	0	0	0	0	0
VDAC1	7,383704292	7,434628228	7,247927513	7,022367813	7,044394119	7,169925001
VDAC2	7,562242424	7,475733431	7,442943496	7,768184325	7,864186145	8,033423002
VDAC3	8,139551352	8,344295908	8,353146825	7,994353437	8,113742166	7,64385619
VDR	6,189824559	6,285402219	6,266786541	2,321928095	4,459431619	2
VEGFA	7,73470962	7,562242424	7,64385619	5,700439718	6,807354922	4,95419631
VEGFB	6,95419631	7,011227255	6,882643049	7	6,741466986	5,700439718
VEGFC	0	0	0	0	0	0
VENTX	1	0	1	0	0	0
VENTXP1	0	0	0	0	0	0
VENTXP7	0	0	0	0	0	0
VEPH1	1	1	0	3,807354922	1,584962501	0
VEZF1	8,330916878	8,144658243	8,118941073	8,174925683	8,447083226	7,918863237
VEZT	6,965784285	6,918863237	7,098032083	7,129283017	7,209453366	7,247927513
VGf	0	0	0	0	0	0
VGLL1	0	0	0	0	0	0
VGLL2	0	0	0	0	0	0
VGLL3	0	0	0	1	0	3,169925001
VGLL4	6,741466986	6,672425342	7	7,64385619	7,383704292	7,348728154
VHL	7,636624621	7,754887502	7,515699838	7,741466986	7,942514505	7,64385619
VHLL	0	0	0	0	0	0
VIL1	0	1	0	4,321928095	3,321928095	5,169925001
VILL	1,584962501	2,807354922	2	2,321928095	2,321928095	4,321928095
VIM	11,2227949	11,0768156	10,97513146	8,810571635	9,17990909	8,515699838
VIP	0	0	0	0	0	0
VIPR1	2,321928095	2,807354922	3,169925001	3,321928095	2,321928095	0
VIPR2	2,807354922	2,584962501	3	2,321928095	3	0
VIT	0	0	0	0	0	2
VKORC1	6,375039431	6,672425342	6,247927513	5,523561956	5,087462841	3,169925001
VKORC1L1	6,06608919	6,375039431	5,700439718	6,189824559	6,321928095	6,247927513
VLDLR	3,584962501	4	3,584962501	5,247927513	6,189824559	6,491853096
VMA21	8,271463028	8,400879436	8,209453366	8,103287808	8,159871337	8,06608919
VMAC	1,584962501	2,807354922	3,169925001	1	2,321928095	3,169925001
VMO1	3	2,321928095	3,906890596	0	0	0
VMP1	8,675957033	8,46760555	8,550746785	8,14974712	7,912889336	8,016808288
VN1R1	0	0	0	0	0	0
VN1R10P	0	0	0	0	0	0
VN1R2	0	0	0	0	0	0
VN1R4	0	0	0	0	0	0
VN1R5	0	0	0	0	0	0
VNN1	0	0	0	0	0	0
VNN2	6,768184325	7,033423002	7,118941073	7,658211483	7,584962501	7,348728154
VNN3	1,584962501	2,584962501	3	1	1,584962501	3,807354922
VOPP1	7,383704292	7,17990909	6,614709844	7,375039431	7,247927513	7,46760555
VPREB1	0	0	0	0	0	0
VPREB3	2,807354922	2,807354922	3	0	0	0
VPS11	5,614709844	5,727920455	5,700439718	5,357552005	5,392317423	4,321928095
VPS13A	8,169925001	8,335390355	8,554588852	8,479780264	8,184875343	8,400879436
VPS13B	6,832890014	6,882643049	7,209453366	6,95419631	6,918863237	7,312882955
VPS13C	10,08878824	10,12541347	10,33091688	9,952741247	9,897845456	9,891783703
VPS13D	7,761551232	7,839203788	7,982993575	8,710806434	8,405141463	8,654636029

VPS16	5,247927513	5,832890014	6,247927513	5,357552005	4,459431619	4,95419631
VPS18	4,169925001	4,392317423	4,392317423	3,321928095	3	2
VPS25	4,906890596	5,459431619	5,169925001	4,700439718	4,247927513	2
VPS26A	6,906890596	6,965784285	7,011227255	6,554588852	6,965784285	6,700439718
VPS26B	6,584962501	6,50779464	6,569855608	6,321928095	6,50779464	5,554588852
VPS28	6,942514505	7,087462841	6,906890596	7,055282436	7,108524457	6,965784285
VPS29	8,113742166	8,383704292	8,144658243	7,918863237	7,768184325	7,592457037
VPS33A	7,238404739	7,266786541	7,118941073	7,531381461	7,451211112	7,098032083
VPS33B	4,247927513	4	4,169925001	5,459431619	3,321928095	2
VPS35	8,945443836	8,810571635	8,661778098	8,531381461	8,503825738	8,413627929
VPS36	8,233619677	8,204571144	8,194756854	7,930737338	7,707359132	7,622051819
VPS37A	6,686500527	6,339850003	6,781359714	6,375039431	6,189824559	6,169925001
VPS37B	5,554588852	5,882643049	5,672425342	6,554588852	6,614709844	6,491853096
VPS37C	6,599912842	6,392317423	6,491853096	2,321928095	4	3,169925001
VPS37D	0	1	0	0	0	0
VPS39	5,523561956	5,554588852	5,554588852	5,357552005	6,189824559	5,95419631
VPS41	7,54689446	7,098032083	7,330916878	7,189824559	7,108524457	6,882643049
VPS45	5,727920455	5,044394119	5,209453366	2,321928095	3,700439718	4,321928095
VPS4A	6,539158811	6,845490051	6,409390936	6,375039431	6,882643049	6,247927513
VPS4B	8,764871591	8,797661526	8,797661526	8,77148947	8,942514505	8,636624621
VPS52	4,906890596	4,523561956	4,584962501	4,700439718	4,247927513	3,169925001
VPS53	6,87036472	6,409390936	6,554588852	6,794415866	5,930737338	6,569855608
VPS54	6,459431619	6,209453366	6,375039431	6	5,727920455	5,95419631
VPS72	5,807354922	5,807354922	5,930737338	5,882643049	6,247927513	5,169925001
VPS8	6,686500527	6,321928095	6,62935662	6,50779464	6,584962501	5,832890014
VRK1	6,894817763	6,857980995	6,832890014	7,531381461	7,658211483	7,787902559
VRK2	7,129283017	7,129283017	6,727920455	6,189824559	5,857980995	3,169925001
VRK3	6,189824559	6	5,807354922	5,754887502	6,321928095	5,357552005
VRTN	0	0	0	0	0	2
VSIG1	4	4,64385619	4,459431619	4,857980995	4,459431619	4,321928095
VSIG10	3,321928095	1	2,584962501	2,807354922	3,700439718	5,169925001
VSIG10L	2,807354922	0	2	0	1,584962501	2
VSIG2	0	0	0	0	0	0
VSIG4	1	2,321928095	2,807354922	0	0	0
VSIG8	0	0	0	0	0	0
VSNL1	0	0	0	0	0	0
VSTM1	1,584962501	1	2,584962501	0	0	0
VSTM2A	0	0	0	0	0	0
VSTM2B	0	0	0	0	0	0
VSTM2L	0	0	0	0	0	0
VSTM4	0	0	0	2,321928095	1,584962501	0
VSTM5	0	0	0	0	0	0
VSX1	1	0	0	2,807354922	1,584962501	4,321928095
VSX2	0	0	0	0	0	0
VTa1	7,982993575	7,942514505	7,741466986	7,851749041	7,876516947	7,787902559
VTCN1	0	0	0	2,321928095	2,321928095	4,64385619
VTI1A	6,285402219	5,882643049	6,108524457	5,754887502	6,321928095	5,832890014
VTI1B	8,011227255	8,13442632	8,033423002	7,321928095	7,584962501	7,491853096
VTN	0	0	0	0	0	0
VTRNA1-1	0	1,584962501	0	0	4,459431619	4,321928095
VTRNA1-2	0	0	0	0	0	0
VTRNA1-3	0	0	0	4,700439718	0	4,321928095
VTRNA2-1	1	0	0	1	3	2
VWA1	0	0	0	0	0	0
VWA2	0	0	0	1	0	0
VWA3A	0	0	0	0	1,584962501	2
VWA3B	1,584962501	2,584962501	1,584962501	2,807354922	4,64385619	3,169925001
VWA5A	4	4,754887502	4,087462841	5,129283017	4,807354922	5,169925001

VWA5B1	0	0	0	0	0	0
VWA5B2	0	0	0	0	0	0
VWA7	0	0	0	0	0	0
VWC2	2,321928095	2,584962501	1,584962501	3,807354922	3	3,169925001
VWC2L	0	0	0	0	0	2
VWCE	0	0	1	0	2,321928095	4,321928095
VWDE	1,584962501	0	1	0	3,321928095	4,321928095
VWF	0	0	0	0	0	0
WAC	10,08480839	9,994353437	10,00702727	10,18858885	10,23242093	10,21674586
WARS	8,82336724	8,960001932	9,038918989	7,918863237	8,379378367	7,977279923
WARS2	5,832890014	5,727920455	5,930737338	6,62935662	6,539158811	6,247927513
WAS	7,087462841	7,475733431	7,434628228	7,375039431	7,022367813	7,129283017
WASF1	4,321928095	3,169925001	2	2,807354922	4,247927513	2
WASF2	9,011227255	8,87958325	8,888743249	9,025139562	9,121533517	9,087462841
WASF3	0	0	0	0	0	0
WASH2P	2,321928095	1,584962501	0	2,321928095	1,584962501	0
WASH3P	0	0	0	0	0	0
WASH5P	0	0	0	0	0	0
WASH7P	0	0	0	0	0	0
WASL	6,475733431	6,459431619	5,727920455	6,266786541	6,50779464	6,754887502
WBP1	0	0	1	0	0	0
WBP11	8,339850003	8,266786541	8,257387843	8,459431619	8,724513853	8,592457037
WBP11P1	1	2,584962501	2	1	3,321928095	0
WBP2	7,209453366	7	7,189824559	7,14974712	7,312882955	7,312882955
WBP2NL	3,459431619	3	3,807354922	4,087462841	4,247927513	4,64385619
WBP4	7,375039431	7,303780748	7,303780748	7,055282436	7,366322214	7,276124405
WDFY1	8,603626345	8,651051691	8,744833837	6,882643049	7,50779464	7,247927513
WDFY2	6,022367813	6,569855608	6,303780748	6,375039431	6,584962501	7,011227255
WDFY3	6,614709844	6,62935662	6,942514505	4,321928095	3,700439718	4,95419631
WDFY3-AS2	1,584962501	0	0	0	1,584962501	3,169925001
WDFY4	6,930737338	6,965784285	7,159871337	6,741466986	6,247927513	6,409390936
WDHD1	4,169925001	4,584962501	4	2,321928095	4	3,807354922
WDPCP	4,247927513	4,459431619	4,392317423	4,321928095	4,95419631	4,95419631
WDR1	8,276124405	8,312882955	8,447083226	7,531381461	7,74819285	7,87036472
WDR11	7,592457037	7,266786541	7,62935662	7,754887502	7,672425342	7,700439718
WDR12	6,491853096	6,285402219	6,22881869	5,882643049	5,169925001	6,06608919
WDR13	4,906890596	4,857980995	5,700439718	5,700439718	5,285402219	5,832890014
WDR17	2,807354922	1,584962501	2	2,321928095	2,321928095	3,169925001
WDR18	5,64385619	5,930737338	5,727920455	4,857980995	4,807354922	4,321928095
WDR19	5,357552005	4,857980995	4,857980995	6,820178962	5,930737338	7,348728154
WDR20	6,339850003	6,339850003	6,169925001	6,845490051	6,539158811	6,62935662
WDR24	1,584962501	1,584962501	1,584962501	1	3	0
WDR25	2,807354922	3,700439718	3,700439718	4,087462841	3,700439718	3,169925001
WDR26	8,459431619	8,335390355	8,294620749	8,503825738	8,361943774	8,447083226
WDR27	4,321928095	4,857980995	4,584962501	6,375039431	4	5,832890014
WDR3	6,906890596	6,807354922	6,807354922	7,62935662	7,321928095	7,787902559
WDR31	1,584962501	0	0	0	0	2
WDR33	7,900866808	7,906890596	7,936637939	8,82336724	8,54689446	8,894817763
WDR34	0	2,584962501	2	1	1,584962501	2
WDR35	3,700439718	4,459431619	4	3,321928095	4,247927513	4,321928095
WDR36	7,199672345	6,857980995	6,988684687	7,14974712	7,044394119	7,375039431
WDR37	6,658211483	7,108524457	7,17990909	7,700439718	7,599912842	7,721099189
WDR38	0	0	0	0	0	0
WDR4	5,426264755	5,357552005	5,584962501	5,832890014	5,64385619	6,169925001
WDR41	5,832890014	5,930737338	6,426264755	4,321928095	5,087462841	0
WDR43	8,581200582	8,499845887	8,577428828	9,344295908	9,262094845	9,511752654
WDR44	5,832890014	6,044394119	6,266786541	6,658211483	6,321928095	6,321928095
WDR45	5,209453366	5,357552005	5	5,614709844	5,781359714	5,169925001

WDR46	5,906890596	6	6,50779464	6,321928095	6,087462841	6,491853096
WDR47	5,321928095	5,285402219	5,614709844	5,129283017	4,64385619	4,95419631
WDR48	7,022367813	7,108524457	7,033423002	7,321928095	7,159871337	7,46760555
WDR49	0	0	0	1	0	3,807354922
WDR5	5,357552005	5,672425342	5,392317423	5,832890014	5,727920455	5,832890014
WDR53	4,857980995	5,247927513	5,044394119	5,754887502	5,285402219	5,357552005
WDR54	5,321928095	5,727920455	5,781359714	5,930737338	7,022367813	5,554588852
WDR55	6,108524457	6,14974712	6,189824559	5,930737338	6,321928095	5,554588852
WDR59	6,339850003	6,475733431	6,614709844	7,076815597	6,965784285	6,700439718
WDR5B	4,169925001	4,584962501	3,807354922	6,189824559	6,189824559	6,169925001
WDR6	6,409390936	6,475733431	6,392317423	6,50779464	6,044394119	6,247927513
WDR60	7,73470962	7,599912842	7,832890014	8,912889336	8,807354922	9,164906927
WDR61	6,375039431	6,339850003	6,339850003	6,266786541	6,129283017	6,62935662
WDR62	0	0	1	0	0	0
WDR63	3,321928095	2,807354922	2,584962501	5	3,321928095	4,321928095
WDR64	1	1	2	4,523561956	4,247927513	4,64385619
WDR66	0	2,321928095	2,584962501	6	5,554588852	6,06608919
WDR7	6,741466986	6,832890014	6,672425342	5,930737338	6,741466986	6,409390936
WDR70	6,285402219	6,459431619	6,409390936	6,906890596	6,918863237	6,62935662
WDR72	0	0	1	0	0	0
WDR73	5,807354922	5,392317423	5,807354922	6,741466986	6,285402219	6,930737338
WDR74	4,64385619	3,807354922	4,64385619	5,614709844	5,169925001	4,64385619
WDR75	6,754887502	6,807354922	6,459431619	7,098032083	7,139551352	7,055282436
WDR76	5,392317423	4,95419631	5,129283017	6,266786541	5,554588852	5,95419631
WDR77	4,754887502	3,584962501	4,169925001	2,807354922	4	0
WDR78	1,584962501	2,807354922	3,169925001	6,266786541	5,392317423	6,06608919
WDR81	5,044394119	5,087462841	5,247927513	2,321928095	4,459431619	3,169925001
WDR82	9,152284842	9,199672345	9,346513733	9,710806434	9,815383296	9,721099189
WDR83	1	1	1	0	0	0
WDR83OS	0	0	0	0	0	0
WDR86	0	0	1,584962501	0	0	0
WDR87	0	1,584962501	1,584962501	1	2,321928095	4,95419631
WDR88	0	0	0	0	0	0
WDR89	6,857980995	6,658211483	6,741466986	7,266786541	7,209453366	6,965784285
WDR90	3,584962501	3,906890596	4,392317423	4,321928095	4	5,554588852
WDR91	6,285402219	6,129283017	6,321928095	5,459431619	5,930737338	4,95419631
WDR92	5,426264755	5,087462841	5,169925001	4,700439718	5,087462841	3,169925001
WDR93	0	1	0	1	2,321928095	2
WDSUB1	5,247927513	4,95419631	4,857980995	4,523561956	4,64385619	0
WDTCl	5,357552005	5,554588852	5,554588852	5,754887502	5,392317423	5,95419631
WDYHV1	1	3,700439718	3,321928095	1	3,700439718	0
WEE1	5,044394119	4,459431619	5,044394119	5,614709844	5,64385619	5,554588852
WEE2	0	0	0	0	0	0
WFDC1	1,584962501	0	0	2,321928095	3,321928095	2
WFDC10A	0	0	0	0	0	0
WFDC10B	0	0	0	0	0	0
WFDC11	0	0	0	0	0	0
WFDC12	0	0	0	0	0	2
WFDC13	0	0	0	0	0	3,169925001
WFDC2	0	0	0	0	0	0
WFDC3	0	0	0	0	0	0
WFDC5	0	0	0	0	0	0
WFDC6	0	0	0	0	0	0
WFDC8	0	0	0	0	0	0
WFDC9	0	0	0	0	0	0
WFIKKN1	0	0	0	0	0	0
WFIKKN2	0	0	0	0	0	0
WFS1	1	2,321928095	1	0	0	0

WHAMM	8,044394119	7,851749041	8,113742166	9,290018847	9,033423002	9,6794801
WHAMMP2	5,584962501	5,614709844	5,247927513	6,459431619	6,129283017	6,965784285
WHAMMP3	4,169925001	4,087462841	4,584962501	4,857980995	5,727920455	4,95419631
WIF1	0	0	1	3,321928095	0	0
WIPF1	10,37068741	10,33091688	10,26091953	10,34318572	10,48381578	10,4419067
WIPF2	7,900866808	7,936637939	8,098032083	7,499845887	7,924812504	7,64385619
WIPF3	0	1	0	0	2,321928095	0
WIP1	5,700439718	5,459431619	5,209453366	4,700439718	4	4,321928095
WIP2	8,082149041	8,164906927	8,266786541	8,625708843	8,531381461	8,592457037
WISP1	0	0	0	0	0	0
WISP2	0	0	0	3,807354922	2,321928095	0
WISP3	0	0	0	1	0	0
WIZ	5,700439718	5,727920455	5,807354922	6,882643049	6,044394119	6,62935662
WLS	4	3,807354922	3,906890596	0	2,321928095	0
WNK1	9,902375114	9,894817763	9,758223215	9,73809226	9,73978061	9,807354922
WNK2	0	0	0	0	0	0
WNK3	0	1,584962501	1	0	3	3,807354922
WNK4	0	0	0	3,321928095	0	0
WNT1	0	0	0	0	0	0
WNT10A	3	4	3,169925001	2,807354922	3	2
WNT10B	3,321928095	2,807354922	1,584962501	3,321928095	2,321928095	0
WNT11	0	0	0	0	0	0
WNT16	2,321928095	0	0	1	3,321928095	3,169925001
WNT2	0	0	0	0	0	0
WNT2B	3,321928095	2,321928095	2,584962501	4,523561956	2,321928095	5,169925001
WNT3	2,321928095	0	0	0	0	0
WNT3A	0	0	0	0	0	0
WNT4	0	0	0	0	0	0
WNT5A	3,807354922	3,700439718	3,807354922	5,700439718	5,930737338	6,409390936
WNT5B	0	1,584962501	2,807354922	1	1,584962501	0
WNT6	0	0	0	0	0	0
WNT7A	1	3,584962501	2,584962501	4,087462841	1,584962501	0
WNT7B	0	0	0	0	0	0
WNT8A	0	0	0	0	0	0
WNT8B	0	0	0	0	0	0
WNT9A	0	0	1	0	0	0
WNT9B	0	0	0	0	0	0
WRAP53	1	2,807354922	3	1	2,321928095	2
WRAP73	5,129283017	5,584962501	5,357552005	6,321928095	5,781359714	4,95419631
WRB	5,285402219	5,247927513	4,857980995	4,700439718	4	0
WRN	6,614709844	6,569855608	6,22881869	7,426264755	6,700439718	6,754887502
WRNIP1	7,820178962	7,965784285	8,027905997	7,794415866	8,044394119	7,622051819
WSB1	10,1176431	10,18487534	10,02928723	10,20823436	10,14593215	10,09407769
WSB2	6,700439718	6,741466986	6,832890014	4,321928095	5,087462841	4,64385619
WSCD1	0	0	0	0	0	0
WSCD2	0	0	0	0	0	0
WT1	0	0	0	0	0	2
WT1-AS	0	0	0	2,807354922	0	3,169925001
WTAP	8,909893084	8,912889336	8,829722735	9,139551352	9,271463028	9,164906927
WTIP	2,584962501	1	2	4,087462841	5,392317423	6,169925001
WWC1	0	0	0	0	0	2
WWC2	5,906890596	5,930737338	5,906890596	5,614709844	6,087462841	6,569855608
WWC3	8,189824559	8,189824559	8,353146825	8,459431619	8,392317423	8,299208018
WWOX	4	3,906890596	4,247927513	3,807354922	4,64385619	5,554588852
WWP1	8,714245518	8,84862294	8,807354922	9,319672121	9,076815597	9,116343961
WWP2	7,257387843	7,531381461	7,348728154	7,14974712	7,451211112	6,882643049
WWTR1	1,584962501	1	1,584962501	4,087462841	2,321928095	2
WWTR1-AS1	0	0	0	0	0	0

XAB2	0	0	1,584962501	0	0	0
XAF1	8,741466986	8,87958325	8,73809226	8,022367813	7,73470962	7,539158811
XAGE1A	0	0	0	0	0	0
XAGE1B	0	0	0	0	0	0
XAGE2	0	0	0	0	0	0
XAGE3	0	0	0	0	0	0
XAGE5	0	0	0	0	0	0
XBP1	8,434628228	8,348728154	8,049848549	7,714245518	7,965784285	7,592457037
XCL1	5	5,044394119	3,906890596	6	4,247927513	6,247927513
XCL2	3,906890596	3,906890596	3,906890596	4,087462841	4,247927513	4,321928095
XCR1	0	0	0	0	0	0
XDH	0	0	0	0	0	0
XG	0	0	0	2,321928095	1,584962501	0
XIAP	8,82336724	8,829722735	8,797661526	8,573647187	8,45532722	8,622051819
XIRP1	0	0	0	0	0	0
XIRP2	1,584962501	0	1	0	1,584962501	0
XIST	2,584962501	1	1	5,247927513	5,087462841	4,64385619
XK	1,584962501	0	0	0	1,584962501	2
XKR3	0	0	0	0	0	0
XKR4	0	2,321928095	2,807354922	4,321928095	4,247927513	5,357552005
XKR5	0	0	0	0	0	0
XKR6	4,169925001	4,169925001	4,169925001	5,459431619	5,459431619	6,06608919
XKR7	0	0	0	0	0	0
XKR8	4,95419631	4,64385619	4,392317423	4,523561956	4,64385619	3,169925001
XKR9	1	1	1	0	1,584962501	0
XKRX	0	0	0	0	0	0
XPA	7,451211112	7,14974712	7,189824559	6,845490051	7,266786541	6,409390936
XPC	8,113742166	8,144658243	7,994353437	8,836050355	8,607330314	8,569855608
XPNPEP1	6,339850003	6,303780748	6,339850003	6,266786541	5,169925001	5,554588852
XPNPEP2	0	0	0	0	0	0
XPNPEP3	5	4,459431619	4,392317423	5,832890014	5,727920455	5,832890014
XPO1	8,558420713	8,224001674	8,257387843	8,357552005	8,330916878	8,622051819
XPO4	6,409390936	6,285402219	6,303780748	6,95419631	7,022367813	6,754887502
XPO5	5,247927513	5,614709844	5,321928095	5,700439718	5,977279923	4,95419631
XPO6	6,554588852	6,442943496	6,64385619	6,62935662	6,409390936	6,491853096
XPO7	7,129283017	7,64385619	7,721099189	7,592457037	7,434628228	7,562242424
XPOT	6,321928095	6,62935662	6,781359714	7	6,832890014	7,055282436
XPR1	6,247927513	5,930737338	6,189824559	5,930737338	5,930737338	5,95419631
XRCC1	3,700439718	3,584962501	4	1	1,584962501	2
XRCC2	1	1,584962501	1	0	0	0
XRCC3	0	0	0	0	0	0
XRCC4	5,523561956	5,727920455	5,321928095	5	5,169925001	4,321928095
XRCC5	10,01959073	9,903881846	9,802516365	10,06069593	10,04848687	10,13699111
XRCC6	7,033423002	7,238404739	7,076815597	7,64385619	7,569855608	7,622051819
XRN1	9,2644426	9,131856961	9,25502857	9,59058705	9,326429487	9,753216749
XRN2	9,002815016	9,022367813	9,240791332	9,366322214	9,407267764	9,426264755
XRRA1	5,129283017	5,129283017	5,321928095	5,882643049	5,554588852	5,357552005
XXYL1	3	3,321928095	2	2,321928095	2,321928095	2
XYLB	2,321928095	2,321928095	3,321928095	2,321928095	1,584962501	0
XYLT1	7,577428828	7,584962501	7,383704292	7,64385619	7,614709844	7,592457037
XYLT2	5,044394119	5,129283017	5,169925001	5,129283017	5,087462841	4,321928095
YAF2	7,022367813	6,977279923	7,285402219	7,189824559	7,569855608	7,539158811
YAP1	0	0	1,584962501	1	1,584962501	3,169925001
YARS	7,312882955	7,276124405	7,577428828	7,876516947	7,912889336	8,108524457
YARS2	3,807354922	4,169925001	4,169925001	4,321928095	3,700439718	3,169925001
YBEY	4,169925001	4	4,392317423	6	5,64385619	6,06608919
YBX1	9,204571144	9,087462841	8,832890014	9,124121312	8,888743249	9,019590728
YBX2	0	0	0	0	0	0

YDJC	4,95419631	5,044394119	4,906890596	5,357552005	5,554588852	5,554588852
YEATS2	7,348728154	7,285402219	7,330916878	6,977279923	7,087462841	6,169925001
YEATS4	7,523561956	7,74819285	7,851749041	7,247927513	7,50779464	7,209453366
YES1	4	4,392317423	4,392317423	4,523561956	4,807354922	5,169925001
YIF1A	5,930737338	6,209453366	5,727920455	4,321928095	5,087462841	3,807354922
YIF1B	3,459431619	3,906890596	2,807354922	2,321928095	3	0
YIPF1	6,189824559	5,882643049	6,189824559	5,614709844	5,857980995	5,554588852
YIPF2	4,584962501	5,247927513	5	3,321928095	4,459431619	0
YIPF3	6,321928095	6,523561956	6,64385619	5,882643049	6,539158811	5,554588852
YIPF4	8,417852515	8,442943496	8,361943774	8,409390936	8,339850003	8,426264755
YIPF5	7,614709844	7,74819285	7,569855608	8,159871337	8,276124405	8,592457037
YIPF6	6,857980995	6,658211483	6,918863237	6,50779464	6,375039431	6,820178962
YIPF7	0	0	0	0	0	0
YJEFN3	1	0	2	4,700439718	4,247927513	2
YKT6	7,417852515	7,554588852	7,46760555	7,727920455	7,900866808	7,832890014
YLP1M1	8,797661526	8,724513853	8,977279923	9,139551352	8,912889336	9,28771238
YME1L1	8,523561956	8,303780748	8,438791853	8,703903573	8,665335917	8,475733431
YOD1	5,044394119	4,754887502	4,906890596	4,700439718	3,321928095	2
YPEL1	5,321928095	5,584962501	5,554588852	5,357552005	6,129283017	6,169925001
YPEL2	7,022367813	7,087462841	7,209453366	7,442943496	7,383704292	7,375039431
YPEL3	7,303780748	7,417852515	7,426264755	7,592457037	7,554588852	7,491853096
YPEL4	3,321928095	4,459431619	3,906890596	1	0	2
YPEL5	8,405141463	8,262094845	8,189824559	8,471675214	8,707359132	8,758223215
YRDC	6,686500527	6,857980995	6,426264755	7,321928095	7,247927513	7,46760555
YTHDC1	9,4325419	9,424166289	9,550746785	10,37721053	10,22641219	10,52160044
YTHDC2	7,982993575	7,977279923	7,900866808	8,321928095	8,361943774	8,087462841
YTHDF1	6,714245518	7,129283017	7	8,087462841	7,900866808	7,977279923
YTHDF2	7,851749041	7,754887502	7,312882955	8,233619677	8,082149041	8,392317423
YTHDF3	8,357552005	8,400879436	8,092757141	8,413627929	8,392317423	8,330916878
YWHAB	11,57412044	11,45532722	11,47015044	10,90162116	11,08613623	10,61194694
YWHAE	8,654636029	8,592457037	8,73809226	8,383704292	8,379378367	8,622051819
YWHAG	9,169925001	8,909893084	8,74819285	8,233619677	8,405141463	8,271463028
YWHAH	7,971543554	7,794415866	7,592457037	6,977279923	6,658211483	6,409390936
YWHAQ	7,912889336	7,888743249	7,693486957	8,124121312	7,965784285	7,761551232
YWHAZ	9,717676423	9,733015322	9,622051819	9,917372079	9,759888183	9,942514505
YY1	10,09407769	10,09275714	10,05120894	10,18858885	10,14593215	10,18487534
YY1AP1	6,857980995	6,754887502	6,87036472	7,491853096	7,312882955	7,375039431
YY2	0	1,584962501	0	1	0	0
ZACN	0	0	0	0	0	0
ZADH2	7,139551352	7,06608919	6,930737338	8,276124405	7,942514505	8,189824559
ZAN	0	0	0	0	0	0
ZAP70	4,700439718	5,087462841	5,614709844	6,129283017	5,857980995	4,95419631
ZAR1	0	0	0	0	0	0
ZAR1L	0	0	0	3,807354922	1,584962501	0
ZBBX	1	0	0	1	0	0
ZBED1	7,257387843	7,50779464	7,159871337	6,700439718	6,857980995	6,754887502
ZBED2	1,584962501	1	3,169925001	2,321928095	4	2
ZBED3	3	4	3,700439718	3,321928095	3,321928095	3,807354922
ZBED4	7,06608919	6,686500527	7,285402219	7,375039431	6,832890014	7,098032083
ZBED5	7,257387843	7,098032083	7,098032083	7,672425342	7,569855608	7,851749041
ZBED6	0	0	0	0	0	0
ZBP1	4,64385619	4,523561956	4,247927513	3,321928095	4,247927513	3,807354922
ZBTB1	8,754887502	8,668884984	8,588714636	8,971543554	8,816983623	9,049848549
ZBTB10	7,238404739	7,247927513	7,055282436	7,076815597	7,087462841	7,312882955
ZBTB11	8,558420713	8,409390936	8,499845887	9,283088353	8,971543554	9,236014192
ZBTB12	0	0	0	0	0	0
ZBTB16	4,247927513	3,807354922	4,754887502	4,857980995	5,285402219	5,554588852
ZBTB17	4,64385619	4,906890596	5,169925001	3,807354922	3,700439718	4,64385619

ZBTB2	7,087462841	6,988684687	7,055282436	8,214319121	7,900866808	8,049848549
ZBTB20	8,611024797	8,721099189	9,154818109	9,330916878	9,025139562	9,554588852
ZBTB20-AS1	1	1,584962501	0	4,321928095	4,247927513	5,169925001
ZBTB22	5,614709844	6,189824559	6,087462841	4,857980995	5,554588852	5,554588852
ZBTB24	7,129283017	6,768184325	7,022367813	7,768184325	7,491853096	7,622051819
ZBTB25	7,754887502	7,813781191	8,027905997	8,554588852	8,285402219	8,73470962
ZBTB26	4,64385619	3,807354922	3,700439718	4,321928095	4,64385619	4,95419631
ZBTB3	4,64385619	4,906890596	4,584962501	2,321928095	4	3,169925001
ZBTB32	1	3,169925001	3	0	1,584962501	0
ZBTB33	7,055282436	7	7,17990909	7,022367813	7,491853096	7,209453366
ZBTB34	5,523561956	5,672425342	5,247927513	5,129283017	4,247927513	5,357552005
ZBTB37	6,95419631	6,845490051	6,930737338	6,50779464	6,459431619	6,321928095
ZBTB38	8,95419631	9,033423002	9	8,703903573	8,888743249	8,87958325
ZBTB39	5,832890014	5,614709844	5,426264755	5,614709844	5,459431619	6,409390936
ZBTB4	8,060695932	7,977279923	8,243173983	8,625708843	8,471675214	8,400879436
ZBTB40	6,754887502	6,554588852	6,95419631	7,475733431	6,918863237	7,312882955
ZBTB41	7,21916852	7,055282436	7,108524457	7,022367813	6,614709844	6,754887502
ZBTB42	4,700439718	3,321928095	3	2,807354922	0	0
ZBTB43	7,820178962	7,562242424	7,87036472	8,426264755	8,503825738	8,95419631
ZBTB44	9,501837185	9,296916207	9,409390936	9,722807531	9,712527	9,554588852
ZBTB45	4,392317423	4,459431619	4,95419631	2,321928095	4,247927513	2
ZBTB46	4,169925001	4,087462841	3,321928095	1	0	3,169925001
ZBTB47	1	0	0	0	0	0
ZBTB48	2,584962501	3,700439718	2,584962501	3,321928095	3	0
ZBTB49	4,95419631	5,321928095	4,906890596	5,754887502	5,554588852	5,357552005
ZBTB5	6,022367813	5,977279923	6,321928095	6,189824559	6,247927513	5,832890014
ZBTB6	5,64385619	5,781359714	5,044394119	6,584962501	6,658211483	6,754887502
ZBTB7A	9,952741247	9,891783703	10,16113188	9,754887502	9,74819285	9,721099189
ZBTB7B	6,50779464	6,442943496	6,714245518	5,523561956	5,459431619	5,832890014
ZBTB7C	0	0	0	0	0	2
ZBTB8A	0	1	0	2,321928095	3,321928095	0
ZBTB8B	1	0	0	3,321928095	3	4,64385619
ZBTB8OS	6,741466986	6,977279923	6,965784285	7,189824559	7,139551352	7,409390936
ZBTB9	1,584962501	2,321928095	3	0	3,321928095	2
ZC2HC1A	6,714245518	6,539158811	6,62935662	6,409390936	6,50779464	7,247927513
ZC2HC1B	0	0	0	0	0	0
ZC2HC1C	0	1	0	0	3	0
ZC3H10	4,95419631	5,087462841	5,459431619	5,459431619	5,169925001	4,95419631
ZC3H11A	1	0	0	0	0	0
ZC3H12A	6,339850003	6,50779464	6,375039431	6,62935662	6,614709844	6,321928095
ZC3H12B	2,584962501	2,807354922	2,807354922	4,857980995	3,700439718	2
ZC3H12C	4,459431619	5,044394119	4,95419631	2,807354922	3	2
ZC3H12D	6,339850003	6,62935662	6,584962501	7,851749041	7,672425342	8,087462841
ZC3H13	9,571752644	9,562242424	9,693486957	9,911391988	9,862637358	9,802516365
ZC3H14	7,658211483	7,515699838	7,768184325	8,022367813	7,982993575	7,851749041
ZC3H15	9,566054038	9,54303182	9,584962501	9,796039609	9,74819285	9,948367232
ZC3H18	7,707359132	8,060695932	8,098032083	8,103287808	8,566054038	8,392317423
ZC3H3	3	3,321928095	3,906890596	4,523561956	3	2
ZC3H4	7,636624621	7,515699838	7,491853096	8,912889336	8,651051691	9,116343961
ZC3H6	8,897845456	9,071462363	9,105908509	10,16113188	10,06204614	10,27496047
ZC3H7A	8,584962501	8,661778098	8,584962501	9,562242424	9,48984796	9,529430554
ZC3H7B	6,832890014	6,857980995	6,754887502	7,266786541	6,918863237	7,247927513
ZC3H8	7,139551352	6,727920455	6,857980995	7,459431619	7,491853096	7,46760555
ZC3HAV1	10,17242751	10,17242751	10,2179577	10,53040634	10,47370575	10,72706956
ZC3HAV1L	0	0	1	0	0	0
ZC3HC1	4,523561956	4,584962501	4,169925001	4,857980995	3,321928095	5,169925001
ZC4H2	4,169925001	3,321928095	4,754887502	4,700439718	4,64385619	5,554588852
ZCCHC10	7,73470962	7,839203788	7,754887502	7,599912842	7,74819285	7,515699838

ZCCHC12	0	0	0	0	0	2
ZCCHC13	0	0	0	0	0	0
ZCCHC14	6,285402219	6,169925001	5,857980995	6,820178962	6,614709844	7,098032083
ZCCHC17	6,977279923	6,918863237	6,807354922	6,95419631	7,539158811	7,169925001
ZCCHC18	4,169925001	4,321928095	4,247927513	4,523561956	4,807354922	4,64385619
ZCCHC2	8,882643049	8,832890014	8,918863237	8,409390936	8,321928095	8,366322214
ZCCHC24	5,727920455	5,087462841	5,700439718	3,807354922	4	4,64385619
ZCCHC3	7,330916878	7,741466986	7,491853096	7,672425342	7,864186145	7,942514505
ZCCHC4	4,523561956	4,459431619	5,129283017	5	5,392317423	5,95419631
ZCCHC7	7,087462841	6,754887502	6,965784285	7,768184325	7,491853096	7,562242424
ZCCHC8	7,982993575	8,21916852	8,060695932	8,413627929	8,491853096	8,447083226
ZCCHC9	6,942514505	6,882643049	6,965784285	6,882643049	7,044394119	6,754887502
ZCRB1	8,30833903	8,224001674	8,294620749	8,366322214	8,379378367	8,700439718
ZCWPW1	5,044394119	5,321928095	5	6,882643049	6,247927513	7,098032083
ZCWPW2	1,584962501	3	1,584962501	4,321928095	4	5,357552005
ZDBF2	6,475733431	6,375039431	6,392317423	6,930737338	6,965784285	7,011227255
ZDHHHC1	0	0	0	0	0	0
ZDHHHC11	1	0	0	4,700439718	2,321928095	3,169925001
ZDHHHC12	4,906890596	5,247927513	5,392317423	1	2,321928095	0
ZDHHHC13	5,977279923	6,303780748	6,303780748	5,930737338	5,64385619	6,169925001
ZDHHHC14	5,672425342	5,426264755	5,523561956	7,076815597	7,139551352	7,375039431
ZDHHHC15	0	0	0	0	1,584962501	0
ZDHHHC16	3,906890596	4,584962501	4,247927513	2,321928095	3,321928095	0
ZDHHHC17	7,209453366	7,044394119	7,434628228	7,700439718	7,584962501	7,64385619
ZDHHHC18	6	5,64385619	5,930737338	6	5,781359714	5,554588852
ZDHHHC19	0	0	0	0	0	0
ZDHHHC2	6,700439718	6,554588852	6,339850003	7,14974712	7,139551352	7,276124405
ZDHHHC20	9,11113567	9,027905997	8,768184325	7,839203788	7,864186145	7,46760555
ZDHHHC21	6,768184325	6,554588852	6,375039431	6,658211483	6,087462841	6,247927513
ZDHHHC22	0	0	0	0	0	0
ZDHHHC23	4	3,700439718	3,906890596	3,807354922	3,700439718	3,169925001
ZDHHHC24	6,22881869	6,459431619	6,285402219	6,95419631	6,741466986	6,169925001
ZDHHHC3	7,06608919	7	6,781359714	6,50779464	6,857980995	6,700439718
ZDHHHC4	5,169925001	5,044394119	5,392317423	5	5,977279923	4,95419631
ZDHHHC5	7,139551352	6,714245518	6,754887502	7,426264755	6,741466986	6,820178962
ZDHHHC6	7,087462841	7,087462841	7,189824559	6,700439718	6,614709844	6,930737338
ZDHHHC7	8,511752654	8,430452552	8,353146825	7,592457037	7,794415866	7,46760555
ZDHHHC8	5,129283017	5,64385619	5,209453366	5,357552005	6,087462841	4,321928095
ZDHHHC8P1	0	0	0	0	0	0
ZDHHHC9	4,906890596	5	4,584962501	3,321928095	5,727920455	0
ZEB1	7,900866808	7,721099189	7,651051691	8,97441459	8,77807713	9,095397023
ZEB1-AS1	3,459431619	3	1	4,700439718	4,95419631	4,64385619
ZEB2	9,605479518	9,375039431	9,821773982	8,731319031	8,918863237	9,063395081
ZEB2-AS1	4,169925001	3,169925001	3,906890596	4,700439718	3	3,807354922
ZER1	4,754887502	3,906890596	4,64385619	5,129283017	5,64385619	3,807354922
ZFAND1	6,741466986	6,857980995	7,011227255	7,714245518	7,658211483	7,539158811
ZFAND2A	4,906890596	4,857980995	4,95419631	5,523561956	5,930737338	4,95419631
ZFAND2B	5,977279923	5,523561956	5,930737338	4,087462841	5,392317423	3,169925001
ZFAND3	7,523561956	7,665335917	7,285402219	7,942514505	7,912889336	7,918863237
ZFAND4	5,044394119	5,64385619	5	5,357552005	4,459431619	5,169925001
ZFAND5	9,485829309	9,330916878	8,933690655	9,011227255	9,317412614	9,027905997
ZFAND6	7,982993575	7,918863237	7,73470962	8,184875343	8,011227255	8,06608919
ZFAT	4,459431619	4,321928095	4,584962501	3,321928095	3,700439718	0
ZFAT-AS1	0	0	0	0	0	0
ZFC3H1	8,596189756	8,503825738	8,636624621	9,400879436	8,836050355	9,487840034
ZFHX2	2,321928095	1,584962501	1	3,807354922	2,321928095	2
ZFHX3	6,845490051	7,011227255	7,330916878	5,129283017	5,727920455	5,95419631
ZFHX4	0	1,584962501	1	2,807354922	4	4,64385619

ZFP1	5,426264755	5,169925001	5,614709844	5,357552005	5,285402219	5,169925001
ZFP14	6,303780748	5,727920455	5,977279923	7,266786541	7,139551352	7,169925001
ZFP2	0	0	0	4,087462841	3	3,807354922
ZFP28	2,807354922	1,584962501	2,807354922	3,321928095	1,584962501	0
ZFP3	4,169925001	3	3,700439718	3,321928095	3,700439718	3,807354922
ZFP30	5,614709844	5,087462841	4,700439718	6,794415866	6,409390936	6,820178962
ZFP36	8,97441459	9,290018847	9,147204925	8,049848549	8,21916852	8,463524373
ZFP36L1	11,21249639	11,169925	11,24555271	10,73386272	10,62844554	10,71938882
ZFP36L2	11,04371086	10,9505559	10,93442804	10,36959735	10,57837269	10,04575966
ZFP37	4,169925001	4,087462841	4	4,087462841	4,64385619	4,64385619
ZFP41	1	3,169925001	3,584962501	4,321928095	3	3,807354922
ZFP42	0	0	0	0	0	0
ZFP57	0	0	0	0	0	0
ZFP62	7,087462841	6,942514505	6,409390936	7,531381461	7,73470962	7,098032083
ZFP64	5,247927513	4,857980995	5,321928095	4,857980995	4,64385619	5,169925001
ZFP82	3,700439718	3,807354922	3,169925001	5,129283017	5,977279923	4,95419631
ZFP90	5,584962501	5,857980995	5	6,700439718	6,375039431	5,832890014
ZFP91	9,167418146	9,209453366	9,197216693	9,247927513	9,113742166	9,434628228
ZFP91-CNTF	0	0	0	0	0	0
ZFP92	2,321928095	0	1,584962501	0	0	0
ZFPL1	4,584962501	4,95419631	4,754887502	3,807354922	4	0
ZFPM1	3,459431619	3,584962501	3,169925001	5	4,247927513	5,357552005
ZFPM2	0	0	0	0	1,584962501	0
ZFR	8,487840034	8,475733431	8,703903573	9,20701432	9,06608919	9,339850003
ZFR2	1,584962501	1	0	3,807354922	1,584962501	0
ZFX	7,794415866	7,569855608	7,882643049	8,487840034	8,405141463	8,330916878
ZFY	7,022367813	6,714245518	6,700439718	7,499845887	7,285402219	7,761551232
ZFYVE1	4,857980995	4,857980995	4,392317423	4,857980995	5,781359714	5,554588852
ZFYVE16	8,566054038	8,17990909	8,503825738	6,882643049	6,918863237	6,169925001
ZFYVE19	4,392317423	4,95419631	4,247927513	4,523561956	3,321928095	2
ZFYVE21	5,209453366	5,321928095	5,672425342	2,807354922	3	3,169925001
ZFYVE26	5,169925001	4,95419631	5,129283017	5,357552005	4	5,357552005
ZFYVE27	6,22881869	5,95419631	6,62935662	6,62935662	6,539158811	5,832890014
ZFYVE28	7,129283017	7,199672345	7,73470962	8,366322214	8,348728154	8,845490051
ZFYVE9	4,169925001	4,459431619	4,169925001	5,523561956	3,700439718	4,321928095
ZG16	0	0	1,584962501	2,321928095	0	3,807354922
ZG16B	3	2,584962501	1	0	0	3,169925001
ZGLP1	0	2,807354922	2	1	0	2
ZGPAT	0	1,584962501	0	0	0	0
ZHX1	7,584962501	7,383704292	7,475733431	7,531381461	7,417852515	7,741466986
ZHX2	4,906890596	4,64385619	4,584962501	5,700439718	5,285402219	5,554588852
ZHX3	3,584962501	3	3,169925001	0	0	2
ZIC1	0	0	0	0	0	0
ZIC2	0	0	0	0	0	0
ZIC3	0	0	0	0	0	0
ZIC4	0	0	0	0	0	0
ZIC5	0	2,321928095	2,807354922	3,321928095	3	5,169925001
ZIK1	3,807354922	3,807354922	3	5,614709844	5,169925001	6,06608919
ZIM2	0	0	0	2,321928095	2,321928095	2
ZIM3	0	0	0	0	0	0
ZKSCAN1	8,049848549	8,016808288	8,129283017	8,471675214	8,434628228	8,290018847
ZKSCAN2	3	3,169925001	1	2,807354922	4,247927513	3,807354922
ZKSCAN3	4,321928095	3,906890596	4,459431619	3,321928095	4	2
ZKSCAN4	3,906890596	4,321928095	3,807354922	4,321928095	4,807354922	4,64385619
ZKSCAN5	5,129283017	5,321928095	4,906890596	5,930737338	5,930737338	6,169925001
ZMAT1	7,787902559	7,936637939	8,044394119	8,6794801	8,194756854	9,21916852
ZMAT2	9,596189756	9,712527	9,618385502	10,11634396	10,25738784	10,08480839
ZMAT3	7,577428828	7,665335917	7,442943496	7,321928095	7,569855608	7,276124405

ZMAT4	1	0	0	0	1,584962501	0
ZMAT5	2,807354922	2,321928095	2,807354922	4,087462841	3	2
ZMIZ1	8,625708843	8,491853096	8,636624621	6,62935662	6,965784285	7,098032083
ZMIZ2	5,906890596	5,727920455	5,727920455	5,459431619	4,247927513	2
ZMPSTE24	6,658211483	6,599912842	6,285402219	5,882643049	6,321928095	6,169925001
ZMYM1	5,807354922	5,672425342	5,727920455	5,832890014	5,087462841	4,64385619
ZMYM2	8,033423002	7,906890596	8,285402219	8,554588852	8,129283017	8,675957033
ZMYM3	6,95419631	7,434628228	7,247927513	7,22881869	7,087462841	6,930737338
ZMYM4	7,375039431	6,807354922	7,118941073	7,64385619	7,321928095	7,539158811
ZMYM5	6,321928095	6,339850003	6,129283017	7,247927513	6,584962501	6,700439718
ZMYM6	6,614709844	6,672425342	6,614709844	6,930737338	6,044394119	7,011227255
ZMYND10	0	0	0	4,321928095	2,321928095	2
ZMYND11	8,396604781	8,405141463	8,174925683	8,562242424	8,503825738	8,271463028
ZMYND12	0	0	0	0	0	0
ZMYND15	3,321928095	3,169925001	4,087462841	0	1,584962501	0
ZMYND19	5,285402219	5,247927513	4,392317423	5,754887502	5,392317423	3,807354922
ZMYND8	7,888743249	7,894817763	8,044394119	8,174925683	8,209453366	8,271463028
ZNF10	4,169925001	3,584962501	3,169925001	4,087462841	4	5,169925001
ZNF100	5,781359714	6,044394119	6,044394119	5,247927513	5,64385619	5,169925001
ZNF101	7,857980995	7,87036472	7,845490051	8,980139578	8,857980995	9,164906927
ZNF107	5,95419631	5,64385619	5,882643049	5,523561956	6,247927513	5,832890014
ZNF114	0	0	0	3,807354922	1,584962501	2
ZNF117	5,285402219	4,321928095	5	5,832890014	4,95419631	6,491853096
ZNF12	7,426264755	7,321928095	7,392317423	8,636624621	8,434628228	8,791162889
ZNF121	7,159871337	7,108524457	7,118941073	7,741466986	7,451211112	7,622051819
ZNF124	4,700439718	4,392317423	4,857980995	5	4,64385619	4,64385619
ZNF131	8,044394119	7,977279923	7,930737338	8,584962501	8,426264755	8,531381461
ZNF132	0	0	0	0	0	0
ZNF133	2,807354922	3,584962501	3,807354922	4,700439718	4,459431619	3,807354922
ZNF134	5,491853096	5,554588852	5,357552005	6,22881869	5,930737338	6,491853096
ZNF135	0	2,321928095	1	1	1,584962501	0
ZNF136	6,285402219	6,14974712	6,044394119	7,076815597	6,658211483	7,011227255
ZNF137P	0	0	0	0	0	0
ZNF138	4,584962501	4,459431619	4,459431619	4,321928095	4,95419631	3,807354922
ZNF14	4,523561956	4,087462841	4,459431619	6,129283017	5,554588852	6,06608919
ZNF140	5,781359714	5,781359714	5,357552005	6,375039431	6,539158811	6,321928095
ZNF141	5,426264755	4,754887502	5,129283017	6,189824559	6,087462841	6,491853096
ZNF142	4,857980995	5	4,64385619	4,087462841	4,459431619	3,169925001
ZNF143	7,022367813	6,988684687	6,599912842	7,247927513	6,942514505	7,741466986
ZNF146	8,611024797	8,77478706	8,46760555	9,499845887	9,465566405	9,461479447
ZNF148	9,46760555	9,335390355	9,303780748	9,668884984	9,625708843	9,688250309
ZNF154	3,700439718	4,087462841	3,906890596	3,807354922	3	0
ZNF155	2,321928095	3,700439718	1,584962501	3,807354922	4,459431619	2
ZNF157	0	0	0	0	0	0
ZNF16	4,247927513	3,906890596	4,247927513	4,700439718	4,459431619	5,169925001
ZNF160	6,50779464	6,599912842	6,523561956	7,266786541	7,108524457	7,011227255
ZNF165	0	1,584962501	2	1	0	0
ZNF169	4,523561956	4,459431619	4,857980995	4,857980995	3,321928095	5,832890014
ZNF17	4,459431619	4,523561956	4,857980995	4,857980995	5,087462841	5,554588852
ZNF174	5,285402219	4,906890596	5,209453366	5,832890014	6,087462841	5,832890014
ZNF175	4,857980995	5,129283017	4,857980995	5,357552005	6,129283017	5,700439718
ZNF177	0	0	0	0	0	0
ZNF18	1,584962501	2,584962501	1,584962501	0	2,321928095	0
ZNF180	5,727920455	5,672425342	5,672425342	6,930737338	6,768184325	7,098032083
ZNF181	5,906890596	5,247927513	5,906890596	6,375039431	6,741466986	7,098032083
ZNF182	6,022367813	5,459431619	5,426264755	6	6,189824559	6,491853096
ZNF184	5,781359714	5,459431619	5,523561956	6,409390936	6,321928095	6,409390936
ZNF185	4,459431619	4,857980995	3,700439718	4,523561956	3	3,169925001

ZNF189	6	5,95419631	5,882643049	6,768184325	6,882643049	7,442943496
ZNF19	2,321928095	3,700439718	3,169925001	3,321928095	3,700439718	3,169925001
ZNF195	6,189824559	5,672425342	5,727920455	5,459431619	5,64385619	4,95419631
ZNF197	5,523561956	5,044394119	4,857980995	5,754887502	6,247927513	5,554588852
ZNF2	3,906890596	4,087462841	2	3,807354922	4	3,807354922
ZNF20	1	1	1	0	0	2
ZNF200	6,247927513	6,539158811	6,599912842	7,022367813	7,50779464	7,129283017
ZNF202	4,459431619	4,754887502	2,807354922	5,357552005	5,554588852	5,554588852
ZNF204P	5	5,392317423	5,129283017	6,375039431	4,95419631	5,700439718
ZNF205	0	2,321928095	2,807354922	0	0	0
ZNF207	9,390168956	9,303780748	9,381542951	9,194756854	8,942514505	9,269126679
ZNF208	0	0	1,584962501	0	0	0
ZNF211	4,523561956	4,64385619	4,523561956	4,523561956	5,169925001	5,357552005
ZNF212	4,64385619	5,357552005	5,247927513	5,247927513	5,977279923	5,554588852
ZNF213	1,584962501	1,584962501	2,584962501	0	0	0
ZNF214	0	0	0	0	0	0
ZNF215	1,584962501	2,807354922	1	1	4,459431619	0
ZNF217	8,64385619	8,744833837	8,945443836	8,584962501	8,794415866	8,584962501
ZNF219	4,95419631	4,459431619	4,523561956	4,087462841	3	4,95419631
ZNF22	7,794415866	7,8008999	7,787902559	7,894817763	8,257387843	7,942514505
ZNF221	0	0	0	0	0	0
ZNF222	3,906890596	3,700439718	3,700439718	4,700439718	4,459431619	4,321928095
ZNF223	3,321928095	3	3,700439718	0	3	2
ZNF224	5,930737338	5,64385619	6,06608919	6,658211483	6,50779464	6,409390936
ZNF225	4,906890596	4,087462841	4,392317423	4,857980995	3,321928095	4,95419631
ZNF226	6,686500527	6,285402219	6,087462841	6,409390936	7,022367813	5,357552005
ZNF227	6,584962501	6,285402219	6,426264755	7,14974712	6,832890014	6,965784285
ZNF229	0	1	1	3,321928095	1,584962501	2
ZNF23	0	0	0	1	0	0
ZNF230	5	5,426264755	4,754887502	5,247927513	4,459431619	4,95419631
ZNF232	4,392317423	4,523561956	3,906890596	4,700439718	5,459431619	3,807354922
ZNF233	0	0	0	0	0	0
ZNF234	5,807354922	6,06608919	5,906890596	6,820178962	6,459431619	7,011227255
ZNF235	2,584962501	1,584962501	3,321928095	1	1,584962501	2
ZNF236	6,539158811	6,321928095	6,523561956	7,209453366	6,768184325	7,209453366
ZNF239	0	0	2	2,807354922	1,584962501	2
ZNF24	9,782998209	9,871905238	9,74819285	9,759888183	9,850186838	9,884170519
ZNF248	5,554588852	4,857980995	4,754887502	5,882643049	5,781359714	6,247927513
ZNF25	6,807354922	6,584962501	6,820178962	7,247927513	7,266786541	7,851749041
ZNF250	2,584962501	3,584962501	3	5,129283017	4,459431619	2
ZNF251	3,459431619	4	4,64385619	5,614709844	5,781359714	6,247927513
ZNF253	5,426264755	4,857980995	5,044394119	5,459431619	5,64385619	6,409390936
ZNF254	4,64385619	4,584962501	4,459431619	4,857980995	5,087462841	5,357552005
ZNF256	2,584962501	3	2	2,807354922	1,584962501	2
ZNF257	3	3,807354922	4	5	4,247927513	5,554588852
ZNF26	6,539158811	6,285402219	6,50779464	7,672425342	7,247927513	7,787902559
ZNF260	5,672425342	5,672425342	5	6	6,129283017	6,169925001
ZNF263	6,339850003	6,303780748	5,977279923	7,14974712	7,266786541	7,098032083
ZNF264	7,592457037	7,400879436	7,700439718	8,159871337	8,092757141	7,787902559
ZNF266	6,06608919	6,189824559	5,906890596	7,022367813	7	7,409390936
ZNF267	8,082149041	8,027905997	8,044394119	8,751544059	8,682994584	9,292321633
ZNF268	5,807354922	6,14974712	6,247927513	7,62935662	7,139551352	7,851749041
ZNF273	5,321928095	5,044394119	5,247927513	5	5,64385619	4,64385619
ZNF274	6,189824559	5,882643049	6,087462841	6,321928095	6,614709844	6,62935662
ZNF275	5,426264755	5,781359714	5,807354922	6,50779464	6,321928095	6,491853096
ZNF276	5,727920455	6,189824559	6,129283017	6,189824559	6,459431619	6,321928095
ZNF277	6,22881869	5,672425342	6,044394119	6,375039431	6,539158811	6,62935662
ZNF28	5,781359714	5,857980995	5,906890596	6	5,64385619	5,357552005

ZNF280A	0	0	0	0	0	0
ZNF280B	4,247927513	4,169925001	4,392317423	5	4,459431619	4,321928095
ZNF280C	3,807354922	3,169925001	4,087462841	0	3,321928095	0
ZNF280D	6,569855608	6,321928095	6,426264755	6,129283017	6,539158811	6,62935662
ZNF281	8,885696373	8,710806434	8,717676423	8,654636029	8,54689446	8,758223215
ZNF282	4,247927513	4,584962501	4,392317423	2,807354922	3,321928095	2
ZNF283	3,584962501	2,584962501	4,169925001	4,857980995	4,64385619	3,807354922
ZNF284	4	4,584962501	3,321928095	2,321928095	3	3,807354922
ZNF285	1	1	1,584962501	0	0	0
ZNF286A	3	1,584962501	3,700439718	2,321928095	2,321928095	0
ZNF286B	1	0	0	1	1,584962501	0
ZNF287	2,807354922	2,584962501	3,584962501	2,321928095	2,321928095	3,169925001
ZNF292	9,874981348	9,73978061	9,977279923	10,08480839	10,11113567	10,02652344
ZNF295-AS1	0	0	0	0	0	0
ZNF296	3	3	1,584962501	0	0	0
ZNF3	5	5,044394119	5,169925001	6,189824559	5,781359714	6,169925001
ZNF30	3,700439718	3,700439718	2,807354922	3,807354922	1,584962501	2
ZNF300	2,807354922	2,584962501	2,584962501	4,700439718	4	5,169925001
ZNF300P1	0	0	0	4,321928095	3	3,169925001
ZNF302	6,569855608	6,442943496	6,62935662	7,864186145	7,614709844	7,942514505
ZNF304	4,169925001	4,584962501	4,523561956	6,930737338	6,539158811	7,209453366
ZNF311	2,321928095	0	1	1	0	2
ZNF317	4,906890596	4,64385619	4,459431619	5,357552005	5,392317423	4,64385619
ZNF318	7,768184325	7,781359714	7,826548487	7,266786541	7,539158811	7,622051819
ZNF319	5,614709844	5,357552005	5,129283017	4,523561956	5,727920455	5,554588852
ZNF32	5,129283017	4,64385619	4,64385619	5,459431619	5,392317423	5,95419631
ZNF32-AS3	0	0	0	0	0	0
ZNF320	0	0	0	0	0	0
ZNF321P	1	2,807354922	3,584962501	0	0	0
ZNF322	3,700439718	4,392317423	4,169925001	4,087462841	4	2
ZNF324	3,321928095	4,392317423	3	5,247927513	5,087462841	3,169925001
ZNF324B	0	1,584962501	2	0	2,321928095	0
ZNF326	7,636624621	7,451211112	7,607330314	8,531381461	7,888743249	8,665335917
ZNF329	4,321928095	4,392317423	4	5,247927513	5,554588852	5,357552005
ZNF330	7,754887502	7,614709844	7,459431619	7,392317423	7,672425342	8,049848549
ZNF331	6,50779464	6,686500527	6,700439718	7,189824559	6,768184325	7,491853096
ZNF333	5,491853096	5,044394119	5,321928095	5,832890014	5,285402219	6,321928095
ZNF334	1	0	0	0	0	0
ZNF335	5,807354922	5,857980995	5,754887502	6,584962501	6,087462841	6,930737338
ZNF337	5,727920455	5,357552005	5,672425342	7	6,584962501	6,965784285
ZNF33A	7,693486957	7,741466986	7,965784285	7,930737338	8,113742166	7,87036472
ZNF33B	6,832890014	7,169925001	6,781359714	7,577428828	7,400879436	7,276124405
ZNF34	4	4,087462841	3,321928095	4,700439718	3,321928095	5,357552005
ZNF341	3,807354922	3,584962501	4	3,807354922	1,584962501	4,321928095
ZNF343	2,584962501	2,807354922	3,321928095	3,321928095	2,321928095	0
ZNF345	5,930737338	5	5,491853096	5,700439718	5,64385619	5,554588852
ZNF346	3,321928095	3,321928095	3,807354922	3,807354922	3,321928095	2
ZNF347	4,584962501	5,044394119	4,700439718	6,375039431	5,554588852	5,357552005
ZNF35	3,321928095	2,321928095	2	3,321928095	2,321928095	2
ZNF350	5,392317423	5,392317423	5,247927513	6,321928095	6,189824559	7,247927513
ZNF354A	5,977279923	5,857980995	5,523561956	6,06608919	5,857980995	5,95419631
ZNF354B	4,754887502	4,087462841	4,700439718	4,523561956	4,807354922	4,64385619
ZNF354C	6,189824559	6,209453366	6,247927513	7,076815597	7,108524457	6,820178962
ZNF358	4,169925001	3,807354922	5,044394119	5,459431619	5,087462841	5,700439718
ZNF362	5,64385619	5,727920455	5,754887502	6,50779464	6,247927513	6,491853096
ZNF365	1,584962501	2,584962501	1,584962501	0	0	0
ZNF366	1	3	1,584962501	2,321928095	2,321928095	0
ZNF367	4,247927513	4,459431619	5,129283017	3,807354922	5,459431619	4,64385619

ZNF37A	7,022367813	6,768184325	6,714245518	8,312882955	7,982993575	8,330916878
ZNF37BP	6,409390936	6,209453366	6,339850003	7,930737338	7,417852515	7,977279923
ZNF382	3,459431619	4	3,584962501	5,754887502	4,807354922	6,321928095
ZNF383	5,523561956	5,554588852	6,06608919	7,62935662	7,491853096	7,375039431
ZNF384	6	6	6,285402219	6,459431619	6,700439718	6,62935662
ZNF385A	4,459431619	3,906890596	4,247927513	0	0	0
ZNF385B	0	1	0	0	0	2
ZNF385C	0	0	0	0	1,584962501	0
ZNF385D	3,700439718	4,392317423	3,906890596	6,06608919	5,977279923	6,882643049
ZNF391	2,321928095	2,584962501	1	2,807354922	3	0
ZNF394	5,781359714	5,930737338	5,523561956	6,06608919	5,857980995	6,882643049
ZNF395	8,707359132	8,854868383	8,988684687	8,50779464	8,86727874	8,665335917
ZNF396	2,321928095	1	3	2,321928095	0	0
ZNF397	6,700439718	6,523561956	6,832890014	7,960001932	7,475733431	7,87036472
ZNF398	5,426264755	5,554588852	5,614709844	5,832890014	5,285402219	5,357552005
ZNF404	3,584962501	3,321928095	3	3,807354922	1,584962501	2
ZNF407	6,022367813	5,882643049	6,569855608	7,285402219	6,768184325	7,442943496
ZNF408	3,459431619	3,807354922	3,321928095	5	4,807354922	5,700439718
ZNF41	3,807354922	3,321928095	4,169925001	2,321928095	2,321928095	4,321928095
ZNF410	1	2,584962501	1	2,807354922	1,584962501	3,169925001
ZNF414	4,700439718	4,523561956	4,906890596	3,321928095	4,459431619	3,169925001
ZNF415	0	0	1	0	0	3,807354922
ZNF416	0	0	1,584962501	0	3	0
ZNF417	4,857980995	5,321928095	5,209453366	6,768184325	6,882643049	6,820178962
ZNF418	0	1,584962501	1	1	0	0
ZNF419	4,95419631	5,426264755	5,044394119	6,658211483	6,50779464	6,491853096
ZNF420	6	5,807354922	5,672425342	6,129283017	6,832890014	6,62935662
ZNF423	0	0	0	0	0	0
ZNF425	2,584962501	0	2,584962501	5,129283017	4,64385619	5,554588852
ZNF426	5,247927513	5,554588852	5,247927513	5	5,781359714	6,169925001
ZNF428	7,238404739	7,707359132	7,876516947	7,14974712	7,912889336	6,700439718
ZNF429	4,64385619	4,523561956	3,906890596	5,357552005	5,64385619	5,554588852
ZNF43	5,554588852	5,459431619	5,459431619	6,375039431	5,857980995	6,569855608
ZNF430	7,098032083	6,857980995	7,033423002	7,209453366	6,965784285	7,442943496
ZNF431	6,807354922	6,807354922	6,599912842	7,741466986	7,348728154	7,46760555
ZNF432	5,523561956	5,285402219	5,95419631	6,266786541	6,285402219	6,569855608
ZNF433	1,584962501	0	1	0	0	0
ZNF436	4	4,169925001	3,584962501	4,700439718	4	0
ZNF438	6,459431619	6,129283017	5,857980995	2,807354922	4,807354922	4,321928095
ZNF439	4,392317423	4,087462841	4,523561956	4,857980995	4,64385619	3,169925001
ZNF44	6,14974712	6,044394119	5,807354922	6,820178962	6,882643049	7,169925001
ZNF440	3,807354922	4	3,906890596	4,087462841	4,247927513	2
ZNF441	4,523561956	4,64385619	4	6,189824559	5,727920455	5,700439718
ZNF442	1,584962501	1	2,807354922	3,321928095	4,247927513	0
ZNF443	2,584962501	2,321928095	0	0	0	0
ZNF444	4,459431619	3,807354922	4,392317423	5	4,807354922	5,169925001
ZNF445	5,781359714	5,672425342	6,129283017	7,247927513	6,658211483	7,209453366
ZNF446	3,459431619	3	3	2,321928095	2,321928095	0
ZNF449	5,044394119	4,906890596	5	4,857980995	5,392317423	5,357552005
ZNF45	5,209453366	4,754887502	5,129283017	5,700439718	4,459431619	4,64385619
ZNF451	8,459431619	8,361943774	8,693486957	9,184875343	9,271463028	9,25502857
ZNF454	0	0	0	1	0	0
ZNF460	2,321928095	2,807354922	4	3,807354922	3,321928095	2
ZNF461	3,321928095	3,321928095	3,700439718	5	5,087462841	4,95419631
ZNF462	1,584962501	1,584962501	3	2,807354922	2,321928095	0
ZNF467	3,700439718	4,584962501	3,807354922	0	0	0
ZNF468	5,781359714	6,169925001	5,700439718	5,700439718	5,64385619	5,357552005
ZNF469	1,584962501	1	2	2,807354922	0	2

ZNF470	3,584962501	3,906890596	3,584962501	4,321928095	3,700439718	3,807354922
ZNF471	0	0	1	1	0	0
ZNF473	3,584962501	3,700439718	4,247927513	1	4	4,64385619
ZNF474	0	0	0	0	0	0
ZNF479	0	0	0	0	0	0
ZNF48	5,426264755	5,129283017	4,700439718	5,754887502	5,554588852	6,569855608
ZNF480	6,22881869	6,189824559	6,129283017	6,794415866	6,614709844	6,700439718
ZNF483	1	2,584962501	2	4,523561956	1,584962501	5,169925001
ZNF484	4,459431619	4,087462841	4,523561956	3,807354922	4,459431619	4,321928095
ZNF485	3	3,169925001	3,169925001	2,321928095	3,321928095	3,169925001
ZNF486	5	4,700439718	5,044394119	5,357552005	5,087462841	5,169925001
ZNF488	0	0	0	0	0	0
ZNF490	0	1,584962501	0	0	0	2
ZNF491	0	0	0	0	0	2
ZNF492	0	0	0	0	1,584962501	0
ZNF493	6,807354922	6,942514505	7,076815597	7,930737338	7,348728154	7,918863237
ZNF496	3,700439718	3,807354922	4,169925001	5	4,807354922	3,807354922
ZNF497	0	0	0	1	0	0
ZNF500	4,584962501	4,64385619	3,321928095	5,754887502	5,857980995	6,247927513
ZNF501	2,807354922	3,906890596	2,807354922	4,700439718	4,64385619	5,357552005
ZNF502	2,807354922	2,584962501	2,807354922	4,857980995	4,459431619	4,321928095
ZNF503	4,523561956	4,523561956	4	2	2,321928095	2,584962501
ZNF503-AS1	0	0	0	0	0	0
ZNF503-AS2	1	0	0	0	0	0
ZNF506	5,930737338	5,64385619	5,754887502	6,06608919	5,857980995	6,409390936
ZNF507	6,087462841	6,044394119	6,426264755	7,098032083	6,832890014	7,011227255
ZNF510	4,459431619	4,857980995	4,392317423	4,321928095	4,459431619	4,321928095
ZNF511	5,044394119	4,64385619	5,247927513	3,807354922	4,459431619	0
ZNF512	6,022367813	5,247927513	6,044394119	7,022367813	6,375039431	6,754887502
ZNF512B	4,754887502	4,700439718	4,754887502	4,857980995	4,459431619	4,64385619
ZNF513	3	3,906890596	4,169925001	3,807354922	0	0
ZNF514	4,64385619	3,700439718	4,247927513	4,700439718	4,807354922	6,06608919
ZNF516	5,523561956	5,357552005	5,209453366	0	2,321928095	2
ZNF517	1	0	0	0	0	0
ZNF518A	7,614709844	7,665335917	7,741466986	7,339850003	7,17990909	7,918863237
ZNF518B	6,906890596	7,055282436	6,87036472	6,768184325	6,768184325	6,820178962
ZNF519	4,169925001	4,392317423	4,584962501	3,321928095	2,321928095	5,357552005
ZNF521	2,584962501	3,584962501	3,700439718	5,357552005	5,459431619	6,06608919
ZNF524	4,584962501	4,754887502	4,857980995	3,807354922	4,459431619	0
ZNF525	6,189824559	6,614709844	6,523561956	7,491853096	7,209453366	6,820178962
ZNF526	4,64385619	4,700439718	4,754887502	5,357552005	5,930737338	4,64385619
ZNF527	4,459431619	5,426264755	5,209453366	5,523561956	5,087462841	4,95419631
ZNF528	4,169925001	4,523561956	4,392317423	6,06608919	6,087462841	6,409390936
ZNF529	5,930737338	6,22881869	6,044394119	6,845490051	6,50779464	7,011227255
ZNF530	2,321928095	1	2	3,321928095	4	3,169925001
ZNF532	5,426264755	5	5,044394119	6,129283017	5,727920455	6,321928095
ZNF534	3,459431619	3,321928095	3,169925001	4,523561956	3	4,95419631
ZNF536	2,584962501	2,321928095	1	4,087462841	4,64385619	5,554588852
ZNF540	2,584962501	2,807354922	2,807354922	4,523561956	2,321928095	3,169925001
ZNF541	2,321928095	2,807354922	2	3,321928095	3,321928095	0
ZNF543	3,700439718	3,906890596	3,906890596	3,807354922	4	4,95419631
ZNF544	3,807354922	3,700439718	3,700439718	4,087462841	5,087462841	3,807354922
ZNF546	3,321928095	3	4,169925001	6,189824559	5,64385619	6,491853096
ZNF547	0	0	0	2,321928095	1,584962501	3,807354922
ZNF548	6,189824559	6,129283017	5,523561956	7,247927513	7,087462841	7,700439718
ZNF549	3,459431619	3,906890596	3,700439718	5,247927513	4	5,357552005
ZNF550	6,426264755	6,658211483	6,491853096	7,781359714	8,011227255	7,994353437
ZNF551	5,044394119	5,781359714	5,491853096	6,129283017	6,658211483	6,62935662

ZNF552	4,169925001	5	4,169925001	4,087462841	0	3,169925001
ZNF554	2,584962501	3,584962501	2,807354922	3,807354922	4,459431619	3,169925001
ZNF555	4,247927513	4,857980995	4,584962501	5,754887502	4,247927513	5,169925001
ZNF556	0	0	1	1	3,321928095	3,807354922
ZNF557	5,930737338	6,14974712	5,781359714	7,098032083	7,491853096	7,209453366
ZNF558	5,930737338	6,087462841	5,977279923	6,658211483	6,539158811	6,321928095
ZNF559	5,169925001	4,95419631	5,044394119	5,700439718	5,392317423	5,554588852
ZNF559-ZNF177	0	0	0	0	0	0
ZNF560	0	0	0	0	1,584962501	0
ZNF561	5,392317423	5,357552005	5,209453366	5,523561956	5,977279923	5,554588852
ZNF562	5,64385619	6,108524457	5,614709844	6,409390936	6,189824559	5,832890014
ZNF563	3,459431619	3,807354922	2,584962501	4,857980995	3,700439718	3,169925001
ZNF564	2,584962501	1,584962501	3	0	1,584962501	2
ZNF565	2,321928095	1,584962501	1	0	0	2
ZNF566	5,247927513	5,247927513	5,247927513	5,754887502	5,977279923	5,832890014
ZNF567	5,426264755	5,087462841	5,727920455	6,700439718	6,614709844	7,276124405
ZNF568	4,247927513	4,64385619	4,247927513	5,700439718	5,169925001	4,95419631
ZNF569	5	4,754887502	4,95419631	5,754887502	6,247927513	5,169925001
ZNF57	2,584962501	2,807354922	3,584962501	0	3	0
ZNF570	5,285402219	5,64385619	5,459431619	6,189824559	6,375039431	6,169925001
ZNF571	4,321928095	4,087462841	3,584962501	5,700439718	5,857980995	5,357552005
ZNF572	2,321928095	2,321928095	2	2,321928095	2,321928095	0
ZNF573	5,807354922	5,459431619	5,700439718	6,700439718	6,741466986	6,965784285
ZNF574	3,807354922	4	3,906890596	2,321928095	3,700439718	4,321928095
ZNF575	4,584962501	4	4,169925001	1	3	3,169925001
ZNF576	4,95419631	4,754887502	4,95419631	5,700439718	5,169925001	4,64385619
ZNF577	3,807354922	4,321928095	4	4,523561956	5,169925001	5,357552005
ZNF578	2,321928095	3	3	2,321928095	1,584962501	2
ZNF579	0	2,321928095	3,169925001	2,321928095	0	0
ZNF580	4,321928095	4,584962501	4,087462841	6,189824559	5,169925001	5,832890014
ZNF581	5,321928095	4,700439718	5	5,832890014	5,169925001	5,554588852
ZNF582	3,459431619	3	3	2,321928095	3	0
ZNF583	4,392317423	4,584962501	4,392317423	6,129283017	5,727920455	6,321928095
ZNF584	2,807354922	2,321928095	3	2,321928095	3,700439718	0
ZNF585A	5,044394119	4,700439718	5,209453366	6,906890596	6,807354922	7,312882955
ZNF585B	4,247927513	4,169925001	3,700439718	6,459431619	5,977279923	6,321928095
ZNF586	4,321928095	4,169925001	4,392317423	4,857980995	4,247927513	3,807354922
ZNF587	6,266786541	6,266786541	6,50779464	7,499845887	6,965784285	8,016808288
ZNF587B	5	5,357552005	5,209453366	5,523561956	5,169925001	4,64385619
ZNF589	3,906890596	4,169925001	5,169925001	4,087462841	4,95419631	3,169925001
ZNF592	5,807354922	6,06608919	6,247927513	5,614709844	5,781359714	6,491853096
ZNF593	4,700439718	4,64385619	4,64385619	2,321928095	4	0
ZNF594	3	1,584962501	3,584962501	4,523561956	4,247927513	4,95419631
ZNF595	3,459431619	3,321928095	2	4,087462841	3	2
ZNF596	2,807354922	2,321928095	1,584962501	5,247927513	3,321928095	3,169925001
ZNF597	4,321928095	3,700439718	4,087462841	4,523561956	4,64385619	3,807354922
ZNF598	5,64385619	5,672425342	5,247927513	5,614709844	5,554588852	5,554588852
ZNF599	4,321928095	3,906890596	4,087462841	5,614709844	4,459431619	5,832890014
ZNF600	6,285402219	5,930737338	6,247927513	6,189824559	6,50779464	6,882643049
ZNF605	6,584962501	6,62935662	6,523561956	7,826548487	7,209453366	7,741466986
ZNF606	3,700439718	4,087462841	4,169925001	5,357552005	5,554588852	5,554588852
ZNF607	1	3,169925001	3	4,700439718	1,584962501	0
ZNF608	3,700439718	3,906890596	2	4,087462841	3,700439718	3,807354922
ZNF609	7,129283017	6,965784285	7,139551352	7,781359714	7,794415866	8,06608919
ZNF610	2,584962501	3,169925001	1,584962501	5	3,321928095	6,321928095
ZNF611	6,569855608	6,392317423	6,375039431	7	6,658211483	7,055282436
ZNF613	3,584962501	3,321928095	3,169925001	2,807354922	2,321928095	0
ZNF614	5,584962501	5,614709844	5,209453366	6,189824559	6,189824559	6,321928095

ZNF615	5,169925001	5,044394119	4,700439718	5	5,781359714	5,554588852
ZNF616	4,169925001	3,700439718	4,087462841	3,807354922	4	4,321928095
ZNF618	4,95419631	4,523561956	5,357552005	2,807354922	2,321928095	3,807354922
ZNF619	3	3,700439718	3,807354922	4,087462841	4,459431619	5,832890014
ZNF620	3,321928095	1	0	3,321928095	0	3,807354922
ZNF621	6,62935662	6,044394119	6,584962501	6,882643049	6,285402219	7,209453366
ZNF622	5,357552005	5,321928095	5,321928095	5,700439718	5,459431619	5,700439718
ZNF623	6,285402219	5,95419631	5,727920455	6,794415866	6,918863237	6,965784285
ZNF624	5,169925001	5,584962501	4,906890596	5,754887502	5,781359714	5,357552005
ZNF625	0	0	0	0	0	0
ZNF625-ZNF20	0	0	0	0	0	0
ZNF626	5,169925001	4,64385619	3,700439718	6,459431619	5,727920455	6,820178962
ZNF627	4,584962501	3,700439718	4,392317423	5,882643049	5,087462841	5,832890014
ZNF628	1,584962501	2,321928095	2,584962501	0	0	0
ZNF629	4,247927513	4,906890596	4,584962501	2,807354922	3	3,807354922
ZNF630	1	0	1,584962501	0	0	0
ZNF638	8,864186145	8,73470962	8,957102042	9,405141463	9,337621902	9,344295908
ZNF639	6,741466986	6,882643049	7,06608919	7,392317423	7,139551352	7,209453366
ZNF641	5,882643049	5,614709844	5,357552005	4,523561956	4,64385619	3,169925001
ZNF644	8,194756854	8,092757141	7,994353437	8,797661526	8,599912842	8,797661526
ZNF646	4,64385619	4,64385619	4,584962501	4,523561956	3,700439718	3,169925001
ZNF648	0	0	0	0	0	0
ZNF649	4,247927513	5,129283017	4,700439718	5,523561956	5,930737338	5,357552005
ZNF652	7,832890014	7,942514505	7,977279923	8,339850003	8,353146825	8,426264755
ZNF653	1,584962501	3,584962501	2,807354922	3,321928095	3	0
ZNF654	7,321928095	6,807354922	7,139551352	7,357552005	7,366322214	7,700439718
ZNF655	8,022367813	7,965784285	7,982993575	8,383704292	8,233619677	8,087462841
ZNF658	2,321928095	2,584962501	1	4,857980995	1,584962501	0
ZNF658B	0	0	0	0	0	0
ZNF660	3	1	3,169925001	2,321928095	3	3,169925001
ZNF662	0	0	2	0	0	2
ZNF664	7,06608919	6,857980995	6,523561956	7,247927513	7,321928095	7,375039431
ZNF665	1	1,584962501	0	2,807354922	2,321928095	5,169925001
ZNF667	2,584962501	1	1	2,321928095	2,321928095	2
ZNF668	2,321928095	2,807354922	1,584962501	0	3,321928095	0
ZNF669	2,807354922	1,584962501	2,807354922	2,807354922	1,584962501	3,169925001
ZNF670	0	1,584962501	0	0	0	0
ZNF671	4,523561956	3,906890596	3,906890596	4,857980995	4,247927513	5,357552005
ZNF672	4,321928095	4,459431619	4,857980995	4,700439718	4,95419631	2
ZNF674	4,95419631	4,906890596	4,857980995	4,087462841	4,247927513	0
ZNF675	5,554588852	5,672425342	5,857980995	5,930737338	5,857980995	6,700439718
ZNF676	0	0	0	0	0	0
ZNF677	4,700439718	4,64385619	3,169925001	6,129283017	5,64385619	5,554588852
ZNF678	4,700439718	4,95419631	5,129283017	3,321928095	3,700439718	2
ZNF679	0	0	0	0	0	0
ZNF680	5,700439718	4,95419631	4,857980995	5,129283017	5,285402219	4,64385619
ZNF681	4,321928095	2,321928095	3,584962501	4,523561956	4,64385619	2
ZNF682	4,169925001	4,754887502	4,64385619	5,129283017	5,459431619	5,169925001
ZNF683	5,426264755	6,044394119	6,087462841	5,247927513	5,285402219	4,64385619
ZNF684	3,459431619	3	3,700439718	3,807354922	2,321928095	3,169925001
ZNF687	4,584962501	4,700439718	4,584962501	4,700439718	4,64385619	4,321928095
ZNF688	5,727920455	5,614709844	5,857980995	6,658211483	6,459431619	6,491853096
ZNF689	5,781359714	5,64385619	5,426264755	6,129283017	6,50779464	6,754887502
ZNF69	2,807354922	1	1,584962501	3,807354922	1,584962501	0
ZNF691	1,584962501	1,584962501	1	3,321928095	1,584962501	2
ZNF692	3,807354922	4,700439718	4,754887502	5	4,459431619	3,807354922
ZNF695	0	0	0	0	0	0
ZNF696	3	3,807354922	3,906890596	3,321928095	4	0

ZNF697	4,584962501	4,459431619	4,169925001	0	2,321928095	0
ZNF699	3	1,584962501	0	0	1,584962501	0
ZNF7	4,247927513	4,459431619	4,087462841	5,882643049	5,087462841	6,169925001
ZNF70	3,584962501	4,459431619	3,700439718	3,321928095	4	0
ZNF700	4,857980995	4,64385619	4,64385619	4,087462841	3,700439718	2
ZNF701	5,392317423	5,727920455	5,554588852	3,321928095	4,64385619	5,357552005
ZNF702P	4,459431619	4,169925001	4,087462841	2,807354922	3	3,169925001
ZNF703	2,584962501	2,807354922	3,906890596	1	0	0
ZNF704	4,392317423	4,459431619	4,392317423	4,857980995	3,700439718	3,807354922
ZNF705A	0	0	0	0	0	3,169925001
ZNF705D	0	0	0	0	0	0
ZNF705G	0	0	0	0	0	0
ZNF706	7,434628228	7,266786541	7,276124405	7,169925001	7	6,930737338
ZNF707	3,321928095	3	3	3,321928095	3,700439718	4,321928095
ZNF708	6,894817763	6,781359714	6,714245518	7,491853096	7,434628228	7,672425342
ZNF709	1,584962501	2,321928095	0	2,807354922	3,700439718	3,807354922
ZNF71	4,754887502	4,523561956	4,247927513	5,129283017	5,087462841	3,807354922
ZNF710	6,044394119	6,044394119	5,169925001	3,807354922	3,700439718	0
ZNF711	3,321928095	3,321928095	3,807354922	3,807354922	3	2
ZNF713	0	2,321928095	1	1	3	3,169925001
ZNF714	4,754887502	4,906890596	4,700439718	5,700439718	5,857980995	4,321928095
ZNF716	1	0	0	2,807354922	0	3,807354922
ZNF717	3,321928095	3,700439718	4,459431619	5	4,95419631	6,06608919
ZNF718	4,169925001	3,906890596	3,906890596	4,857980995	3	4,64385619
ZNF720	7,247927513	7,055282436	7,06608919	7,392317423	7,108524457	7,741466986
ZNF721	7,055282436	7	7,06608919	7,375039431	7,087462841	7,375039431
ZNF726	2,807354922	2,584962501	3	0	1,584962501	2
ZNF727	0	0	0	0	0	0
ZNF729	0	0	0	0	0	0
ZNF732	0	0	0	0	0	0
ZNF736	6,50779464	5,977279923	6	7,129283017	6,50779464	7,276124405
ZNF737	1	2,584962501	1,584962501	2,807354922	2,321928095	2
ZNF738	4,95419631	4,392317423	5,209453366	5	5,459431619	5,169925001
ZNF74	5,129283017	4,754887502	5,209453366	4,857980995	5,554588852	2
ZNF740	6,64385619	6,442943496	6,741466986	6,22881869	6,50779464	5,554588852
ZNF746	6,285402219	6,129283017	6,22881869	6,62935662	6,087462841	6,169925001
ZNF747	3,584962501	2,807354922	3,584962501	4,523561956	4,247927513	3,807354922
ZNF749	0	0	0	0	0	2
ZNF750	0	0	0	2,321928095	0	0
ZNF75A	6,247927513	5,781359714	5,930737338	6,658211483	5,857980995	6,62935662
ZNF75D	6,64385619	6,658211483	6,554588852	8,060695932	7,807354922	7,761551232
ZNF76	5,672425342	6,06608919	6,044394119	6,06608919	6,321928095	5,357552005
ZNF761	5,807354922	5,672425342	5,459431619	6,845490051	6,50779464	7,276124405
ZNF763	0	1	1	4,700439718	1,584962501	4,64385619
ZNF764	4,857980995	4,64385619	4,584962501	3,321928095	5,087462841	4,321928095
ZNF765	5,392317423	5,044394119	4,700439718	5,614709844	5,285402219	6,169925001
ZNF766	6,714245518	6,918863237	6,727920455	7,906890596	7,768184325	7,918863237
ZNF768	3,321928095	3,321928095	3	3,807354922	2,321928095	3,169925001
ZNF77	3,459431619	3,169925001	4	5,459431619	5,087462841	6,247927513
ZNF770	8,933690655	8,781359714	8,820178962	9,405141463	9,430452552	9,558420713
ZNF771	2,584962501	2,584962501	2,807354922	3,321928095	3	4,95419631
ZNF772	4,906890596	4,392317423	4,392317423	5,357552005	5,554588852	5,95419631
ZNF773	2,321928095	1,584962501	1,584962501	4,523561956	5,392317423	3,807354922
ZNF774	0	0	1,584962501	0	1,584962501	2
ZNF775	3,459431619	3,584962501	2,584962501	2,807354922	2,321928095	3,807354922
ZNF776	6,475733431	6,475733431	6,50779464	6,845490051	7,400879436	6,882643049
ZNF777	4,754887502	4,584962501	5,357552005	5,882643049	5,977279923	5,95419631
ZNF778	3,321928095	3,321928095	2,584962501	2,321928095	3,321928095	4,64385619

ZNF780A	5,357552005	4,857980995	5	6	5,977279923	5,832890014
ZNF780B	6,044394119	5,614709844	6,285402219	7,303780748	7,108524457	7,209453366
ZNF781	2,321928095	2,584962501	3	2,807354922	2,321928095	3,169925001
ZNF782	3,807354922	3	3	4,087462841	3,700439718	3,169925001
ZNF783	3,807354922	3	4,169925001	5,129283017	3,700439718	4,64385619
ZNF784	3,807354922	3,169925001	3,169925001	0	0	0
ZNF785	4,392317423	4,523561956	4,857980995	3,807354922	5,285402219	4,64385619
ZNF786	5,321928095	5,727920455	5,614709844	6,189824559	6,285402219	5,357552005
ZNF787	4,857980995	5,781359714	5,781359714	5,129283017	5,169925001	5,95419631
ZNF789	3,584962501	3	3,700439718	2,321928095	2,321928095	2
ZNF79	2,321928095	2,321928095	1,584962501	1	2,321928095	0
ZNF790	3,321928095	4	3,700439718	5,523561956	5,169925001	5,169925001
ZNF791	6,64385619	6,686500527	7,14974712	7,714245518	7,366322214	7,672425342
ZNF792	3,807354922	4,169925001	4,247927513	4,857980995	3,321928095	2
ZNF793	3,459431619	3,906890596	4	5,247927513	5,64385619	5,554588852
ZNF799	3,807354922	4,169925001	4,087462841	3,321928095	3,700439718	0
ZNF8	5,392317423	5,044394119	4,754887502	5,930737338	6,044394119	6,06608919
ZNF80	4,857980995	4,64385619	4,700439718	5,357552005	5,857980995	5,554588852
ZNF800	8,082149041	7,807354922	8,30833903	9,011227255	8,233619677	8,686500527
ZNF804A	4,700439718	4,700439718	5	2,321928095	1,584962501	3,169925001
ZNF804B	0	0	0	0	0	0
ZNF805	3,700439718	3	3,584962501	2,807354922	3	3,807354922
ZNF808	6,658211483	6,375039431	6,672425342	6,50779464	6,459431619	7,055282436
ZNF81	3,807354922	2,807354922	2,584962501	4,087462841	2,321928095	2
ZNF813	4,95419631	4,321928095	4,584962501	5,700439718	5,169925001	3,807354922
ZNF814	3,906890596	4	3,700439718	4,321928095	4,807354922	4,64385619
ZNF816	3	2,321928095	3	3,321928095	3,321928095	0
ZNF816-ZNF321P	0	0	0	0	0	0
ZNF821	3,584962501	3,700439718	4	5,459431619	4,807354922	4,64385619
ZNF823	3,459431619	1,584962501	2,807354922	0	2,321928095	0
ZNF826P	2,584962501	2,321928095	1	1	1,584962501	2
ZNF827	7,577428828	7,426264755	7,906890596	8,366322214	8,636624621	8,569855608
ZNF829	5,357552005	4,64385619	4,95419631	5,614709844	6,189824559	4,95419631
ZNF83	5,882643049	5,930737338	5,95419631	7,098032083	6,584962501	6,491853096
ZNF830	7,761551232	7,651051691	7,539158811	8,071462363	8,471675214	8,159871337
ZNF831	6,426264755	6,614709844	6,614709844	8,321928095	7,942514505	7,942514505
ZNF833P	0	0	0	0	0	0
ZNF835	1,584962501	0	0	0	0	0
ZNF836	4,64385619	5,285402219	4,459431619	5,357552005	5,087462841	5,357552005
ZNF837	0	1	1	0	1,584962501	0
ZNF839	5,614709844	5,64385619	6,06608919	5,930737338	5,977279923	5,95419631
ZNF84	5,554588852	5,392317423	5,169925001	6,375039431	5,930737338	6,169925001
ZNF841	1,584962501	3,169925001	2	4,087462841	3,700439718	2
ZNF843	0	1	0	4,321928095	3,321928095	5,169925001
ZNF844	4,584962501	4,700439718	4,169925001	5,357552005	4,459431619	4,64385619
ZNF845	3,700439718	4,169925001	3,906890596	5,523561956	4	3,807354922
ZNF846	2,584962501	2,321928095	2	2,807354922	3	4,321928095
ZNF847P	0	0	0	0	0	0
ZNF85	4	4,906890596	3,584962501	3,321928095	3	4,64385619
ZNF850	3	3,169925001	3,906890596	2,807354922	4,247927513	3,807354922
ZNF853	3,321928095	1,584962501	1,584962501	2,321928095	1,584962501	2
ZNF860	2,321928095	1,584962501	2,584962501	4,087462841	4	3,169925001
ZNF862	5,700439718	5,781359714	5,392317423	7,022367813	6,882643049	6,409390936
ZNF865	4,584962501	4,459431619	5,247927513	3,807354922	4,807354922	2
ZNF876P	1	1,584962501	2	0	0	0
ZNF878	0	0	0	0	0	0
ZNF879	1,584962501	1	3	3,807354922	2,321928095	4,321928095
ZNF880	4,321928095	2,807354922	3,700439718	2,807354922	0	2

ZNF883	0	0	0	0	0	0
ZNF890P	0	0	0	0	0	0
ZNF90	2,584962501	3,700439718	3,321928095	2,807354922	3,700439718	3,169925001
ZNF91	6,266786541	6,339850003	5,95419631	7,826548487	7,209453366	7,977279923
ZNF92	6,303780748	6,044394119	6,044394119	6,459431619	6,189824559	6,62935662
ZNF93	2,807354922	3,321928095	3,807354922	2,321928095	2,321928095	0
ZNF98	0	0	0	0	0	0
ZNF99	0	0	0	0	0	0
ZNFX1	8,45532722	8,503825738	8,569855608	8,700439718	8,903881846	8,73470962
ZNHIT1	5,882643049	6,22881869	5,906890596	5,930737338	5,554588852	3,807354922
ZNHIT2	3,321928095	3	3,700439718	3,807354922	3	4,321928095
ZNHIT3	7,033423002	7,14974712	6,832890014	7,491853096	7,383704292	7,055282436
ZNHIT6	7,459431619	7,651051691	7,721099189	7,982993575	7,781359714	8,159871337
ZNRD1	6,375039431	6,14974712	5,977279923	7,189824559	7,366322214	7,491853096
ZNRF1	4,459431619	4,392317423	4,700439718	5,523561956	5,392317423	5,554588852
ZNRF2	7,988684687	7,982993575	7,87036472	6,768184325	7,087462841	6,820178962
ZNRF2P1	0	0	0	0	0	0
ZNRF2P2	0	0	0	0	0	0
ZNRF3	2,321928095	2,584962501	2,807354922	5,247927513	4	6,409390936
ZNRF4	0	0	0	0	0	0
ZP1	0	0	0	0	0	0
ZP2	0	0	0	0	0	2
ZP3	0	0	0	0	0	0
ZP4	0	0	0	0	0	0
ZPBP	0	0	0	0	0	0
ZPBP2	0	0	1	0	0	0
ZPLD1	0	0	0	0	0	0
ZRANB1	7,238404739	7,14974712	7,189824559	7,794415866	7,924812504	8,06608919
ZRANB2	9,357552005	9,273795599	9,491853096	10,14720492	9,918863237	10,01122726
ZRANB2-AS1	0	0	0	0	0	0
ZRANB2-AS2	0	2,321928095	0	1	0	3,807354922
ZRANB3	3,807354922	3,321928095	3	4,700439718	4	4,321928095
ZRSR2	7,339850003	7,238404739	7,636624621	7,826548487	7,888743249	7,994353437
ZSCAN1	0	0	0	0	0	0
ZSCAN10	0	0	0	1	0	3,169925001
ZSCAN12	4,247927513	4	3,906890596	4,523561956	4,95419631	2
ZSCAN12P1	0	0	0	0	0	0
ZSCAN16	4	3,700439718	3,700439718	5,129283017	4,247927513	5,357552005
ZSCAN18	4,523561956	4,584962501	4,169925001	6,189824559	6,189824559	6,491853096
ZSCAN2	4,459431619	4	4,247927513	4,700439718	2,321928095	0
ZSCAN20	1	1	1,584962501	0	0	0
ZSCAN21	4,906890596	4,754887502	5,247927513	3,807354922	3,700439718	2
ZSCAN22	3,321928095	3,807354922	3	3,321928095	3,700439718	3,169925001
ZSCAN23	0	0	0	0	0	0
ZSCAN29	7,807354922	7,658211483	7,614709844	8,330916878	8,370687407	8,299208018
ZSCAN30	5,392317423	5,807354922	5,209453366	7,189824559	5,977279923	7,011227255
ZSCAN4	0	0	0	0	0	0
ZSCAN5A	4	5,129283017	4,754887502	4,087462841	5,087462841	2
ZSCAN5B	0	0	0	0	0	0
ZSWIM1	4,584962501	4,584962501	4,169925001	4,857980995	4,64385619	3,807354922
ZSWIM2	0	0	0	0	0	0
ZSWIM3	3,321928095	3,700439718	3,906890596	4,087462841	4,247927513	0
ZSWIM4	2,584962501	3,807354922	1,584962501	2,321928095	2,321928095	2
ZSWIM5	2,807354922	3,169925001	2,807354922	0	0	0
ZSWIM6	7,77478706	7,73470962	7,64385619	6,459431619	6,832890014	7,169925001
ZSWIM7	6,375039431	6,169925001	6,247927513	6,50779464	6,189824559	5,832890014
ZW10	6,189824559	6,686500527	6,108524457	6,459431619	6,741466986	5,95419631
ZWILCH	6,50779464	6,584962501	6,50779464	6,266786541	6,044394119	5,95419631

ZWINT	2,807354922	1	2	2,807354922	1,584962501	0
ZXDA	3,459431619	3,169925001	3,807354922	3,321928095	0	0
ZXDB	5,129283017	4,857980995	4,95419631	4,857980995	5,781359714	5,357552005
ZXDC	7,339850003	7,247927513	7,483815777	7,189824559	7,348728154	7,169925001
ZYG11A	0	0	0	0	0	0
ZYG11B	8,159871337	8,317412614	8,22881869	8,321928095	8,071462363	8,475733431
ZYX	6,475733431	6,807354922	6,857980995	5,129283017	4,247927513	3,169925001
ZZEF1	7,339850003	7,257387843	7,721099189	7,554588852	7,721099189	7,87036472

	logFC	AveExpr	t	P.Value	adj.P.Val	B
FAM20C	-7,22033	3,610165	-51,2234	1,62E-08	0,000132	9,280189
RTN1	-6,56968	3,284842	-46,7346	2,66E-08	0,000132	9,050973
LILRA2	-6,41513	3,207567	-45,2325	3,18E-08	0,000132	8,963091
TBC1D2	-5,86259	2,931296	-43,4978	3,93E-08	0,000132	8,853509
TMEM176E	-5,20705	2,603523	-40,1134	6,10E-08	0,000132	8,611193
ACPP	-5,39925	2,699626	-39,0568	7,06E-08	0,000132	8,526774
PDCD1LG2	-5,96845	2,984226	-38,9521	7,16E-08	0,000132	8,51816
CD151	-5,04121	2,520606	-37,843	8,37E-08	0,000132	8,424016
SEMA6B	-5,12402	2,562008	-36,2371	1,06E-07	0,000132	8,277731
EPHB2	-6,11422	3,057111	-34,9348	1,29E-07	0,000132	8,149645
RASAL1	-4,88575	2,442877	-34,8998	1,30E-07	0,000132	8,146072
FCGR1A	-5,12211	2,561054	-34,7074	1,34E-07	0,000132	8,126346
C1QC	-5,43756	2,718778	-33,896	1,52E-07	0,000132	8,040854
APOC1	-4,36656	2,183279	-33,3086	1,67E-07	0,000132	7,976564
CD209	-4,16844	2,084219	-33,0561	1,74E-07	0,000132	7,948282
TUBB2A	-4,02915	2,014577	-32,9538	1,77E-07	0,000132	7,936706
PVR	-5,15993	2,579963	-32,823	1,81E-07	0,000132	7,921815
LGALS2	-6,73693	3,368466	-32,7085	1,85E-07	0,000132	7,908692
MPND	-4,47682	2,238409	-32,5105	1,91E-07	0,000132	7,885802
C17orf58	-4,97619	2,488094	-32,2817	1,98E-07	0,000132	7,859035
C3orf14	-3,93793	1,968964	-32,1184	2,04E-07	0,000132	7,839721
NRG1	-3,80735	1,903677	-31,8113	2,15E-07	0,000132	7,802925
SOWAHD	-4,05664	2,028321	-31,4082	2,30E-07	0,000132	7,753646
TMED1	-4,47507	2,237536	-31,0924	2,43E-07	0,000132	7,714247
SLCO2B1	-5,61629	2,808143	-31,0337	2,46E-07	0,000132	7,706854
TIFAB	-5,43259	2,716296	-31,0149	2,46E-07	0,000132	7,704476
CENPW	-4,9122	2,456102	-30,707	2,60E-07	0,000132	7,665203
PSEN2	-4,57739	2,288695	-30,5947	2,65E-07	0,000132	7,650705
FZD1	-5,22059	2,610296	-30,3395	2,78E-07	0,000132	7,617417
C1QB	-4,43077	2,215387	-30,2664	2,81E-07	0,000132	7,607792
DPP3	-4,61588	2,307941	-29,9915	2,95E-07	0,000132	7,571233
BATF2	-4,8631	2,43155	-29,9424	2,98E-07	0,000132	7,56464
CHST13	-3,8049	1,902448	-29,2377	3,39E-07	0,000141	7,46796
CYP2S1	-3,8049	1,902448	-29,2377	3,39E-07	0,000141	7,46796
SHB	-4,61366	2,306829	-28,8683	3,63E-07	0,000147	7,415666
OAF	-5,1652	2,582601	-28,3241	4,03E-07	0,000155	7,336546
LYZ	-5,8472	10,19356	-28,2917	4,05E-07	0,000155	7,331748
CLEC7A	-5,36192	6,326508	-28,0441	4,25E-07	0,000158	7,294822
FZD2	-4,72247	2,361236	-27,5613	4,67E-07	0,000169	7,221256
ETV5	-4,2878	2,143902	-27,3745	4,84E-07	0,000171	7,192208
C19orf47	-3,65909	1,829547	-27,0028	5,21E-07	0,00018	7,133435
MGST1	-4,26465	5,403583	-26,7713	5,46E-07	0,000184	7,096176
TREM2	-4,70276	2,35138	-26,2778	6,04E-07	0,000192	7,01495
SIGLEC14	-4,70276	2,35138	-26,2778	6,04E-07	0,000192	7,01495
SNRNP25	-4,35682	2,178409	-26,0819	6,29E-07	0,000192	6,982009
TMEM163	-3,7664	1,883201	-26,004	6,39E-07	0,000192	6,968808
G6PC3	-3,7664	1,883201	-26,004	6,39E-07	0,000192	6,968808
CD300C	-4,26032	2,130158	-25,7045	6,81E-07	0,0002	6,917453
TRPM2	-4,68146	2,340732	-25,4159	7,23E-07	0,000209	6,867053
SLC16A5	-3,22059	1,610296	-25,2948	7,42E-07	0,00021	6,845645
CAMK1	-5,82968	2,914839	-25,003	7,90E-07	0,000216	6,793366

FOXRED2	-4,28392	2,141958	-24,9811	7,94E-07	0,000216	6,789414
GALNT12	-3,49728	1,748642	-24,7462	8,36E-07	0,000223	6,746568
CYBB	-4,12483	10,06506	-24,618	8,59E-07	0,000225	6,722931
SDSL	-4,15638	2,078189	-24,4974	8,83E-07	0,000227	6,700505
SDC3	-4,76726	2,38363	-24,2951	9,23E-07	0,000233	6,662522
RIN1	-3,40961	1,704803	-24,1258	9,59E-07	0,000234	6,63034
SMPDL3A	-3,98739	1,993696	-24,0887	9,67E-07	0,000234	6,623244
PTGFRN	-4,50474	2,25237	-24,0402	9,77E-07	0,000234	6,613945
GPNMB	-5,70736	7,04663	-23,8555	1,02E-06	0,000238	6,578254
COLEC12	-4,20705	2,103523	-23,8264	1,03E-06	0,000238	6,572595
JAG1	-4,15314	2,076572	-23,3792	1,14E-06	0,000257	6,484245
CTSS	-3,432	10,60462	-23,3426	1,15E-06	0,000257	6,476911
CDA	-3,53578	1,767888	-23,0445	1,23E-06	0,000264	6,416454
SNX10	-3,56307	7,956221	-23,0265	1,23E-06	0,000264	6,41276
ZNF385A	-4,20475	2,102375	-23,0209	1,23E-06	0,000264	6,411616
KCTD12	-3,69602	7,547739	-22,9215	1,26E-06	0,000267	6,391169
SIGLEC1	-4,15126	2,075631	-22,5913	1,37E-06	0,000284	6,322259
TSHZ3	-5,44199	2,720995	-22,5065	1,39E-06	0,000286	6,30434
ABHD11	-2,93578	1,467892	-22,2853	1,47E-06	0,000297	6,257075
DRAM1	-3,11466	6,598705	-22,1666	1,51E-06	0,000301	6,231433
TFAP2D	3,163951	1,581976	22,00323	1,58E-06	0,000308	6,195808
CCL8	-5,7397	2,869852	-21,8562	1,63E-06	0,000308	6,163422
RNASE1	-2,87157	1,435785	-21,7978	1,66E-06	0,000308	6,15047
VPREB3	-2,87157	1,435785	-21,7978	1,66E-06	0,000308	6,15047
DNAJB5	-2,87157	1,435785	-21,7978	1,66E-06	0,000308	6,15047
IL13RA1	-4,14857	6,878825	-21,7274	1,69E-06	0,00031	6,134777
KCNK13	-2,58496	1,292481	-21,5979	1,74E-06	0,000316	6,105743
PSTPIP2	-2,82675	7,809647	-21,5481	1,76E-06	0,000316	6,094503
NRN1	-3,4481	1,724049	-21,3754	1,84E-06	0,000325	6,055252
LACC1	-5,34322	6,168895	-21,2864	1,88E-06	0,000329	6,034842
SLC46A1	-3,57142	1,785708	-21,0497	2,00E-06	0,000345	5,979952
TIMP2	-3,628	7,314987	-20,7818	2,14E-06	0,000363	5,916781
IL18	-3,60991	1,804954	-20,7526	2,16E-06	0,000363	5,909828
ADORA3	-3,88726	1,94363	-20,676	2,20E-06	0,000364	5,8915
EPHA5	2,742813	5,34037	20,65068	2,22E-06	0,000364	5,885434
ARNTL2	-5,55057	2,775287	-20,5289	2,29E-06	0,000372	5,856076
FCAR	-3,85408	1,92704	-20,4044	2,37E-06	0,00038	5,825792
ASPSCR1	-2,73322	1,366612	-20,1702	2,52E-06	0,000394	5,768134
CTSB	-3,4143	9,198648	-20,0742	2,58E-06	0,000394	5,744232
SCPEP1	-3,35691	7,035134	-20,0391	2,61E-06	0,000394	5,735458
LRRIQ1	2,77951	2,974718	20,00266	2,63E-06	0,000394	5,726314
DHDH	2,992427	1,496213	20,00099	2,63E-06	0,000394	5,725895
CDKN2B	-2,99243	1,496213	-20,001	2,63E-06	0,000394	5,725895
ELAVL3	4,508017	2,254009	19,91731	2,69E-06	0,000394	5,704822
MRPL12	-3,64555	1,822773	-19,8993	2,71E-06	0,000394	5,700258
SEMA3B	3,645546	1,822773	19,89926	2,71E-06	0,000394	5,700258
GPR84	-4,0901	2,045049	-19,8281	2,76E-06	0,000398	5,682229
IMPA2	-4,33847	2,169236	-19,6454	2,90E-06	0,000414	5,635479
GLUL	-3,34608	8,37991	-19,5995	2,94E-06	0,000415	5,623654
CTSZ	-4,26647	6,669784	-19,484	3,03E-06	0,00042	5,59371
DAPK1	-4,90164	5,776581	-19,4496	3,06E-06	0,00042	5,584736
FGL2	-6,05729	8,289569	-19,4477	3,06E-06	0,00042	5,584242

CLEC6A	-4,08756	2,04378	-19,2944	3,20E-06	0,000434	5,544018
MFSD1	-2,93233	7,784281	-19,1997	3,28E-06	0,000438	5,518943
CD1C	-3,60459	1,802297	-19,1725	3,31E-06	0,000438	5,511714
LILRB2	-4,58494	6,825155	-19,1629	3,32E-06	0,000438	5,509159
LGALS3	-2,92088	9,18533	-19,1087	3,37E-06	0,000439	5,494708
TMEM86A	-3,48511	1,742555	-19,0728	3,40E-06	0,000439	5,485081
S100A8	-3,03933	9,167903	-19,0527	3,42E-06	0,000439	5,479695
SH3BP4	-3,48374	1,741869	-19,016	3,46E-06	0,00044	5,469842
CIITA	-2,99401	6,49104	-18,8651	3,61E-06	0,000453	5,428999
GPRC5A	3,397431	1,698715	18,81525	3,66E-06	0,000453	5,415427
DMXL2	-3,56884	7,193726	-18,7771	3,70E-06	0,000453	5,405009
AGPAT2	-4,87371	2,436856	-18,7672	3,71E-06	0,000453	5,402289
CCDC149	-4,30827	2,154135	-18,7613	3,72E-06	0,000453	5,400672
SCN2B	6,298841	3,14942	18,50811	4,00E-06	0,00048	5,330657
ZSWIM5	-2,92821	1,464106	-18,4986	4,01E-06	0,00048	5,328007
DUSP14	-4,08244	2,041222	-18,3303	4,21E-06	0,0005	5,280727
CD300E	-4,90136	2,450678	-18,281	4,27E-06	0,000503	5,266745
LOXL3	-4,46051	2,230257	-18,1905	4,39E-06	0,000512	5,24101
FPR3	-6,7322	6,430195	-18,1419	4,45E-06	0,000512	5,227109
THOC6	-3,84444	1,922222	-18,1136	4,49E-06	0,000512	5,218991
TMEM170E	-3,23407	4,60946	-18,1115	4,49E-06	0,000512	5,218373
MGAT5B	4,251907	3,320941	18,07352	4,54E-06	0,000513	5,207451
IGSF6	-4,05209	7,785345	-17,9417	4,72E-06	0,000526	5,169297
ALDH2	-2,55992	7,418306	-17,9367	4,73E-06	0,000526	5,167857
CPM	-2,87725	6,096882	-17,8345	4,88E-06	0,000539	5,137999
FUCA1	-5,89943	7,779497	-17,7777	4,96E-06	0,000543	5,121339
TNNI2	-2,79744	1,39872	-17,7316	5,03E-06	0,000543	5,107741
DGCR11	-2,79744	1,39872	-17,7316	5,03E-06	0,000543	5,107741
TUSC1	-2,49728	1,248642	-17,6704	5,12E-06	0,000549	5,089609
HSPB1	-2,71583	4,521866	-17,6445	5,17E-06	0,000549	5,081919
SLC37A2	-5,07927	2,539635	-17,5498	5,32E-06	0,000561	5,053683
CYBRD1	-4,41558	2,20779	-17,5054	5,39E-06	0,000563	5,040385
CNTNAP5	3,099736	1,549868	17,48101	5,43E-06	0,000563	5,033044
IDO2	-4,81315	2,406574	-17,4658	5,45E-06	0,000563	5,028481
TNFAIP2	-4,50361	7,827892	-17,2957	5,75E-06	0,000586	4,976915
PSAP	-2,32725	10,93359	-17,2621	5,81E-06	0,000586	4,966638
PTAFR	-3,43599	7,209612	-17,2553	5,82E-06	0,000586	4,96456
TTYH3	-3,39235	7,466661	-17,2395	5,85E-06	0,000586	4,95974
GPR162	-3,25163	1,625815	-17,0192	6,27E-06	0,000619	4,891689
BTBD3	-3,25163	1,625815	-17,0192	6,27E-06	0,000619	4,891689
KIF23	-2,86165	1,430827	-16,9845	6,34E-06	0,000622	4,88087
FAM198B	-4,60701	4,9081	-16,9146	6,48E-06	0,000631	4,858992
NRP2	-2,89566	5,882805	-16,7233	6,88E-06	0,000666	4,798524
TELO2	-3,1504	1,575202	-16,6175	7,12E-06	0,000685	4,764694
OLFM1	-3,57105	4,000143	-16,506	7,38E-06	0,000705	4,728737
TP53I3	-3,92821	1,964106	-16,4652	7,48E-06	0,00071	4,715506
EPB41L3	-4,58082	6,07184	-16,4045	7,63E-06	0,000713	4,695746
COQ2	-3,44638	3,937808	-16,4025	7,64E-06	0,000713	4,695087
FEZ1	2,678908	5,300844	16,38951	7,67E-06	0,000713	4,690856
RAB32	-4,56827	4,253101	-16,3042	7,89E-06	0,000729	4,66291
LIPA	-2,98134	8,538867	-16,1089	8,41E-06	0,000772	4,598177
MARVELD1	-4,92712	2,46356	-16,0256	8,65E-06	0,000789	4,570305

C3AR1	-2,76455	5,336486	-15,8995	9,02E-06	0,000816	4,527713
SLC5A11	4,222075	2,111037	15,88401	9,07E-06	0,000816	4,522455
01-mar	-2,20838	7,932989	-15,8068	9,31E-06	0,000833	4,496142
GDF5	4,14392	2,07196	15,7293	9,55E-06	0,000835	4,469577
ENTPD7	-2,97888	1,48944	-15,7128	9,61E-06	0,000835	4,463893
THRB	2,307453	3,81282	15,6948	9,67E-06	0,000835	4,457697
CLEC4A	-4,26965	2,134827	-15,6879	9,69E-06	0,000835	4,45532
EFNA4	-3,14557	1,572785	-15,6365	9,86E-06	0,000835	4,437539
LRFN4	-3,14557	1,572785	-15,6365	9,86E-06	0,000835	4,437539
CTSC	-2,12483	8,348365	-15,5934	1,00E-05	0,000835	4,422612
TMPRSS11I	3,428703	3,104326	15,57837	1,01E-05	0,000835	4,417369
SCARB2	-2,85502	7,271467	-15,5279	1,02E-05	0,000835	4,399765
CUEDC1	-4,26791	2,133955	-15,5264	1,02E-05	0,000835	4,399245
AIF1	-3,51841	7,975055	-15,5233	1,03E-05	0,000835	4,398148
ZNF784	-3,3824	1,691201	-15,5201	1,03E-05	0,000835	4,397047
HLA-DPA1	-2,34675	9,9691	-15,5178	1,03E-05	0,000835	4,396256
RGS12	-3,65771	3,797817	-15,5165	1,03E-05	0,000835	4,395801
CMKLR1	-3,18575	6,251727	-15,4968	1,03E-05	0,000835	4,388901
LAP3	-3,18219	7,583338	-15,4872	1,04E-05	0,000835	4,385536
NPC2	-2,61829	8,756766	-15,4853	1,04E-05	0,000835	4,38486
CSF1R	-7,39238	4,22451	-15,4826	1,04E-05	0,000835	4,383932
MYOF	-6,43093	4,077118	-15,4244	1,06E-05	0,000847	4,363452
ITGAM	-2,1071	6,625037	-15,3372	1,09E-05	0,000865	4,332645
GNS	-2,9663	7,131405	-15,3317	1,10E-05	0,000865	4,330691
PLOD1	-4,52051	2,260254	-15,2881	1,11E-05	0,000873	4,315179
TYROBP	-2,68802	8,446738	-15,2576	1,12E-05	0,000878	4,30432
DNAJC5B	-4,18741	2,093707	-15,2144	1,14E-05	0,000886	4,288865
UBD	-4,70968	2,35484	-15,1942	1,15E-05	0,000888	4,281643
OSGIN1	-2,85408	1,42704	-15,1102	1,18E-05	0,000909	4,25138
ZNF467	-4,03092	2,01546	-15,0842	1,19E-05	0,000913	4,241986
NKPD1	4,591046	2,295523	15,06091	1,20E-05	0,000915	4,233556
RHOQ	-2,04746	8,209724	-15,0259	1,22E-05	0,000922	4,220849
HLA-DRA	-2,34695	11,11329	-15,0105	1,23E-05	0,000922	4,215234
GRIN3A	-4,62806	2,314028	-14,9866	1,24E-05	0,000925	4,20654
MARCKS	-2,3264	9,493837	-14,8722	1,29E-05	0,000949	4,164589
RAB39A	-3,65909	1,829547	-14,87	1,29E-05	0,000949	4,163794
COL8A2	-3,65909	1,829547	-14,87	1,29E-05	0,000949	4,163794
TMEM51	-2,44561	6,585443	-14,8377	1,30E-05	0,000955	4,151897
ALCAM	-2,47114	7,01422	-14,8048	1,32E-05	0,000962	4,139719
COLEC10	2,214619	1,107309	14,67129	1,39E-05	0,000999	4,090025
ZIM2	2,214619	1,107309	14,67129	1,39E-05	0,000999	4,090025
AHR	-2,27597	6,674331	-14,5943	1,42E-05	0,001022	4,061134
CALCR	3,256587	4,263924	14,56861	1,44E-05	0,001024	4,051435
MPZL3	2,145837	5,842175	14,54631	1,45E-05	0,001024	4,043013
MS4A7	-2,17775	8,146169	-14,5442	1,45E-05	0,001024	4,042206
TYMP	-3,18059	6,610865	-14,5347	1,46E-05	0,001024	4,038624
FCGR2B	-2,70583	6,365474	-14,5135	1,47E-05	0,001027	4,030601
ILVBL	-2,20007	3,314654	-14,4587	1,50E-05	0,001034	4,00977
HLA-DMB	-2,71921	8,578952	-14,4484	1,50E-05	0,001034	4,005856
OR52N5	4,039887	3,743252	14,44244	1,51E-05	0,001034	4,003573
CD80	-2,64555	1,322773	-14,4407	1,51E-05	0,001034	4,002926
ABCA1	-2,6555	5,874197	-14,3239	1,57E-05	0,001074	3,958131

FREM3	2,659093	3,98864	14,31325	1,58E-05	0,001074	3,954047
ASGR2	-5,29171	2,979188	-14,2541	1,62E-05	0,001092	3,931188
NPL	-4,42619	5,943859	-14,2078	1,64E-05	0,001106	3,913223
PPP1R10	2,389788	8,611928	14,11608	1,70E-05	0,001135	3,877427
SLC29A1	-3,23808	1,619041	-14,1133	1,70E-05	0,001135	3,876341
ANXA2	-2,91993	7,750984	-14,0619	1,74E-05	0,001151	3,856164
NRGN	1,910722	5,982217	14,05315	1,74E-05	0,001151	3,852708
UBE2E2	-4,07691	4,479096	-14,0166	1,77E-05	0,001161	3,83828
CD300LF	-6,59445	3,825548	-13,9758	1,79E-05	0,001174	3,822139
GALK1	-4,45098	2,558823	-13,9351	1,82E-05	0,001183	3,805993
HLA-DRB1	-3,26491	9,909774	-13,9302	1,83E-05	0,001183	3,804047
DST	2,187917	6,194553	13,89093	1,85E-05	0,001193	3,788385
SNORD71	5,111983	2,889325	13,88528	1,86E-05	0,001193	3,786127
BRI3	-1,90912	8,0054	-13,8513	1,88E-05	0,001203	3,77252
GBGT1	-3,03057	3,484247	-13,796	1,92E-05	0,001214	3,750325
ARHGAP18	-3,31236	6,828656	-13,7947	1,92E-05	0,001214	3,74982
SIRPA	-3,34138	7,652004	-13,7819	1,93E-05	0,001214	3,744637
CD86	-2,59746	7,039748	-13,7807	1,93E-05	0,001214	3,744171
CTSD	-2,54139	9,115591	-13,748	1,96E-05	0,001223	3,73099
C8G	3,32576	1,66288	13,72727	1,97E-05	0,001223	3,722591
PRRG1	-3,32576	1,66288	-13,7273	1,97E-05	0,001223	3,722591
DDR2	3,140969	3,872781	13,6916	2,00E-05	0,001235	3,708129
RAB31	-2,38442	8,327202	-13,6706	2,02E-05	0,00124	3,6996
E2F2	-2,96896	1,484482	-13,5859	2,08E-05	0,001265	3,665004
OPLAH	-2,96896	1,484482	-13,5859	2,08E-05	0,001265	3,665004
TRIM62	-2,96896	1,484482	-13,5859	2,08E-05	0,001265	3,665004
SCARNA21	2,513216	7,306054	13,56326	2,10E-05	0,001268	3,655736
ADORA2B	-2,48374	1,241869	-13,5575	2,11E-05	0,001268	3,653373
STAT1	-2,41976	10,89673	-13,5401	2,12E-05	0,001271	3,646232
NCF2	-4,03913	7,99852	-13,5103	2,15E-05	0,001281	3,633961
IL15	-1,81066	4,677049	-13,4829	2,17E-05	0,001289	3,622647
01-mar	-3,13077	1,565386	-13,412	2,23E-05	0,001315	3,593222
ATP1B1	-2,4431	6,620731	-13,4106	2,23E-05	0,001315	3,592648
PMFBP1	-3,53578	1,767888	-13,3962	2,25E-05	0,001317	3,586656
NTRK2	3,278881	4,103546	13,37438	2,27E-05	0,001323	3,577575
STEAP3	-3,02561	1,512803	-13,3446	2,29E-05	0,001334	3,565142
ABR	-1,73297	7,454743	-13,332	2,30E-05	0,001335	3,559849
ADPRHL1	5,18097	2,590485	13,30541	2,33E-05	0,00134	3,548715
LRRK2	-3,26951	7,388739	-13,2962	2,34E-05	0,00134	3,544869
RAB34	-4,22668	2,446672	-13,291	2,34E-05	0,00134	3,542671
BIRC7	-1,58496	0,792481	-13,2427	2,39E-05	0,00134	3,522333
CENPI	-1,58496	0,792481	-13,2427	2,39E-05	0,00134	3,522333
PRSS22	-1,58496	0,792481	-13,2427	2,39E-05	0,00134	3,522333
SLC39A4	-1,58496	0,792481	-13,2427	2,39E-05	0,00134	3,522333
MPEG1	-3,9918	6,9457	-13,2412	2,39E-05	0,00134	3,521704
FCER1G	-3,1956	8,347202	-13,1915	2,44E-05	0,001362	3,500664
PAK1	-2,16683	6,991665	-13,1675	2,46E-05	0,00137	3,490477
GCNT2	-2,3285	4,3282	-13,0864	2,54E-05	0,001392	3,455936
JDP2	-2,77851	4,948495	-13,0809	2,55E-05	0,001392	3,453585
SGSM1	-2,90475	1,452374	-13,0794	2,55E-05	0,001392	3,452924
ANXA2P2	-2,90475	1,452374	-13,0794	2,55E-05	0,001392	3,452924
CCDC61	-2,90475	1,452374	-13,0794	2,55E-05	0,001392	3,452924

EGR2	-2,54747	8,057791	-13,0414	2,59E-05	0,001407	3,43665
P2RY13	-4,31691	2,49179	-13,0335	2,60E-05	0,001407	3,43324
MRC1	-2,05003	7,083873	-13,0228	2,61E-05	0,001408	3,428638
APC2	5,829175	2,914588	13,00066	2,63E-05	0,001411	3,419122
KLHDC8B	-3,27657	1,638287	-12,9986	2,64E-05	0,001411	3,418244
MAPRE3	-2,70976	1,354881	-12,8851	2,76E-05	0,001461	3,369082
CCL13	-2,70976	1,354881	-12,8851	2,76E-05	0,001461	3,369082
HDAC11	-2,70976	1,354881	-12,8851	2,76E-05	0,001461	3,369082
GCM1	3,988595	1,994297	12,87549	2,77E-05	0,001462	3,364887
SLC7A7	-2,95128	6,645233	-12,8515	2,80E-05	0,001464	3,354425
SOX6	3,327482	5,675684	12,84482	2,81E-05	0,001464	3,351505
TUBB6	-6,08186	3,569249	-12,8444	2,81E-05	0,001464	3,351328
RGL1	-3,99612	6,359221	-12,8307	2,82E-05	0,001467	3,345347
MKRN9P	4,465357	2,232678	12,81951	2,84E-05	0,001468	3,340436
MAP7D2	4,87086	2,768763	12,79341	2,87E-05	0,001472	3,328998
ADCY2	4,312397	2,489532	12,78933	2,87E-05	0,001472	3,327207
HSD11B1	-3,52832	1,76416	-12,7864	2,88E-05	0,001472	3,32594
CLEC11A	-2,63563	1,317815	-12,7177	2,96E-05	0,001502	3,295673
OLFML2B	-2,63563	1,317815	-12,7177	2,96E-05	0,001502	3,295673
NFAM1	-6,09137	3,574005	-12,7122	2,97E-05	0,001502	3,293223
KIF4B	5,349694	2,674847	12,68234	3,00E-05	0,001516	3,280018
RBM47	-3,95924	6,386614	-12,6092	3,10E-05	0,001549	3,247487
GRINA	-2,40432	7,505706	-12,6012	3,11E-05	0,001549	3,243928
RCC1	2,333942	6,87485	12,59103	3,12E-05	0,001549	3,239388
TLR10	1,765587	7,103031	12,58568	3,13E-05	0,001549	3,236995
ITK	1,604239	8,885751	12,58232	3,13E-05	0,001549	3,235496
ZFYVE21	-2,40884	4,196848	-12,5801	3,13E-05	0,001549	3,234488
TMEM200E	5,441112	2,720556	12,5481	3,18E-05	0,001564	3,220168
DUSP6	-3,65358	9,175828	-12,522	3,21E-05	0,001576	3,208442
NPAS3	3,140488	4,896004	12,5067	3,23E-05	0,001581	3,20157
RPL18A	2,905939	6,248527	12,42785	3,34E-05	0,001623	3,165951
FOXC2	3,995281	3,192628	12,41474	3,36E-05	0,001623	3,160001
SGK1	-3,10345	7,196243	-12,4078	3,37E-05	0,001623	3,156844
FTH1	-1,70004	10,5176	-12,402	3,38E-05	0,001623	3,154194
IL18BP	-4,90044	5,429097	-12,3988	3,38E-05	0,001623	3,152752
HLA-DQB1	-2,66536	9,611687	-12,3964	3,39E-05	0,001623	3,151688
RPL3	1,979639	7,95668	12,38059	3,41E-05	0,001623	3,144478
CALR	-2,52706	8,741988	-12,3803	3,41E-05	0,001623	3,144333
CEACAM8	2,55924	2,27962	12,36105	3,44E-05	0,001631	3,135577
OSBPL1A	-3,63716	5,635648	-12,3505	3,45E-05	0,001633	3,130741
MTRNR2L3	2,104657	5,505029	12,33765	3,47E-05	0,001636	3,124893
UPK1A	3,835105	1,917553	12,30251	3,53E-05	0,001654	3,108807
SAT1	-1,87578	9,583043	-12,2884	3,55E-05	0,001654	3,102314
FTL	-2,40436	10,65988	-12,282	3,56E-05	0,001654	3,099396
HEBP1	-2,53154	6,409753	-12,282	3,56E-05	0,001654	3,099373
CD63	-2,97801	9,997135	-12,2526	3,60E-05	0,001658	3,085883
MEOX1	-2,3023	1,151148	-12,2457	3,61E-05	0,001658	3,082692
NCCRP1	-2,3023	1,151148	-12,2457	3,61E-05	0,001658	3,082692
SPATA24	-2,3023	1,151148	-12,2457	3,61E-05	0,001658	3,082692
TALDO1	-1,96062	8,289504	-12,2102	3,67E-05	0,001669	3,066329
PASK	1,611954	8,416673	12,20878	3,67E-05	0,001669	3,06565
MILR1	-4,31709	2,158547	-12,2084	3,67E-05	0,001669	3,06546

ABCC9	3,025423	5,635911	12,19434	3,69E-05	0,001672	3,05897
NTRK3	3,11819	4,282403	12,18845	3,70E-05	0,001672	3,056243
PDGFB	-1,55545	5,494942	-12,1508	3,76E-05	0,001695	3,038789
LILRA1	-4,26263	2,131317	-12,1359	3,79E-05	0,0017	3,031853
PLSCR1	-1,68384	7,671912	-12,0773	3,89E-05	0,001738	3,004499
LRRC25	-3,59597	1,797984	-12,0714	3,90E-05	0,001738	3,001747
RBMS3	2,639371	5,935012	12,05821	3,92E-05	0,001742	2,995552
PLEKHA6	3,312213	1,656106	12,04862	3,94E-05	0,001744	2,991054
IFNGR2	-2,23867	7,323019	-12,0342	3,96E-05	0,001749	2,984306
MNDA	-3,19519	8,124856	-11,9936	4,03E-05	0,001775	2,965189
ZFP2	3,631606	1,815803	11,94661	4,12E-05	0,001803	2,942968
LINC00461	3,02001	5,119913	11,94412	4,12E-05	0,001803	2,941791
LTA4H	-1,57393	8,885825	-11,9195	4,17E-05	0,001812	2,930127
GPR85	3,516916	2,953445	11,91378	4,18E-05	0,001812	2,927397
SAMHD1	-1,50215	9,548074	-11,9127	4,18E-05	0,001812	2,926875
SLC15A3	-3,69585	5,988615	-11,8936	4,21E-05	0,001819	2,917788
CD9	-3,04423	7,574036	-11,8827	4,23E-05	0,001819	2,912632
MS4A6A	-4,14177	4,837289	-11,8789	4,24E-05	0,001819	2,910792
LYN	-1,7228	9,221963	-11,8758	4,25E-05	0,001819	2,909346
ATP11A	-1,53483	6,688622	-11,8579	4,28E-05	0,001828	2,900809
MCU	-1,50054	4,521989	-11,8391	4,32E-05	0,001836	2,891814
IRX2	3,155791	5,990498	11,83498	4,32E-05	0,001836	2,889832
GAS5	1,631019	8,32796	11,80778	4,38E-05	0,001853	2,876799
GPR108	-2,09654	4,148007	-11,7996	4,39E-05	0,001854	2,872858
ALB	4,751676	2,375838	11,77715	4,44E-05	0,001867	2,862086
GAL3ST1	5,178739	2,589369	11,77009	4,45E-05	0,001867	2,858689
PLEKHO1	-1,9548	8,847904	-11,6774	4,64E-05	0,001941	2,813866
CEBPA	-6,90456	4,118944	-11,6673	4,66E-05	0,001944	2,808965
PDE2A	5,937645	3,302156	11,64557	4,71E-05	0,001957	2,798405
PIWIL2	4,267685	3,769473	11,63982	4,72E-05	0,001957	2,795602
ADAMTS1	-2,38998	1,194988	-11,6259	4,75E-05	0,001963	2,788817
MAPKAPK3	-3,40238	4,303642	-11,5937	4,82E-05	0,001981	2,773094
APOLD1	3,055438	5,132313	11,58396	4,84E-05	0,001981	2,768317
C2orf76	2,342157	4,863351	11,58183	4,85E-05	0,001981	2,767273
LILRB5	-2,95058	1,475292	-11,5807	4,85E-05	0,001981	2,766709
SIGLEC5	-3,3023	1,651148	-11,5696	4,87E-05	0,001984	2,761275
SDCBP	-1,57157	10,13874	-11,565	4,88E-05	0,001984	2,759001
B3GALT2	2,502744	5,087304	11,55375	4,91E-05	0,001988	2,753502
PDE7B	1,818377	5,764877	11,54534	4,93E-05	0,00199	2,749369
FOSB	-5,20584	2,602921	-11,5307	4,96E-05	0,001998	2,742173
TLR2	-4,25003	5,775441	-11,5076	5,01E-05	0,002009	2,730782
PLCD1	-3,62345	1,811727	-11,5033	5,02E-05	0,002009	2,728658
ADRA2B	5,277003	2,638502	11,49118	5,05E-05	0,002009	2,722676
DIRC2	-4,21486	3,881406	-11,4895	5,05E-05	0,002009	2,721854
RAPGEF4	4,055806	2,361236	11,48686	5,06E-05	0,002009	2,720544
RPL13AP2C	2,921624	3,429775	11,4686	5,10E-05	0,002014	2,711512
SLC31A2	-3,90355	5,490013	-11,464	5,11E-05	0,002014	2,70925
LGALS1	-2,7295	6,744386	-11,4568	5,13E-05	0,002014	2,705658
PLCB3	-3,58496	1,792481	-11,444	5,16E-05	0,002014	2,69934
SUMO3	-2,08757	8,582398	-11,4338	5,19E-05	0,002014	2,694231
CLN6	-2,7664	1,383201	-11,4217	5,21E-05	0,002014	2,688261
DDO	-2,7664	1,383201	-11,4217	5,21E-05	0,002014	2,688261

PLCD4	2,766403	1,383201	11,42174	5,21E-05	0,002014	2,688261
RETN	-2,7664	1,383201	-11,4217	5,21E-05	0,002014	2,688261
UPK2	2,766403	1,383201	11,42174	5,21E-05	0,002014	2,688261
C4orf48	-3,68825	2,177457	-11,3924	5,29E-05	0,002036	2,67366
PRKCD	-2,2439	7,761629	-11,3832	5,31E-05	0,002039	2,669037
TEX21P	4,980013	2,82334	11,35474	5,38E-05	0,002055	2,654837
HEATR3	-1,82751	5,77977	-11,3529	5,38E-05	0,002055	2,653892
RPAP2	1,523423	7,738131	11,3471	5,40E-05	0,002055	2,651012
ATP6V1A	-1,76079	7,712791	-11,3428	5,41E-05	0,002055	2,648843
RPS25	1,553238	9,329801	11,30856	5,49E-05	0,002082	2,631678
H2AFY	-1,47819	9,556326	-11,2972	5,52E-05	0,002088	2,625938
RPL21P44	2,200606	4,717553	11,29045	5,54E-05	0,002088	2,622563
PMCHL2	2,465643	5,062269	11,25228	5,64E-05	0,002105	2,603313
LILRB1	-1,89035	6,020244	-11,2473	5,65E-05	0,002105	2,600803
ASNS	1,721822	3,358195	11,2339	5,69E-05	0,002105	2,594015
LNP1	4,861184	3,097259	11,23174	5,69E-05	0,002105	2,59292
SLC39A11	-1,80567	4,767922	-11,2249	5,71E-05	0,002105	2,58947
ACOXL	2,830618	1,415309	11,2219	5,72E-05	0,002105	2,587935
FOXJ1	2,830618	1,415309	11,2219	5,72E-05	0,002105	2,587935
MYCBPAP	2,830618	1,415309	11,2219	5,72E-05	0,002105	2,587935
PAIP2B	-2,83062	1,415309	-11,2219	5,72E-05	0,002105	2,587935
KCNJ2	-2,0342	4,181049	-11,2174	5,73E-05	0,002105	2,585653
GM2A	-3,36194	6,630772	-11,2007	5,78E-05	0,002114	2,577159
PXDC1	-3,93672	1,968362	-11,1973	5,79E-05	0,002114	2,575446
CD33	-5,04091	3,382109	-11,1863	5,82E-05	0,002119	2,569845
NCEH1	-4,32934	5,785551	-11,1805	5,83E-05	0,002119	2,566894
RALB	-1,39286	6,949656	-11,1581	5,89E-05	0,002132	2,555521
GRN	-4,40328	8,000083	-11,1527	5,91E-05	0,002132	2,552727
HDAC9	1,569205	6,139573	11,15066	5,92E-05	0,002132	2,551713
PYGM	4,634141	2,650404	11,14429	5,93E-05	0,002132	2,54846
HNRNPA1	1,469403	10,2611	11,13656	5,95E-05	0,002132	2,544511
GAS2L1	-3,2264	4,053844	-11,135	5,96E-05	0,002132	2,543736
PECAM1	-2,22458	6,050218	-11,1181	6,01E-05	0,002134	2,535056
CD74	-1,62655	10,84086	-11,1084	6,03E-05	0,002134	2,530111
DZIP1L	-3,2049	1,602452	-11,1065	6,04E-05	0,002134	2,529144
DUOXA1	3,204903	1,602452	11,10652	6,04E-05	0,002134	2,529144
RTP1	3,204903	1,602452	11,10652	6,04E-05	0,002134	2,529144
ATF3	-2,25881	5,25514	-11,0996	6,06E-05	0,002136	2,525613
LPAR1	-5,24871	3,152674	-11,0914	6,08E-05	0,002136	2,521363
SLFN11	-1,90976	6,371323	-11,089	6,09E-05	0,002136	2,520182
THAP8	-3,05664	1,528321	-11,0771	6,12E-05	0,002143	2,514048
KLB	3,438383	2,052525	11,04579	6,22E-05	0,002167	2,497931
COL19A1	2,658047	5,831209	11,04287	6,22E-05	0,002167	2,496426
FBP1	-7,54116	4,544557	-11,0218	6,29E-05	0,002178	2,485539
PEA15	-2,93814	7,998858	-11,0215	6,29E-05	0,002178	2,485384
PLXNC1	-1,82599	7,878872	-11,0121	6,32E-05	0,002183	2,480528
CCR1	-3,37588	8,376664	-11,0059	6,33E-05	0,002184	2,477326
HLA-DPB1	-1,88013	9,189662	-10,9956	6,37E-05	0,002189	2,472022
FAM66C	3,547952	2,440643	10,97928	6,42E-05	0,002201	2,463541
GLT1D1	-4,83593	3,27962	-10,9718	6,44E-05	0,002204	2,45966
ATP6V1G2	3,201304	4,948783	10,94843	6,51E-05	0,002217	2,447516
FOS	-3,6961	7,926666	-10,9449	6,52E-05	0,002217	2,445688

SEZ6	4,8026	2,734633	10,94417	6,52E-05	0,002217	2,445297
IRAK3	-4,24744	5,744599	-10,8882	6,70E-05	0,002272	2,416097
DNAJC28	-3,73322	2,199945	-10,8803	6,73E-05	0,002275	2,411939
CHRNA9	6,22167	3,110835	10,87307	6,75E-05	0,002277	2,408164
UXT	1,344943	7,79075	10,85831	6,80E-05	0,002288	2,400424
PRDX1	-2,26377	8,742203	-10,8242	6,91E-05	0,002321	2,382516
ARHGAP10	-2,13	6,597761	-10,8175	6,93E-05	0,002323	2,378956
ACVRL1	-3,98485	1,992427	-10,793	7,02E-05	0,002345	2,366018
TNFSF13B	-2,58291	8,253074	-10,7771	7,07E-05	0,002355	2,357614
PRRG4	-3,32931	4,269248	-10,7731	7,09E-05	0,002355	2,355519
HOMER1	1,930187	5,783536	10,76528	7,11E-05	0,002355	2,351377
MAFB	-6,53261	6,607094	-10,7651	7,11E-05	0,002355	2,351274
SNHG8	1,656707	9,496374	10,72187	7,26E-05	0,002399	2,32834
HEXB	-1,87304	8,105949	-10,7078	7,31E-05	0,00241	2,320865
DUSP1	-3,66129	7,260508	-10,6941	7,36E-05	0,002414	2,313555
CD274	-1,39248	6,738276	-10,6909	7,37E-05	0,002414	2,311846
PNPLA3	3,703277	2,184972	10,68644	7,39E-05	0,002414	2,309462
S100A12	-4,52329	3,123297	-10,681	7,41E-05	0,002414	2,306578
RNASE6	-4,43361	4,347575	-10,6807	7,41E-05	0,002414	2,306395
TCTE1	4,159253	2,41296	10,6721	7,44E-05	0,002418	2,301804
ZDHHC14	1,656385	6,368943	10,66	7,49E-05	0,002427	2,295335
RPL22	1,627264	9,471833	10,65275	7,51E-05	0,00243	2,291451
LRRN3	1,436718	7,472955	10,64116	7,56E-05	0,002439	2,285242
CFB	-3,5026	1,751299	-10,6282	7,61E-05	0,002449	2,278276
VIM	-2,25619	9,963487	-10,6067	7,69E-05	0,002466	2,266756
FAM71F1	3,797976	1,898988	10,60464	7,69E-05	0,002466	2,265632
SLAMF7	-2,00775	8,688465	-10,5996	7,71E-05	0,002467	2,26291
ZNF304	2,466967	5,659633	10,57846	7,79E-05	0,002483	2,251525
MAGI1	2,826768	4,898493	10,57379	7,81E-05	0,002483	2,249008
TFEC	-1,85792	7,990816	-10,5721	7,82E-05	0,002483	2,248108
CD14	-6,70153	4,791407	-10,5358	7,96E-05	0,002523	2,228492
GALNT5	2,649927	5,407606	10,51593	8,04E-05	0,002542	2,217696
IMPDH1	-4,56999	3,146648	-10,5085	8,07E-05	0,002546	2,213664
LRRC3	-3,20244	1,601222	-10,4936	8,13E-05	0,002555	2,205563
PDE8B	3,970214	2,31844	10,48893	8,15E-05	0,002555	2,203021
EIF3F	1,626557	7,849668	10,48799	8,15E-05	0,002555	2,202511
SSTR3	2,432917	4,476912	10,46807	8,23E-05	0,00257	2,191659
CSGALNAC	1,570431	7,526391	10,46678	8,24E-05	0,00257	2,190954
CDCP1	-2,99243	1,496213	-10,4598	8,27E-05	0,002574	2,187146
CLEC10A	-7,25099	4,399471	-10,442	8,34E-05	0,002591	2,177417
NEK6	-3,9655	5,046848	-10,4318	8,38E-05	0,002597	2,171837
CSF3R	-2,20593	4,586703	-10,4284	8,40E-05	0,002597	2,169954
DPYSL2	-2,60041	7,710263	-10,4053	8,50E-05	0,002615	2,157308
PTPN12	-1,44372	7,988581	-10,4036	8,50E-05	0,002615	2,156376
CD300LB	-4,0296	2,014798	-10,4017	8,51E-05	0,002615	2,155322
RPL23P8	2,111833	6,034182	10,39463	8,54E-05	0,002619	2,151459
ASAHI	-2,19048	8,637638	-10,3805	8,60E-05	0,002631	2,143683
DPH5	1,675977	7,083939	10,37608	8,62E-05	0,002631	2,141261
PAX5	1,262648	7,416645	10,37231	8,64E-05	0,002631	2,139186
TUBA1B	-2,30737	9,072631	-10,361	8,69E-05	0,00264	2,132964
ADM	-2,6437	4,698279	-10,3472	8,75E-05	0,002653	2,125363
ZNF528	1,825713	5,274791	10,33413	8,80E-05	0,002665	2,118129

CD68	-6,64759	4,626094	-10,3201	8,87E-05	0,002668	2,110389
EEPD1	-4,45844	3,090873	-10,3191	8,87E-05	0,002668	2,109801
WNT5A	2,241806	4,89262	10,30873	8,92E-05	0,002668	2,104072
CD1E	-2,88129	1,440643	-10,3072	8,93E-05	0,002668	2,103209
MIR3671	-2,88129	1,440643	-10,3072	8,93E-05	0,002668	2,103209
SCN4B	3,80313	1,901565	10,30608	8,93E-05	0,002668	2,102602
SLC8A1	-5,33061	5,987233	-10,3026	8,95E-05	0,002668	2,100698
SERPINF1	-4,06737	2,367021	-10,2979	8,97E-05	0,002669	2,098073
ATP6V1B2	-2,21474	8,732587	-10,2757	9,07E-05	0,002679	2,085764
CCR3	-1,71996	4,02393	-10,2754	9,07E-05	0,002679	2,085599
NPHP1	2,646635	2,713293	10,27206	9,09E-05	0,002679	2,083719
PTPRH	4,67861	2,339305	10,26596	9,11E-05	0,002679	2,080323
CPNE5	1,874083	5,500701	10,2659	9,11E-05	0,002679	2,080291
MST1	2,136856	3,791737	10,26574	9,11E-05	0,002679	2,080198
GZMM	-2,81707	1,408535	-10,2475	9,20E-05	0,002698	2,070027
BTBD11	1,521346	5,995776	10,23864	9,24E-05	0,0027	2,065102
GK	-1,93825	5,878237	-10,2327	9,27E-05	0,0027	2,06178
TMEM53	-3,5496	2,108134	-10,2283	9,29E-05	0,0027	2,059304
CR1L	-1,72331	0,861654	-10,2282	9,29E-05	0,0027	2,059257
ODF3B	-3,57142	1,785708	-10,2211	9,32E-05	0,0027	2,055298
LRFN3	-3,32576	1,66288	-10,2208	9,33E-05	0,0027	2,055141
AP1S2	-2,22893	8,588725	-10,2173	9,34E-05	0,0027	2,05318
SLC4A10	2,427503	4,447231	10,2122	9,37E-05	0,0027	2,05033
MAPK7	-3,53175	1,765876	-10,2001	9,42E-05	0,0027	2,043527
COMTD1	-3,09513	1,547567	-10,1947	9,45E-05	0,0027	2,040503
UNC13B	-3,09513	1,547567	-10,1947	9,45E-05	0,0027	2,040503
IL27	-3,09513	1,547567	-10,1947	9,45E-05	0,0027	2,040503
LIMS1	-1,52631	8,41448	-10,1935	9,46E-05	0,0027	2,039857
RCN1	-1,58897	4,566203	-10,1891	9,48E-05	0,002701	2,03741
HLA-DQA1	-2,98412	9,419921	-10,1652	9,59E-05	0,002722	2,02399
CHRNA1	2,376428	1,188214	10,15332	9,65E-05	0,002722	2,017288
KLK11	2,376428	1,188214	10,15332	9,65E-05	0,002722	2,017288
TNFSF11	-2,37643	1,188214	-10,1533	9,65E-05	0,002722	2,017288
KCNJ14	2,3864	5,091464	10,14871	9,68E-05	0,002722	2,014697
GPX1	-3,49616	6,756116	-10,1426	9,71E-05	0,002722	2,011273
ENAH	2,80836	5,402298	10,14259	9,71E-05	0,002722	2,011249
P2RY6	-5,21816	3,137399	-10,1394	9,72E-05	0,002722	2,00943
PGD	-2,13893	6,492195	-10,1386	9,73E-05	0,002722	2,009006
RPS3A	1,539888	7,74036	10,11861	9,83E-05	0,002745	1,99772
ZSCAN18	1,864351	5,358325	10,10161	9,91E-05	0,002764	1,988112
TEX29	3,451931	3,694929	10,08815	9,98E-05	0,002778	1,98049
UBTD1	-3,29012	1,645061	-10,0827	0,0001	0,00278	1,977387
ME1	-6,08589	4,345242	-10,0536	0,000102	0,002799	1,960911
ESPNL	2,937927	1,468964	10,05093	0,000102	0,002799	1,959367
INHBB	2,937927	1,468964	10,05093	0,000102	0,002799	1,959367
SAG	2,937927	1,468964	10,05093	0,000102	0,002799	1,959367
PON2	-2,01654	3,222891	-10,0503	0,000102	0,002799	1,958989
SLC25A5-A'	1,792837	4,665675	10,0431	0,000102	0,002804	1,954913
EMILIN2	-3,58445	5,809973	-10,0351	0,000103	0,002809	1,950378
DCTN5	1,436386	6,648538	10,03267	0,000103	0,002809	1,94897
CTSH	-2,94477	7,685801	-10,0245	0,000103	0,002809	1,944322
CBR1	-1,5852	5,872466	-10,0224	0,000103	0,002809	1,943097

RPL36A	1,432619	6,941858	10,01748	0,000104	0,002809	1,940315
PAN3-AS1	3,46325	3,1216	10,01744	0,000104	0,002809	1,940289
NELL2	1,661453	8,967376	10,00501	0,000104	0,002822	1,933193
HSD17B4	-1,61851	7,591956	-10,0005	0,000104	0,002823	1,930606
OR9Q1	3,10505	2,219192	9,974956	0,000106	0,002855	1,915995
PPT1	-2,50299	7,687274	-9,97031	0,000106	0,002857	1,913329
SERPING1	-6,81547	4,181712	-9,96447	0,000106	0,00286	1,909982
RXRA	-2,49163	6,938363	-9,95546	0,000107	0,002868	1,90481
TBC1D15	1,356236	9,175581	9,918517	0,000109	0,002919	1,883558
THBS1	-2,83742	7,543167	-9,88574	0,000111	0,002944	1,864634
CD101	-3,20244	1,934555	-9,87441	0,000112	0,002944	1,858079
REPS2	-3,20244	1,934555	-9,87441	0,000112	0,002944	1,858079
EEF1B2	1,444697	9,025037	9,873997	0,000112	0,002944	1,857838
CXCL16	-1,89371	6,156639	-9,87384	0,000112	0,002944	1,857747
SPIRE2	2,420829	4,558546	9,873539	0,000112	0,002944	1,857573
GJC2	3,955953	2,31131	9,87312	0,000112	0,002944	1,857331
LY96	-1,54831	5,925932	-9,87242	0,000112	0,002944	1,856925
ITPRIPL2	-3,32401	6,872378	-9,86983	0,000112	0,002944	1,855423
ZNF417	1,693881	5,976728	9,866428	0,000112	0,002944	1,853454
ZNF585B	2,213449	5,146155	9,809405	0,000115	0,003028	1,820313
CLEC12A	-3,4149	5,519687	-9,80582	0,000116	0,003028	1,818222
GAS7	-1,43505	7,840529	-9,78172	0,000117	0,003056	1,804152
JUNB	-1,41897	9,174959	-9,78155	0,000117	0,003056	1,804051
IFNGR1	-1,56911	7,386887	-9,77477	0,000118	0,003057	1,80009
MTRNR2L1	1,544619	9,065761	9,772649	0,000118	0,003057	1,798847
HS6ST1	-2,32064	3,129286	-9,76989	0,000118	0,003057	1,797236
CES1	-2,53824	1,269118	-9,76682	0,000118	0,003057	1,795435
C12orf73	1,48082	4,879694	9,763625	0,000118	0,003057	1,793565
CORO1C	-2,63942	7,165116	-9,75311	0,000119	0,003069	1,787406
SLC19A2	-3,23808	1,952374	-9,7443	0,00012	0,003078	1,782235
ANKRD33	3,369944	2,351638	9,724548	0,000121	0,003104	1,770633
PHLDB3	-3,03443	1,850548	-9,71753	0,000121	0,003108	1,766505
LEAP2	2,848643	3,726618	9,710784	0,000122	0,003108	1,762534
EPB41L4A-	1,452805	8,558089	9,709794	0,000122	0,003108	1,761951
STX11	-2,64012	5,68508	-9,70885	0,000122	0,003108	1,761392
ZMIZ1	-1,687	7,741227	-9,7049	0,000122	0,003109	1,759067
KIAA0930	-3,41238	7,950295	-9,7014	0,000122	0,003109	1,757004
KCTD15	-2,74294	1,37147	-9,68933	0,000123	0,003116	1,749889
OCIAD2	1,632365	7,100575	9,686993	0,000123	0,003116	1,748507
NUP153	1,241937	7,448163	9,686024	0,000123	0,003116	1,747935
FGR	-2,50178	6,915144	-9,68407	0,000123	0,003116	1,746781
COTL1	-1,39643	9,868962	-9,66666	0,000125	0,003122	1,73649
PTPRE	-1,49658	8,905633	-9,66659	0,000125	0,003122	1,736448
SLC43A2	-1,50911	7,690005	-9,65999	0,000125	0,003122	1,732544
ORC5	1,586893	5,806362	9,657458	0,000125	0,003122	1,731045
RPL13AP5	1,592366	8,979715	9,65671	0,000125	0,003122	1,730602
RPL29	1,435681	8,518477	9,655733	0,000125	0,003122	1,730024
SOD2	-1,55001	7,866244	-9,6542	0,000125	0,003122	1,729113
TUBB4B	-2,21349	5,131459	-9,65346	0,000125	0,003122	1,728678
FGF12	2,809279	4,656269	9,650839	0,000126	0,003122	1,727124
TTYH1	2,604594	1,302297	9,63792	0,000127	0,003127	1,719464
UBQLNL	2,604594	1,302297	9,63792	0,000127	0,003127	1,719464

WDR64	3,138449	2,902558	9,637133	0,000127	0,003127	1,718997
COL18A1	1,944847	5,260227	9,634324	0,000127	0,003127	1,71733
CLEC4D	-4,69018	2,873411	-9,63158	0,000127	0,003127	1,715701
ST7L	1,31082	4,712052	9,623193	0,000128	0,003132	1,710719
TXN	-1,43283	9,181764	-9,621	0,000128	0,003132	1,709414
ACOT9	-1,90749	5,544791	-9,61674	0,000128	0,003132	1,706883
IGF1	2,293348	4,533298	9,615063	0,000128	0,003132	1,705886
CXCL9	-3,09712	8,784712	-9,60982	0,000128	0,003132	1,702768
GSTO2	4,301482	2,484074	9,609113	0,000129	0,003132	1,702346
CYP1B1	-4,59233	10,62679	-9,60194	0,000129	0,003138	1,698076
LOXL2	2,846494	3,725544	9,59886	0,000129	0,003138	1,696241
ARID3A	-1,51887	7,7321	-9,59414	0,00013	0,003141	1,693428
HSPA5	-1,41155	9,680399	-9,5893	0,00013	0,003144	1,690542
SPHK1	-3,84119	1,920594	-9,5705	0,000131	0,003171	1,679319
SH3BP2	-1,55676	6,140315	-9,56503	0,000132	0,003175	1,676053
TMEM116	1,699344	6,052115	9,556742	0,000132	0,003183	1,671094
ANO6	-1,49084	7,197144	-9,55386	0,000132	0,003183	1,669371
GTF2H2	-3,38998	1,694988	-9,54761	0,000133	0,003184	1,665627
MPP1	-2,71896	6,895759	-9,54676	0,000133	0,003184	1,665119
LPIN1	1,422122	7,679355	9,544049	0,000133	0,003184	1,663493
CXCR5	1,677012	6,457898	9,527537	0,000134	0,003207	1,653591
LMLN	1,558969	5,791542	9,515133	0,000135	0,00322	1,64614
RPS2	1,263618	9,523661	9,513668	0,000135	0,00322	1,64526
ZNF461	1,565788	4,230993	9,503737	0,000136	0,003225	1,639288
PDIA6	-1,58598	8,901973	-9,4962	0,000137	0,003225	1,63475
SLC6A13	3,762571	1,881285	9,496162	0,000137	0,003225	1,634728
TRIM72	3,762571	1,881285	9,496162	0,000137	0,003225	1,634728
ZNF550	1,403537	7,227212	9,495847	0,000137	0,003225	1,634538
GABRB1	3,152232	2,771104	9,486927	0,000137	0,003228	1,629164
RBMS2	-3,13077	1,565386	-9,48463	0,000137	0,003228	1,627779
RUSC2	-3,13077	1,565386	-9,48463	0,000137	0,003228	1,627779
MS4A1	1,27969	10,15821	9,478378	0,000138	0,003234	1,624008
C12orf57	1,583694	7,560629	9,462332	0,000139	0,003257	1,614319
SPR	-3,58524	1,79262	-9,45351	0,00014	0,003267	1,608987
PDK4	-5,56827	3,891446	-9,43667	0,000141	0,003292	1,598786
SLC2A5	-2,9183	1,459148	-9,42048	0,000142	0,003316	1,588972
FGF18	4,386689	2,860011	9,405945	0,000144	0,003337	1,58014
GLIPR2	-1,7601	7,297791	-9,39762	0,000144	0,003347	1,575076
CROCCP3	-3,11328	1,889975	-9,38571	0,000145	0,003358	1,567827
C1QA	-4,21236	2,967834	-9,38333	0,000145	0,003358	1,566374
ZNF502	1,813223	3,639836	9,382485	0,000145	0,003358	1,56586
DAZAP1	1,277754	8,59636	9,362	0,000147	0,003391	1,553361
PRKAA2	2,874808	5,63333	9,357385	0,000147	0,003394	1,550542
UCK2	-3,49728	2,081976	-9,33672	0,000149	0,003426	1,537898
NFKBIA	-1,26975	11,07476	-9,33328	0,000149	0,003426	1,535792
NAALADL2	2,929061	5,282973	9,331556	0,00015	0,003426	1,534737
SLAMF8	-5,99944	4,44036	-9,324	0,00015	0,003435	1,530105
ZNF300P1	3,497284	1,748642	9,313384	0,000151	0,00345	1,523591
RPUSD2	1,471153	7,026712	9,291903	0,000153	0,003483	1,510388
C4orf33	-1,93108	5,083622	-9,28925	0,000153	0,003483	1,508755
RPS5	1,258576	9,95305	9,287554	0,000153	0,003483	1,507711
LTBR	-5,6786	3,946612	-9,27054	0,000155	0,00351	1,497225

TUFT1	-3,63863	2,152647	-9,24559	0,000157	0,003551	1,481818
PLCH2	1,536053	4,735108	9,244186	0,000157	0,003551	1,480951
GUSBP1	1,314172	4,561834	9,239773	0,000157	0,003554	1,478221
NHLH2	2,449912	6,402733	9,236277	0,000158	0,003555	1,476057
LIN7A	-3,22059	1,610296	-9,22827	0,000158	0,003565	1,471097
ANPEP	-5,12033	4,724116	-9,2202	0,000159	0,003576	1,466099
LAMP2	-1,18881	9,252109	-9,20094	0,000161	0,003604	1,454141
ZNF585A	2,02428	5,996903	9,200611	0,000161	0,003604	1,453938
DERA	-1,33599	5,210277	-9,1854	0,000162	0,003624	1,444477
CEBPB	-1,38017	9,183298	-9,18506	0,000162	0,003624	1,444266
CDK5R1	1,916209	7,255065	9,180116	0,000163	0,003626	1,441189
RPL12	1,133062	9,527091	9,177884	0,000163	0,003626	1,439799
CABP4	4,02956	4,34054	9,175325	0,000163	0,003626	1,438205
SNX11	-2,84202	4,358939	-9,16761	0,000164	0,003637	1,433399
CXCL10	-3,22204	7,790046	-9,15121	0,000165	0,003665	1,423162
SH3BGRL3	-1,18881	8,084432	-9,13585	0,000167	0,003691	1,413559
PSPH	3,674278	4,893781	9,127522	0,000168	0,003699	1,408345
WSB2	-2,07385	5,721341	-9,1264	0,000168	0,003699	1,407642
LINC00347	2,67771	4,081794	9,121715	0,000168	0,003703	1,404707
BLVRB	-2,48245	5,699616	-9,11031	0,000169	0,003721	1,397556
TLL1	2,739185	4,287888	9,105466	0,00017	0,003725	1,394516
ANGPTL6	-3,0641	1,865382	-9,06534	0,000174	0,003805	1,369272
COL7A1	4,114765	2,390716	9,056836	0,000174	0,003818	1,363909
GPX4	-1,27758	6,962518	-9,05363	0,000175	0,003819	1,361887
TSPAN4	-3,22203	3,741789	-9,04176	0,000176	0,003831	1,35439
PRR5L	1,191617	7,660297	9,041441	0,000176	0,003831	1,354186
NEB	4,045437	5,486825	9,040027	0,000176	0,003831	1,353293
TXNDC17	-1,75999	6,587056	-9,03619	0,000177	0,003832	1,350864
ACOT11	-3,99433	1,997166	-9,0179	0,000178	0,003832	1,339287
IDH1	-2,59798	5,603411	-9,01774	0,000178	0,003832	1,339184
S100A9	-2,88184	8,254408	-9,01393	0,000179	0,003832	1,336772
BEND3	-1,96896	0,984482	-9,0099	0,000179	0,003832	1,334216
DCAF4L2	1,968964	0,984482	9,009901	0,000179	0,003832	1,334216
DPPA4	-1,96896	0,984482	-9,0099	0,000179	0,003832	1,334216
RIMKLA	1,968964	0,984482	9,009901	0,000179	0,003832	1,334216
SMOC1	1,968964	0,984482	9,009901	0,000179	0,003832	1,334216
TMC7	1,968964	0,984482	9,009901	0,000179	0,003832	1,334216
TMEM102	-1,96896	0,984482	-9,0099	0,000179	0,003832	1,334216
IL19	3,81707	1,908535	9,001874	0,00018	0,003844	1,329123
RNASEK	2,495219	4,152358	8,996349	0,000181	0,003847	1,325615
DUSP3	-2,73889	6,317286	-8,99248	0,000181	0,003847	1,323156
DZIP1	3,709761	1,854881	8,990717	0,000181	0,003847	1,322037
YBEY	1,715901	5,045365	8,989045	0,000181	0,003847	1,320973
C9orf72	-1,29099	6,654918	-8,98745	0,000182	0,003847	1,319962
ITGAX	-3,21473	6,418692	-8,9743	0,000183	0,00387	1,311594
CCR2	-5,19606	4,516324	-8,96986	0,000183	0,003874	1,308766
GNPNAT1	-1,34063	5,711688	-8,95907	0,000185	0,003892	1,301889
GLB1	-1,81681	7,374207	-8,9522	0,000185	0,0039	1,297505
HNMT	-6,09596	3,821958	-8,95041	0,000185	0,0039	1,296364
NETO2	-2,02751	5,139494	-8,94799	0,000186	0,0039	1,294815
C1S	4,47447	3,960544	8,938022	0,000187	0,003914	1,28845
SNRPA1	1,314075	6,546647	8,936748	0,000187	0,003914	1,287635

NFKBIZ	-1,33751	8,624	-8,91941	0,000189	0,00394	1,276539
SLC27A3	-2,11207	5,992291	-8,91539	0,000189	0,00394	1,273963
SGMS2	-4,37471	2,715674	-8,91413	0,000189	0,00394	1,273159
ZNF831	1,517091	7,31044	8,912305	0,00019	0,00394	1,271988
NFIB	2,486625	3,878943	8,912146	0,00019	0,00394	1,271886
KLF4	-6,18913	3,868541	-8,90562	0,00019	0,00394	1,267699
EGR1	-2,91759	8,293175	-8,90495	0,00019	0,00394	1,267272
SIRPB1	-5,22133	3,277334	-8,90466	0,00019	0,00394	1,267086
PILRA	-3,53565	5,818797	-8,89326	0,000192	0,003941	1,259769
ADAL	1,34256	6,15844	8,8932	0,000192	0,003941	1,259729
KATNAL2	2,851316	3,394622	8,890257	0,000192	0,003941	1,257838
RAB15	-3,02561	1,512803	-8,89006	0,000192	0,003941	1,257713
CLN8	-1,42724	5,586796	-8,8881	0,000192	0,003941	1,256455
CREM	1,63924	8,419351	8,887346	0,000192	0,003941	1,255968
CD5	1,129879	8,334249	8,885631	0,000192	0,003941	1,254865
ALG12	-2,04895	4,12421	-8,88303	0,000193	0,003941	1,253195
FNDC3B	-1,40978	7,745089	-8,88168	0,000193	0,003941	1,252322
NEUROD1	3,107381	3,87945	8,870176	0,000194	0,003961	1,244921
RPS15	1,250046	9,173979	8,865544	0,000195	0,003966	1,241938
FLRT3	3,08222	3,843407	8,855375	0,000196	0,003981	1,235382
MB21D2	-2,06196	4,740739	-8,85282	0,000196	0,003981	1,233734
TACSTD2	-2,83062	1,748642	-8,84926	0,000197	0,003981	1,231437
KCND2	2,830618	1,748642	8,84926	0,000197	0,003981	1,231437
EEF1D	1,156016	10,21196	8,838599	0,000198	0,004	1,224552
LYRM4	1,226083	6,035127	8,830185	0,000199	0,004014	1,219113
BID	-1,81449	6,527969	-8,82109	0,0002	0,004027	1,213225
KCNJ15	-1,44447	2,936856	-8,81968	0,0002	0,004027	1,212312
ZNF383	1,784003	6,606748	8,807603	0,000201	0,004049	1,204489
NEU3	-1,345	5,48957	-8,80323	0,000202	0,004053	1,201656
WDR5B	1,995777	5,185303	8,799793	0,000202	0,004053	1,199424
PCDHB9	2,943241	2,138287	8,798597	0,000202	0,004053	1,198648
RAP1GAP	3,483737	2,075202	8,786219	0,000204	0,004071	1,190609
SNTN	3,483737	2,075202	8,786219	0,000204	0,004071	1,190609
RNU11	2,978879	2,156106	8,776513	0,000205	0,004085	1,184297
SERPINA1	-4,21589	2,636268	-8,7757	0,000205	0,004085	1,18377
RPS23	1,083196	10,78936	8,768834	0,000206	0,004094	1,179299
DPRXP4	-2,78877	1,394387	-8,76723	0,000206	0,004094	1,178258
CMTM6	-1,07536	9,690428	-8,76323	0,000207	0,004098	1,175651
AVIL	3,899653	5,252123	8,755241	0,000208	0,004107	1,170442
CHRNA6	4,007456	2,003728	8,754642	0,000208	0,004107	1,170051
GPLD1	2,453299	4,113909	8,747506	0,000209	0,004118	1,165396
INSL3	3,951136	3,170555	8,741785	0,000209	0,004126	1,16166
SIGLEC16	-2,44064	1,220321	-8,73087	0,000211	0,004135	1,154528
NUPR1	-2,44064	1,220321	-8,73087	0,000211	0,004135	1,154528
SEMA4F	-2,44064	1,220321	-8,73087	0,000211	0,004135	1,154528
PSD3	1,828674	6,118137	8,716851	0,000212	0,004164	1,145354
GNAI2	-1,19997	9,035791	-8,70809	0,000213	0,004165	1,139612
ROGDI	-4,19681	2,626726	-8,706	0,000214	0,004165	1,138244
H3F3B	-1,19719	11,20797	-8,70027	0,000214	0,004165	1,134488
CD6	1,284474	7,82423	8,69856	0,000215	0,004165	1,133364
DISP2	3,114231	3,613757	8,696885	0,000215	0,004165	1,132265
POLN	3,904279	4,618806	8,696724	0,000215	0,004165	1,132159

RNF130	-2,16333	6,988536	-8,69653	0,000215	0,004165	1,132032
DAB2	-2,00116	7,177962	-8,69532	0,000215	0,004165	1,131237
ALPK3	4,649456	2,658061	8,695134	0,000215	0,004165	1,131115
RPL10A	1,235704	9,854284	8,685921	0,000216	0,004179	1,125064
CST6	-2,95679	1,478394	-8,68485	0,000216	0,004179	1,124359
SLCO4A1	1,675592	5,538892	8,681518	0,000217	0,00418	1,122171
H1FX	-1,48537	7,768836	-8,67999	0,000217	0,00418	1,121166
CCDC88A	-1,89412	8,967762	-8,663	0,000219	0,004209	1,109984
UBE2T	-2,67535	2,865998	-8,66136	0,000219	0,004209	1,108905
RPS27	1,859789	7,529892	8,660213	0,00022	0,004209	1,108147
MTHFD2	-1,43707	8,676918	-8,65921	0,00022	0,004209	1,10749
SLC7A11	-2,1165	8,341203	-8,6491	0,000221	0,004228	1,100817
STAB1	-3,86645	4,453974	-8,61962	0,000225	0,004297	1,081336
RSL1D1	1,16649	9,235854	8,607992	0,000227	0,004321	1,073635
LRPAP1	-1,4916	7,336247	-8,60154	0,000227	0,004331	1,069356
ACOX1	-1,18491	6,243094	-8,59962	0,000228	0,004331	1,068081
SPPL2A	-1,10329	8,632505	-8,59618	0,000228	0,004334	1,065803
ZNF75D	1,257649	7,24771	8,586064	0,000229	0,004354	1,059084
CERK	1,449658	7,554718	8,576962	0,000231	0,004372	1,053033
NHEJ1	-2,07627	1,038136	-8,57226	0,000231	0,004379	1,049902
IL20RA	4,030001	2,876655	8,567591	0,000232	0,004385	1,046797
PARD6B	1,568064	6,078756	8,564242	0,000233	0,004388	1,044567
NACA2	1,492488	7,491464	8,55988	0,000233	0,00439	1,041661
CCDC112	-2,23952	6,490765	-8,55884	0,000233	0,00439	1,040968
MACROD2	2,512033	4,66079	8,555263	0,000234	0,004394	1,038584
P2RX7	-1,39981	6,060592	-8,54945	0,000235	0,004403	1,034708
TUBA1C	-1,94457	8,560866	-8,54496	0,000235	0,004409	1,03171
PTPRM	1,942642	5,687056	8,534802	0,000237	0,00443	1,024927
CTSA	-2,29791	6,336526	-8,5293	0,000237	0,004439	1,021249
NOL4	2,839028	4,614502	8,521747	0,000238	0,004445	1,016197
ELP2	1,196628	7,838498	8,521276	0,000239	0,004445	1,015882
ZNF503	-2,04674	3,325669	-8,51877	0,000239	0,004445	1,014206
ZNF180	1,241394	6,311621	8,518229	0,000239	0,004445	1,013842
TBXAS1	-4,01447	5,383664	-8,51354	0,00024	0,004452	1,010701
TMEM106A	-1,33989	6,039087	-8,51117	0,00024	0,004452	1,009116
CALD1	2,515203	4,885658	8,504771	0,000241	0,004464	1,004826
SCARNA9	1,251308	9,400744	8,487818	0,000243	0,004499	0,993448
TSHZ2	2,175747	7,604113	8,486493	0,000244	0,004499	0,992558
PAPSS1	-1,50841	7,637677	-8,48516	0,000244	0,004499	0,991664
RPL4	1,238404	10,13055	8,478878	0,000245	0,00451	0,98744
CDKN1A	-1,46619	7,498637	-8,47331	0,000246	0,004512	0,983692
GMPPB	-4,01145	2,534044	-8,47279	0,000246	0,004512	0,983343
CCNT1	1,199599	8,453262	8,471775	0,000246	0,004512	0,982662
COL27A1	2,971185	2,875567	8,469219	0,000246	0,004513	0,980942
CELF4	4,117409	2,587025	8,455089	0,000248	0,004542	0,971423
APAF1	-1,07553	7,327286	-8,45429	0,000248	0,004542	0,970881
PMP22	-4,98252	4,598571	-8,44869	0,000249	0,00455	0,967108
ST6GALNAC	-3,99159	2,524116	-8,44717	0,000249	0,00455	0,966082
NT5E	1,354673	5,21611	8,430905	0,000252	0,004586	0,955096
LRRC72	2,793275	4,055731	8,427897	0,000252	0,004586	0,953062
C11orf1	2,475896	4,926869	8,427557	0,000252	0,004586	0,952832
SEMA3A	1,688737	4,523093	8,42389	0,000253	0,004587	0,950352

PLXDC2	-4,79726	6,47229	-8,42319	0,000253	0,004587	0,949875
RIT1	-1,46652	7,259299	-8,41392	0,000255	0,004603	0,943605
PSAT1	2,197506	4,596038	8,413298	0,000255	0,004603	0,943181
TNNC1	3,064098	1,532049	8,410199	0,000255	0,004605	0,941082
SAMD9L	-1,24087	8,353137	-8,40071	0,000257	0,004626	0,934647
RBFOX1	4,420339	3,071824	8,398742	0,000257	0,004626	0,933313
FBLN5	1,796751	6,901768	8,395731	0,000257	0,004628	0,93127
RYR2	3,259797	3,932195	8,387135	0,000259	0,004647	0,925433
CSMD2	2,387893	3,991386	8,383759	0,000259	0,004649	0,923139
TMEM236	2,721013	4,223411	8,377127	0,00026	0,004649	0,91863
HLF	2,331009	5,052764	8,374734	0,000261	0,004649	0,917002
CYP1A1	4,785025	2,392513	8,372232	0,000261	0,004649	0,915299
TMSB10	-2,11352	10,18479	-8,36779	0,000262	0,004649	0,912275
PRCP	-1,84441	7,45983	-8,36356	0,000262	0,004649	0,909396
MORC4	1,299597	5,957698	8,355912	0,000264	0,004649	0,904183
CHN2	-1	0,5	-8,35522	0,000264	0,004649	0,903713
EMILIN1	-1	0,5	-8,35522	0,000264	0,004649	0,903713
HOXB7	-1	0,5	-8,35522	0,000264	0,004649	0,903713
JMJD7-PLA	-1	0,5	-8,35522	0,000264	0,004649	0,903713
SNORA33	-1	0,5	-8,35522	0,000264	0,004649	0,903713
TTC25	-1	0,5	-8,35522	0,000264	0,004649	0,903713
WDR83	-1	0,5	-8,35522	0,000264	0,004649	0,903713
ARPC5L	1,271697	8,098381	8,354617	0,000264	0,004649	0,9033
CRIM1	-1,78175	7,078164	-8,35329	0,000264	0,004649	0,902398
DAGLA	-3,98181	1,990907	-8,34362	0,000266	0,004671	0,895798
CASP1	-1,75125	8,069045	-8,3329	0,000267	0,004693	0,888475
PDLIM7	-3,52644	1,763219	-8,33182	0,000268	0,004693	0,887735
GULP1	2,732063	5,684218	8,329289	0,000268	0,004694	0,886006
LRRC4	-2,65909	1,329547	-8,31903	0,00027	0,004713	0,878985
APLP2	-1,71624	9,115004	-8,3189	0,00027	0,004713	0,8789
C10orf105	4,05997	2,029985	8,31685	0,00027	0,004713	0,877493
MFSD2A	-3,98485	2,520747	-8,30636	0,000272	0,004737	0,870308
MTUS1	1,942001	4,875749	8,303282	0,000272	0,00474	0,868195
S100A6	-1,91936	9,881106	-8,29923	0,000273	0,004746	0,865416
PTTG1IP	-1,07473	7,994889	-8,29416	0,000274	0,004755	0,861934
ATP6V0A1	-2,69057	5,638734	-8,29184	0,000274	0,004755	0,860343
DUSP23	-4,4481	3,419037	-8,28858	0,000275	0,004755	0,858101
ZNF606	1,502967	4,737426	8,288203	0,000275	0,004755	0,857845
TMPRSS3	1,942346	4,456282	8,264288	0,000279	0,00482	0,841393
SNX12	-1,1272	6,500325	-8,25308	0,000281	0,00484	0,833668
FAM214B	-3,98279	2,519715	-8,25188	0,000281	0,00484	0,832838
KRCC1	1,225624	9,284743	8,251527	0,000281	0,00484	0,832596
TF	3,030717	4,043679	8,248078	0,000282	0,004845	0,830216
EFR3B	5,450309	3,253475	8,243565	0,000283	0,004852	0,827101
AMTN	3,043094	1,854881	8,238987	0,000283	0,00486	0,823939
CCNYL1	-1,80129	6,275143	-8,23461	0,000284	0,004866	0,820912
AATK	-3,27075	3,766148	-8,23304	0,000284	0,004866	0,819831
MTUS2	3,872387	3,131181	8,230615	0,000285	0,004868	0,818152
MEX3B	-2,7664	1,716535	-8,22654	0,000286	0,004874	0,815336
RPS15A	1,291338	9,824776	8,223564	0,000286	0,004877	0,813274
IRAK2	1,505419	4,889173	8,209513	0,000289	0,004913	0,803542
ZNF12	1,240635	8,000488	8,20773	0,000289	0,004913	0,802306

PYGL	-2,58444	5,793991	-8,20467	0,000289	0,004917	0,800183
ACTB	-1,51225	9,804859	-8,19465	0,000291	0,004942	0,793229
GBP1	-1,90382	10,30184	-8,18642	0,000293	0,004956	0,787512
LILRA5	-3,35894	1,679469	-8,1854	0,000293	0,004956	0,786808
RSU1	-1,41019	7,728852	-8,18432	0,000293	0,004956	0,786052
ZNF302	1,259752	7,177261	8,179081	0,000294	0,004966	0,782411
PRUNE2	2,774405	4,820272	8,159522	0,000298	0,005021	0,768791
BCL7C	-3,43077	2,577041	-8,15114	0,000299	0,005037	0,762942
KIF13A	-1,45247	7,238317	-8,15041	0,000299	0,005037	0,762439
CABLES2	-2,38914	3,163533	-8,14496	0,0003	0,005044	0,758633
CCR5	-1,68857	6,915016	-8,1445	0,0003	0,005044	0,758306
LRAT	3,879365	4,329658	8,142217	0,000301	0,005045	0,756715
FAM169A	1,489761	6,653061	8,131154	0,000303	0,005074	0,748982
SCN1A	3,114044	4,708798	8,120525	0,000305	0,005102	0,741544
EIF3H	0,997166	9,209291	8,115331	0,000306	0,005112	0,737906
ATP6AP2	-1,14598	9,600913	-8,10586	0,000308	0,005137	0,731263
MCM10	5,316594	3,765606	8,103279	0,000308	0,005139	0,729456
APBA2	1,640571	6,693014	8,095352	0,00031	0,005155	0,723891
SMAD3	1,090267	8,622446	8,092948	0,00031	0,005155	0,722203
ANXA4	-1,91693	6,865354	-8,09263	0,00031	0,005155	0,721978
C6orf48	1,29478	8,527217	8,090868	0,000311	0,005155	0,720741
PPP1R3F	2,66214	5,792485	8,084387	0,000312	0,005166	0,716185
GOT2	1,142913	6,678683	8,079337	0,000313	0,005166	0,712634
TLCD2	2,108433	3,78744	8,077318	0,000313	0,005166	0,711213
FLRT2	2,271761	5,637156	8,076727	0,000313	0,005166	0,710797
FEZ2	-1,31028	6,520646	-8,07326	0,000314	0,005166	0,708359
OR4K17	2,610997	5,631258	8,068335	0,000315	0,005166	0,704889
AVPI1	-2,83062	1,415309	-8,06816	0,000315	0,005166	0,704762
PLK2	-2,83062	1,415309	-8,06816	0,000315	0,005166	0,704762
FRMD6	-2,83062	1,415309	-8,06816	0,000315	0,005166	0,704762
UBAP2	1,079623	8,158893	8,067931	0,000315	0,005166	0,704604
COX4I1	1,106336	9,744014	8,065523	0,000316	0,005166	0,702907
NOP10	-1,23508	7,564439	-8,06367	0,000316	0,005166	0,701603
ATP2A2	-1,20109	7,461572	-8,05902	0,000317	0,005166	0,698321
TCP10L2	4,167279	2,08364	8,058561	0,000317	0,005166	0,697999
CALM2	-1,29305	10,09376	-8,05853	0,000317	0,005166	0,697974
TMEM204	1,162745	8,101216	8,05791	0,000317	0,005166	0,69754
MTRNR2L8	1,966178	5,034695	8,054109	0,000318	0,005172	0,694859
DOCK4	-3,07657	6,828309	-8,05235	0,000318	0,005172	0,693614
MBD3	1,756227	5,676089	8,049608	0,000319	0,005175	0,691682
BEX2	1,250952	6,908898	8,041964	0,00032	0,005191	0,686283
ZNF101	1,143064	8,429477	8,040453	0,000321	0,005191	0,685215
ALDH4A1	-2,94324	1,47162	-8,03817	0,000321	0,005191	0,6836
ZC3H6	1,140974	9,595559	8,037663	0,000321	0,005191	0,683243
SUSD1	-1,942	4,347428	-8,03375	0,000322	0,005197	0,680479
ZNF583	1,603178	5,258121	8,031126	0,000323	0,0052	0,67862
OVCH1	4,251861	2,654251	8,022384	0,000324	0,005223	0,672432
HCG23	2,652733	4,018638	8,017355	0,000325	0,005234	0,668869
ANXA5	-2,72095	7,795107	-8,01279	0,000326	0,005243	0,665633
FERMT2	4,049933	2,886621	8,008247	0,000327	0,005246	0,662412
LGALS4	3,150404	1,575202	8,006352	0,000328	0,005246	0,661068
FFAR1	3,150404	1,575202	8,006352	0,000328	0,005246	0,661068

DNM3	2,012727	6,145648	8,002117	0,000329	0,005255	0,658062
GLCE	-3,89257	2,474607	-7,99925	0,000329	0,005258	0,656025
AACSP1	3,099736	1,549868	7,994602	0,00033	0,005259	0,652725
HSD17B1	3,099736	1,549868	7,994602	0,00033	0,005259	0,652725
ETV1	2,270751	5,355077	7,99039	0,000331	0,005259	0,649732
SOCS6	-4,31408	3,15704	-7,98808	0,000332	0,005259	0,648091
LRFN1	2,465764	4,842789	7,987805	0,000332	0,005259	0,647894
LACTB	-1,36621	8,58561	-7,98709	0,000332	0,005259	0,64739
CACNB4	2,477239	5,303949	7,986656	0,000332	0,005259	0,647078
SCARNA7	1,888962	5,44389	7,976111	0,000334	0,005281	0,639574
CXXC4	2,87895	5,470394	7,975521	0,000334	0,005281	0,639154
ABCA11P	3,354032	3,261979	7,974	0,000335	0,005281	0,638071
ARPC1B	-1,23291	8,440637	-7,97291	0,000335	0,005281	0,637295
FAH	-3,91072	2,483682	-7,97001	0,000335	0,005285	0,635232
PLRG1	1,02889	7,656989	7,966525	0,000336	0,005285	0,632745
GCA	-2,04373	6,788338	-7,96382	0,000337	0,005285	0,630818
ARHGEF26-	3,779785	3,946534	7,95952	0,000338	0,005285	0,62775
ATP1B3	-1,54598	8,639203	-7,95727	0,000338	0,005285	0,626143
CCL20	1,499205	5,425571	7,954697	0,000339	0,005285	0,624308
VAMP5	-2,99706	4,272504	-7,95354	0,000339	0,005285	0,623483
ZNF793	1,69335	4,635449	7,952304	0,000339	0,005285	0,6226
MYLK	3,519656	3,8906	7,951817	0,000339	0,005285	0,622252
RPL10	1,221142	9,442297	7,9515	0,000339	0,005285	0,622027
ERN1	1,099601	8,919249	7,949955	0,00034	0,005285	0,620923
LYRM1	1,428039	5,998489	7,949791	0,00034	0,005285	0,620806
ALOX12P2	3,150404	2,241869	7,94553	0,000341	0,005285	0,617762
ANKRD34A	3,150404	2,241869	7,94553	0,000341	0,005285	0,617762
ADAP1	-2,16851	4,183991	-7,94519	0,000341	0,005285	0,617517
RAB38	-2,59488	1,630772	-7,94403	0,000341	0,005285	0,61669
AHNAK2	3,376428	1,688214	7,940449	0,000342	0,005287	0,614131
NCF4	-1,78847	6,67903	-7,94001	0,000342	0,005287	0,613816
CERS6	-1,20022	7,21151	-7,92963	0,000344	0,005315	0,60639
ST8SIA4	-1,00449	7,82261	-7,92825	0,000344	0,005315	0,605402
ZNF419	1,411001	5,847119	7,916276	0,000347	0,00535	0,596825
SDCBP2	3,119414	3,797789	7,914658	0,000347	0,00535	0,595664
DNMT1	-1,0055	8,797193	-7,91276	0,000348	0,005351	0,594302
TRPM1	3,298273	1,98247	7,905915	0,000349	0,005366	0,589392
TIMP1	-1,95319	5,476961	-7,90483	0,00035	0,005366	0,588614
BLMH	1,33229	6,843678	7,899065	0,000351	0,00538	0,584473
COL4A3	1,966668	4,542574	7,896364	0,000352	0,005384	0,582533
JAK2	-2,08321	7,433178	-7,88883	0,000353	0,005404	0,577114
ZNF37A	1,373999	7,521932	7,886507	0,000354	0,005406	0,575445
ZC3H4	1,345369	8,220744	7,883171	0,000355	0,005412	0,573044
NFKB2	1,47594	6,372645	7,872939	0,000357	0,005437	0,565676
DOK3	-1,48635	5,633763	-7,87265	0,000357	0,005437	0,565466
UHRF1BP1	-1,04555	6,46017	-7,86948	0,000358	0,005442	0,563182
CTRC	5,190268	2,595134	7,864602	0,000359	0,005452	0,559666
SCARA5	3,043094	1,521547	7,863275	0,000359	0,005452	0,558709
SEMA4A	-4,04561	4,022806	-7,85085	0,000362	0,005486	0,549736
SLC35A2	2,386565	6,791074	7,850208	0,000362	0,005486	0,549276
TK2	-2,03151	4,241659	-7,84418	0,000364	0,005501	0,54492
TAF1D	1,004456	9,34608	7,842629	0,000364	0,005501	0,543797

PHACTR1	1,108524	6,475471	7,832146	0,000366	0,005532	0,536212
GPM6B	2,478518	4,09334	7,830367	0,000367	0,005532	0,534924
CPVL	-5,59503	5,540453	-7,82913	0,000367	0,005532	0,534032
PLCXD3	2,725882	4,623394	7,814843	0,000371	0,005572	0,523672
LRP1	-4,6183	5,213899	-7,81469	0,000371	0,005572	0,523561
EIF3E	1,022268	8,497684	7,809973	0,000372	0,005574	0,520138
DCLK3	5,142612	2,571306	7,809967	0,000372	0,005574	0,520134
EPSTI1	-1,4775	8,438938	-7,80909	0,000372	0,005574	0,519501
KRT1	1,971849	4,418994	7,804944	0,000373	0,005583	0,516487
PDSS1	-4,18518	3,287579	-7,80032	0,000374	0,005593	0,513131
SNORD46	3,478904	1,739452	7,798975	0,000374	0,005593	0,51215
CD36	-4,96042	6,756784	-7,79209	0,000376	0,005612	0,507147
EFCAB2	1,542916	3,633112	7,788867	0,000377	0,005613	0,5048
PDIA3	-1,08465	8,583147	-7,78803	0,000377	0,005613	0,50419
TNS1	-3,34813	2,53572	-7,78692	0,000377	0,005613	0,50338
KCTD16	2,565441	5,35416	7,783933	0,000378	0,005618	0,501208
PRKCH	1,128513	9,128406	7,76786	0,000382	0,005662	0,489495
ZNF766	1,077636	7,325828	7,767545	0,000382	0,005662	0,489264
HOTAIRM1	-1,33088	5,137221	-7,76709	0,000382	0,005662	0,488934
MAP9	1,33792	6,070993	7,763182	0,000383	0,005671	0,486082
PSPC1	1,008695	7,422594	7,757788	0,000384	0,005679	0,482143
PHF19	1,110325	7,031375	7,757759	0,000384	0,005679	0,482122
JPX	1,587835	7,642152	7,753275	0,000386	0,00569	0,478846
TUT1	1,479512	3,611326	7,747746	0,000387	0,005704	0,474805
EBF1	1,260855	6,82077	7,745142	0,000388	0,005708	0,472901
CLK3	1,2671	7,0597	7,730443	0,000391	0,005746	0,46214
PLXNA4	0,958374	5,043683	7,729909	0,000392	0,005746	0,46175
CCR7	1,655091	8,197055	7,727718	0,000392	0,005746	0,460143
CTNNA3	2,709761	1,354881	7,724113	0,000393	0,005746	0,457501
IFITM10	2,709761	1,354881	7,724113	0,000393	0,005746	0,457501
ANKRD30B	2,709761	2,354881	7,724113	0,000393	0,005746	0,457501
SLC25A24	-1,9898	7,372937	-7,72286	0,000393	0,005746	0,456581
MYOM1	2,715068	5,453246	7,722366	0,000393	0,005746	0,45622
RRN3	1,005599	7,595033	7,71509	0,000395	0,005761	0,450882
ITGA6	1,037495	8,178161	7,712672	0,000396	0,005761	0,449106
SUCNR1	-1,64315	5,870061	-7,71247	0,000396	0,005761	0,448961
USP44	1,705823	5,70316	7,711926	0,000396	0,005761	0,448559
PRDM9	4,374815	2,187407	7,703612	0,000398	0,005787	0,442451
SNX8	-2,52257	4,587044	-7,70131	0,000399	0,005789	0,440758
ZC3H12D	1,352489	7,194301	7,695158	0,000401	0,0058	0,436235
FAM83D	5,136464	3,763219	7,69451	0,000401	0,0058	0,435758
WDR60	1,239213	8,342111	7,693961	0,000401	0,0058	0,435354
CA11	2,152501	5,407701	7,691019	0,000402	0,005804	0,433189
PELP1	1,021161	6,776068	7,689709	0,000402	0,005804	0,432224
PCDH17	3,495679	3,38347	7,685581	0,000403	0,005814	0,429185
CMTM8	1,12218	6,400242	7,677513	0,000405	0,005837	0,42324
KIAA0513	-1,47066	5,89393	-7,67449	0,000406	0,005837	0,42101
SLC23A2	-1,01388	7,621754	-7,67385	0,000406	0,005837	0,420537
TIGD1	1,702066	3,84346	7,673377	0,000406	0,005837	0,420189
AADAT	3,276574	1,638287	7,671336	0,000407	0,005839	0,418684
PTPN13	1,97916	4,648673	7,668689	0,000408	0,005843	0,416731
TTL	-1,54107	6,687189	-7,66299	0,000409	0,005859	0,412525

RPL23A	1,365279	9,456792	7,656302	0,000411	0,005878	0,407582
ZBTB20-AS1	3,718273	2,720791	7,655004	0,000411	0,005878	0,406623
VPS37C	-3,33074	4,829323	-7,65353	0,000412	0,005878	0,40553
LAMA1	4,677521	2,672094	7,649495	0,000413	0,005885	0,402549
EPDR1	-2,16395	1,081976	-7,64408	0,000414	0,005885	0,398541
ZNF628	-2,16395	1,081976	-7,64408	0,000414	0,005885	0,398541
KHDRBS2	-2,16395	1,081976	-7,64408	0,000414	0,005885	0,398541
TNNT1	-2,16395	1,081976	-7,64408	0,000414	0,005885	0,398541
RPSA	1,243567	7,891533	7,641809	0,000415	0,005886	0,396862
SEC24D	-1,26492	7,094155	-7,63657	0,000416	0,005886	0,392982
DNAH11	2,667917	2,528946	7,636542	0,000416	0,005886	0,392961
GABPB1	1,634533	7,262394	7,636239	0,000416	0,005886	0,392736
OSCAR	-5,1823	3,365125	-7,6362	0,000416	0,005886	0,392709
IGSF10	3,934576	4,02393	7,630911	0,000418	0,0059	0,388788
PGM3	-1,03783	6,272667	-7,62729	0,000419	0,005907	0,386102
BICD1	1,642578	6,71241	7,625405	0,000419	0,005907	0,384705
RPL31P11	3,973664	4,029926	7,624789	0,00042	0,005907	0,384248
RUNX1T1	2,968964	5,710388	7,62175	0,00042	0,005913	0,381993
LINC00467	2,005691	5,060738	7,611218	0,000423	0,005948	0,374172
SNORA12	1,668825	6,897023	7,607372	0,000424	0,00595	0,371314
RPL32P3	1,680976	5,59662	7,605098	0,000425	0,00595	0,369623
HOOK3	-0,93024	8,571632	-7,60344	0,000426	0,00595	0,36839
TMEM232	4,800649	2,928645	7,602761	0,000426	0,00595	0,367885
GIPR	-2,93578	1,801226	-7,60098	0,000426	0,00595	0,366557
SNHG9	1,228702	7,325853	7,596699	0,000427	0,00595	0,363375
SH3RF3	2,47293	3,067083	7,596496	0,000427	0,00595	0,363223
SLC5A6	-2,56483	3,413186	-7,59588	0,000428	0,00595	0,362762
OR7D2	4,400708	2,867021	7,594386	0,000428	0,00595	0,361652
S100A11	-2,72274	7,439294	-7,5942	0,000428	0,00595	0,361513
COMMD10	-2,45845	5,590384	-7,5942	0,000428	0,00595	0,361512
ZEB1	1,191624	8,353484	7,586289	0,00043	0,00597	0,355621
USP6	4,574269	2,287135	7,585454	0,000431	0,00597	0,354999
KIAA0895L	-3,49393	2,608621	-7,58484	0,000431	0,00597	0,354539
GCLC	-1,73067	6,846206	-7,57868	0,000433	0,005984	0,349945
HDAC5	-2,33364	3,607462	-7,57841	0,000433	0,005984	0,349749
NAGK	-0,98732	7,61595	-7,57146	0,000435	0,005998	0,344558
RPL14	0,984252	10,36126	7,571294	0,000435	0,005998	0,344436
MYPN	2,978879	1,48944	7,570444	0,000435	0,005998	0,343802
CAMKMT	1,502584	4,581909	7,568917	0,000435	0,005998	0,342662
OSBPL10	2,007955	6,049454	7,561529	0,000438	0,006001	0,337142
SNHG7	1,217311	7,628638	7,559942	0,000438	0,006001	0,335956
OR11G2	3,831952	3,110963	7,559798	0,000438	0,006001	0,335848
CCDC7	1,490548	7,972858	7,558332	0,000438	0,006001	0,334752
CLDN23	-1,83062	0,915309	-7,55803	0,000439	0,006001	0,334523
ARVCF	-1,83062	0,915309	-7,55803	0,000439	0,006001	0,334523
KCNG1	-1,83062	0,915309	-7,55803	0,000439	0,006001	0,334523
XRCC1	-2,23348	2,645061	-7,55559	0,000439	0,006005	0,332703
PPP1R16A	-2,46411	1,565386	-7,54958	0,000441	0,006023	0,328208
DDX56	1,166969	5,79053	7,545884	0,000442	0,006029	0,325438
PGM2	-2,59511	5,109792	-7,54504	0,000442	0,006029	0,324806
CENPL	1,574328	5,329447	7,54214	0,000443	0,006035	0,322634
PTGFR	2,668683	5,34914	7,53405	0,000446	0,006062	0,31657

OR8D4	2,461838	4,774038	7,531329	0,000446	0,006067	0,314529
NPTN	-1,63947	8,753169	-7,51915	0,00045	0,006111	0,305387
CYFIP2	1,153764	9,035731	7,515902	0,000451	0,006118	0,302947
LINC00304	4,163951	2,081976	7,51249	0,000452	0,006122	0,300382
RP2	-1,18019	7,404342	-7,51227	0,000452	0,006122	0,300217
JUN	-1,32341	8,44971	-7,4993	0,000456	0,006169	0,290461
ERI2	-2,2674	3,348318	-7,47975	0,000462	0,006244	0,275723
VMO1	-3,07627	1,538136	-7,47846	0,000463	0,006244	0,274743
SH2B3	-1,46744	6,504207	-7,47456	0,000464	0,006252	0,271802
RRP8	1,16939	6,733014	7,471295	0,000465	0,006252	0,269335
AMN	3,213666	3,996808	7,470616	0,000465	0,006252	0,268822
RPS18	1,431201	10,4413	7,470176	0,000465	0,006252	0,268489
PM20D2	1,765487	7,64993	7,469442	0,000465	0,006252	0,267935
SPATA13	1,034503	7,519936	7,467723	0,000466	0,006253	0,266636
KCNJ11	-2,05664	1,028321	-7,45316	0,00047	0,006295	0,255618
MYO15B	-2,05664	1,028321	-7,45316	0,00047	0,006295	0,255618
SOX8	-2,05664	1,028321	-7,45316	0,00047	0,006295	0,255618
ZC3H7A	0,916606	9,068871	7,452273	0,000471	0,006295	0,254947
SPRED1	-3,3054	5,445105	-7,4489	0,000472	0,006303	0,252396
CD38	-1,28323	5,555647	-7,44542	0,000473	0,006312	0,249754
DUOX2	2,933116	3,856533	7,444166	0,000473	0,006312	0,248805
NFIC	-1,07243	7,663037	-7,4358	0,000476	0,006339	0,242458
CEP70	1,129832	5,352322	7,43503	0,000476	0,006339	0,241877
CYBA	-2,43626	5,048748	-7,43226	0,000477	0,006344	0,239772
CHN1	1,449467	3,643029	7,431084	0,000478	0,006344	0,238882
CELF5	6,387722	4,055515	7,423362	0,00048	0,006371	0,233017
GPD2	-1,91655	6,630735	-7,42124	0,000481	0,006372	0,231403
RPL36	0,971149	10,53513	7,420395	0,000481	0,006372	0,230762
AP1M1	1,740519	7,423831	7,417964	0,000482	0,006376	0,228914
PATL2	1,634011	7,023299	7,413676	0,000483	0,006389	0,225653
SLC16A4	3,670968	3,60946	7,404535	0,000486	0,006422	0,218695
RAG1	4,793307	2,396653	7,403241	0,000487	0,006422	0,21771
MTTP	3,649034	3,460147	7,400411	0,000488	0,006428	0,215554
CDKL3	2,470237	3,399069	7,398175	0,000488	0,006432	0,21385
TAS2R4	2,641928	5,940615	7,387795	0,000492	0,006471	0,205933
RPL6	1,432586	8,010778	7,377686	0,000495	0,00651	0,198215
LUZP2	3,193315	3,232288	7,373631	0,000496	0,006522	0,195116
ABI2	0,984747	7,257621	7,362359	0,0005	0,006561	0,186494
BHLHE41	-2,73237	6,910746	-7,36211	0,0005	0,006561	0,186306
JUND	-1,28426	8,623961	-7,35867	0,000502	0,00657	0,18367
UBA52	0,91807	10,04779	7,345279	0,000506	0,006624	0,173406
ATP8A2	1,607469	3,796161	7,342245	0,000507	0,006628	0,171078
METTL6	1,735484	5,534291	7,340871	0,000508	0,006628	0,170025
RPS6KA6	1,950325	3,879911	7,340286	0,000508	0,006628	0,169576
COMMD8	-1,52546	6,692333	-7,33908	0,000508	0,006628	0,16865
AKR1A1	-1,37225	7,461502	-7,33731	0,000509	0,00663	0,167287
IQCB1	1,229441	6,633494	7,332972	0,00051	0,006641	0,16396
FAP	3,70823	3,930388	7,332157	0,000511	0,006641	0,163334
STOX2	2,324271	4,251064	7,329416	0,000512	0,006647	0,161227
MZT2A	1,423055	6,132421	7,32662	0,000513	0,006647	0,159079
RPS7	1,537745	8,448122	7,326365	0,000513	0,006647	0,158882
B3GNT9	2,082009	3,676635	7,325542	0,000513	0,006647	0,158249

FNIP2	-1,4394	6,973187	-7,32155	0,000514	0,006659	0,155183
HLA-DRB6	-3,42625	4,594413	-7,31849	0,000515	0,006667	0,152829
HABP4	1,157874	7,053712	7,306279	0,00052	0,006716	0,143422
KLHL21	1,016489	7,649896	7,304616	0,00052	0,006718	0,14214
PI4K2A	-1,38567	5,223577	-7,30293	0,000521	0,00672	0,140842
S100A4	-1,71321	8,844682	-7,29274	0,000525	0,00675	0,132977
BANK1	1,144462	7,697035	7,292189	0,000525	0,00675	0,132555
WDFY1	-1,45372	7,939646	-7,29178	0,000525	0,00675	0,132238
RPS19	0,924633	11,24553	7,29092	0,000525	0,00675	0,131575
NAP1L4	1,111368	9,4579	7,281345	0,000529	0,006789	0,124178
MYO15A	4,996169	3,359739	7,279909	0,000529	0,006789	0,123069
UTY	1,350854	6,796259	7,274126	0,000531	0,006808	0,118596
TDRD1	3,937927	1,968964	7,273358	0,000532	0,006808	0,118001
DSC2	-3,96494	3,177457	-7,26846	0,000534	0,006817	0,114208
FHL1	-2,25163	1,125815	-7,26843	0,000534	0,006817	0,11419
GPR174	0,909353	7,261313	7,267515	0,000534	0,006817	0,11348
GLIPR1	-1,44735	8,604303	-7,25992	0,000537	0,006846	0,107593
C15orf53	2,678215	5,226367	7,248871	0,000541	0,006892	0,099028
GTPBP10	1,178324	6,351973	7,244553	0,000542	0,006893	0,095676
ZNF557	1,312498	6,610197	7,244159	0,000543	0,006893	0,09537
RPL24	1,013094	9,822817	7,243548	0,000543	0,006893	0,094896
PITPNC1	1,249328	7,447458	7,241018	0,000544	0,006893	0,092931
COMT	-1,47036	6,908893	-7,24072	0,000544	0,006893	0,092696
FCGR2C	-4,15529	4,649058	-7,23914	0,000544	0,006893	0,09147
ZNF37BP	1,455725	7,047427	7,238104	0,000545	0,006893	0,090667
DHCR24	-3,15178	2,437542	-7,2373	0,000545	0,006893	0,090044
ACTA2	2,178676	4,064275	7,237035	0,000545	0,006893	0,089836
PEX11G	3,704725	2,380684	7,233653	0,000546	0,006903	0,087208
ADTRP	1,452621	6,102456	7,222488	0,000551	0,00694	0,078522
NINJ1	-1,43157	7,130474	-7,22075	0,000551	0,00694	0,077168
APOL1	-1,5826	6,625619	-7,22069	0,000551	0,00694	0,07712
RPS17	1,014567	9,792211	7,22029	0,000552	0,00694	0,076811
ARHGEF11	-2,87092	5,402541	-7,21941	0,000552	0,00694	0,076127
ISG15	-1,11326	4,991601	-7,21518	0,000553	0,006947	0,072833
COL4A4	-2,74294	1,37147	-7,21422	0,000554	0,006947	0,072085
KIF3C	-2,74294	1,37147	-7,21422	0,000554	0,006947	0,072085
CNR1	2,32576	1,829547	7,211025	0,000555	0,006949	0,069592
FAM81B	2,32576	1,829547	7,211025	0,000555	0,006949	0,069592
LCMT2	1,787288	5,414391	7,209829	0,000556	0,006949	0,068659
CLIC4	-1,26975	6,951183	-7,1978	0,00056	0,007001	0,059274
FARP1	2,689414	4,898633	7,195851	0,000561	0,007005	0,057751
RHEBL1	-3,09513	2,409221	-7,18641	0,000565	0,007042	0,050373
TGM4	3,376428	1,688214	7,184617	0,000565	0,007042	0,048972
RPS9	1,16092	9,725615	7,183988	0,000566	0,007042	0,048479
CREBL2	-1,1416	8,522581	-7,18311	0,000566	0,007042	0,047789
THBD	-2,87645	1,438226	-7,17854	0,000568	0,007058	0,044216
CNKSR3	2,700571	4,060047	7,172832	0,00057	0,00708	0,039748
ERV3-1	1,229342	5,132067	7,165951	0,000573	0,007108	0,034356
SLC44A2	1,093322	6,179068	7,163433	0,000574	0,007114	0,032382
HIP1	-2,07239	5,348407	-7,15759	0,000576	0,007137	0,027797
DOK6	3,05968	3,8556	7,155067	0,000577	0,007138	0,025819
STAT2	-0,93725	7,879145	-7,15482	0,000577	0,007138	0,025622

FCGR3A	-1,80638	6,917363	-7,1532	0,000578	0,00714	0,024356
RDX	-1,04329	8,35823	-7,15059	0,000579	0,007147	0,022301
ATOX1	-3,02433	6,252844	-7,14334	0,000582	0,007176	0,016608
CADPS	3,416766	3,236704	7,142228	0,000582	0,007176	0,015734
SLC1A4	1,07642	6,37813	7,140799	0,000583	0,007177	0,014611
PSME2	-1,30713	8,534456	-7,13654	0,000585	0,007188	0,011259
DSCAM	3,694493	2,18058	7,136149	0,000585	0,007188	0,010953
DOCK7	1,828186	6,337038	7,132396	0,000586	0,007198	0,008
UBE2D4	-3,69759	2,377114	-7,13152	0,000587	0,007198	0,007313
HNRNPA3	1,164543	9,83306	7,129401	0,000588	0,007203	0,005642
VIL1	3,937927	2,302297	7,124124	0,00059	0,007215	0,001486
ZNF843	3,937927	2,302297	7,124124	0,00059	0,007215	0,001486
IK	0,953177	9,477999	7,123355	0,00059	0,007215	0,00088
TMEM144	-3,62422	2,812112	-7,11414	0,000594	0,007241	-0,00638
FUT8	1,534426	6,274413	7,113723	0,000594	0,007241	-0,00671
RPP14	0,962734	7,245078	7,113437	0,000594	0,007241	-0,00694
PARPBP	-2,97642	2,349864	-7,11223	0,000595	0,007241	-0,0079
RTN3	-2,47792	7,13744	-7,11195	0,000595	0,007241	-0,00812
RGS17	3,355418	5,110778	7,108642	0,000596	0,007252	-0,01072
PPP1R16B	1,419158	7,757435	7,106747	0,000597	0,007253	-0,01222
TM9SF2	-0,88102	9,047428	-7,10592	0,000597	0,007253	-0,01287
RPL7A	0,866574	10,26016	7,103382	0,000598	0,00726	-0,01488
COMMD6	0,910324	9,004103	7,100404	0,0006	0,007269	-0,01723
VAPB	1,229657	7,207429	7,098499	0,0006	0,007272	-0,01874
RAB13	-3,69902	4,785296	-7,09692	0,000601	0,007272	-0,01998
TRIB1	-1,35802	5,632543	-7,09615	0,000601	0,007272	-0,02059
ISOC2	-3,34325	2,199945	-7,08858	0,000605	0,007304	-0,02658
ANKRD31	3,436979	3,654275	7,087112	0,000605	0,007306	-0,02774
ZNF385D	2,308788	5,154277	7,08396	0,000607	0,007315	-0,03024
TTY15	1,061392	6,527416	7,082539	0,000607	0,007315	-0,03136
XKR6	1,491726	4,915788	7,081733	0,000608	0,007315	-0,032
CEP57L1	-1,51345	4,154156	-7,07944	0,000608	0,00732	-0,03382
GAA	-3,98998	5,257626	-7,07499	0,00061	0,007336	-0,03734
VASP	-1,06993	8,536916	-7,07399	0,000611	0,007336	-0,03813
GNMT	2,87157	1,769118	7,071303	0,000612	0,007343	-0,04027
BTF3	0,92728	9,408559	7,067821	0,000613	0,007355	-0,04303
TSR2	1,004941	6,737152	7,063572	0,000615	0,007366	-0,0464
ERCC6L	3,758708	1,879354	7,063053	0,000616	0,007366	-0,04681
SLC36A1	-2,99871	5,62055	-7,06209	0,000616	0,007366	-0,04758
STIL	3,397431	4,098606	7,060193	0,000617	0,00737	-0,04908
DROSHA	0,910054	7,327925	7,057427	0,000618	0,007378	-0,05128
RPS10	1,451576	8,507688	7,055124	0,000619	0,007383	-0,05311
KRT222	2,714418	4,971326	7,054135	0,000619	0,007383	-0,05389
MMP3	3,54534	2,634324	7,05277	0,00062	0,007384	-0,05498
SLC16A10	1,293225	5,169265	7,051186	0,000621	0,007386	-0,05624
RGSL1	2,547952	1,273976	7,047579	0,000622	0,007386	-0,05911
KHK	-2,54795	1,273976	-7,04758	0,000622	0,007386	-0,05911
RUFY4	-2,54795	1,273976	-7,04758	0,000622	0,007386	-0,05911
KLHL28	1,148739	8,017776	7,044749	0,000624	0,007391	-0,06136
NPC1	0,968201	7,017385	7,044141	0,000624	0,007391	-0,06184
GREM2	2,285549	5,215023	7,042286	0,000625	0,007395	-0,06332
SNX18	-1,07328	7,58371	-7,03992	0,000626	0,007401	-0,0652

IKZF3	0,902282	9,363112	7,03844	0,000626	0,007403	-0,06638
DUSP16	0,890844	9,414299	7,035804	0,000628	0,007404	-0,06848
GAPT	-2,92965	5,515797	-7,03572	0,000628	0,007404	-0,06855
OSBPL11	-1,1499	7,59128	-7,03256	0,000629	0,007413	-0,07106
SKAP2	-1,03938	8,66629	-7,03137	0,000629	0,007413	-0,07201
ADCY7	-1,03007	8,836082	-7,03057	0,00063	0,007413	-0,07265
AGMO	2,562517	4,024198	7,02346	0,000633	0,007435	-0,07832
XIST	3,464761	3,260702	7,022948	0,000633	0,007435	-0,07872
TOMM7	0,925253	10,85359	7,022889	0,000633	0,007435	-0,07877
ZNF790	1,613681	4,480963	7,021702	0,000634	0,007435	-0,07972
ZNRF2	-1,05541	7,419645	-7,01999	0,000635	0,007438	-0,08108
NADK	-1,68079	4,237827	-7,00943	0,000639	0,007487	-0,08952
CXCR6	2,207042	5,225628	7,006787	0,000641	0,007495	-0,09163
FAM83F	5,743398	3,645675	7,000659	0,000643	0,007519	-0,09653
SART1	1,460309	5,654534	6,997945	0,000645	0,007519	-0,0987
DICER1	-0,94802	9,047295	-6,99786	0,000645	0,007519	-0,09877
ZNF702P	-1,24651	3,615683	-6,99768	0,000645	0,007519	-0,09891
MPZ	3,295656	3,176149	6,996139	0,000645	0,007521	-0,10015
WDR78	3,38765	4,214573	6,993837	0,000646	0,007527	-0,10199
STK39	0,995905	6,741915	6,991081	0,000648	0,007532	-0,10419
CYB5R4	-0,94318	7,624618	-6,99064	0,000648	0,007532	-0,10455
SLC38A11	1,984166	3,961047	6,988576	0,000649	0,007537	-0,1062
ATP6V1D	-1,27465	6,496288	-6,98354	0,000651	0,007542	-0,11024
ZBTB2	1,011202	7,549411	6,983416	0,000651	0,007542	-0,11034
HSP90B1	-1,00142	10,23217	-6,98311	0,000651	0,007542	-0,11058
KPNA5	0,996368	8,55059	6,981988	0,000652	0,007542	-0,11148
PLXNB2	-4,82042	3,184188	-6,98017	0,000653	0,007542	-0,11294
ZADH2	1,090695	7,590807	6,980112	0,000653	0,007542	-0,11299
IMMP2L	1,504198	5,631785	6,979459	0,000653	0,007542	-0,11351
IRAK1BP1	1,580739	4,570319	6,977622	0,000654	0,007546	-0,11498
WDFY3	-2,40334	5,527191	-6,96771	0,000659	0,007588	-0,12294
COL11A2	4,451692	2,559179	6,966895	0,000659	0,007588	-0,12359
ZNF573	1,146822	6,229153	6,9664	0,000659	0,007588	-0,12399
HOXC6	2,801253	3,174602	6,965337	0,00066	0,007588	-0,12484
EEF1A1	1,133528	7,078664	6,964054	0,00066	0,007588	-0,12587
A2M	-3,63563	2,151148	-6,96248	0,000661	0,007591	-0,12714
KRBA2	1,955416	3,280005	6,959281	0,000663	0,007597	-0,12971
PRKG1	3,432602	4,471896	6,958985	0,000663	0,007597	-0,12995
RRBP1	-1,30336	6,810171	-6,9553	0,000664	0,007607	-0,13291
DNASE1	1,543419	6,941624	6,954973	0,000665	0,007607	-0,13318
TNFSF4	1,575595	4,197404	6,953849	0,000665	0,007607	-0,13408
IRAK1	-1,06493	7,148679	-6,94725	0,000668	0,007634	-0,13939
DNHD1	2,607299	5,593771	6,94665	0,000669	0,007634	-0,13987
ASAP1	-1,00186	8,866133	-6,94188	0,000671	0,007652	-0,14371
MIA-RAB4B	-3,43876	1,71938	-6,9411	0,000671	0,007652	-0,14434
LINC00511	2,540713	4,262783	6,937929	0,000673	0,007663	-0,1469
SIL1	-1,30673	4,979781	-6,93101	0,000676	0,00769	-0,15248
DNAH17	5,385256	2,692628	6,930259	0,000676	0,00769	-0,15309
NAALAD2	2,674123	3,777704	6,929583	0,000677	0,00769	-0,15363
DNAJB11	-0,96478	8,110387	-6,92827	0,000677	0,007691	-0,15469
ATF5	-2,34199	6,394379	-6,92337	0,00068	0,007712	-0,15865
MAP3K4	0,957967	6,756542	6,920486	0,000681	0,007722	-0,16098

GIMAP8	1,222927	7,962556	6,91436	0,000684	0,007749	-0,16593
NIPSNAP3A	-1,10518	5,936896	-6,91332	0,000685	0,007749	-0,16677
ARPC5	-1,00735	9,860325	-6,91024	0,000686	0,007758	-0,16926
SLC6A20	3,243396	2,150019	6,9095	0,000687	0,007758	-0,16986
KLRB1	0,916635	8,37024	6,908275	0,000687	0,007759	-0,17085
RHOA	-3,00832	5,19554	-6,90688	0,000688	0,00776	-0,17197
SPAG16	1,634635	6,045275	6,903927	0,000689	0,00777	-0,17437
ITGA10	2,33592	4,072709	6,893978	0,000694	0,00782	-0,18243
ENPP2	-2,16514	4,020496	-6,89005	0,000696	0,007836	-0,18561
IKZF1	0,925485	10,35097	6,883319	0,0007	0,007868	-0,19107
RNPEP	-1,39311	5,78235	-6,87658	0,000703	0,0079	-0,19655
ARHGEF9	1,79325	5,618889	6,87397	0,000704	0,007908	-0,19866
NDRG2	-2,08159	2,569114	-6,85988	0,000712	0,007983	-0,21012
ZNRD1	1,181978	6,758344	6,857665	0,000713	0,007989	-0,21192
NAGPA	-1,07439	5,617062	-6,85477	0,000714	0,008	-0,21428
TMEM231	4,198419	3,206519	6,853444	0,000715	0,008001	-0,21536
TIAM2	2,839638	5,153043	6,845594	0,000719	0,008034	-0,22176
RPL8	1,046676	10,49223	6,845507	0,000719	0,008034	-0,22183
OGFRL1	-2,62417	6,346514	-6,84283	0,00072	0,008043	-0,22401
SPON1	1,00553	6,913021	6,841447	0,000721	0,008043	-0,22514
RPL13	0,863313	11,43631	6,840046	0,000722	0,008043	-0,22629
EIF4B	1,373734	8,548626	6,839179	0,000722	0,008043	-0,22699
ADAM9	-2,08101	6,503786	-6,83856	0,000723	0,008043	-0,2275
DPYD	-1,40892	7,106493	-6,83422	0,000725	0,008058	-0,23104
ICOS	1,36437	5,52486	6,833309	0,000725	0,008058	-0,23179
CDR2	1,507817	6,320288	6,832704	0,000726	0,008058	-0,23228
ARHGEF37	4,211225	2,438946	6,826912	0,000729	0,008086	-0,23701
ZNF14	1,559835	5,136736	6,825357	0,00073	0,008088	-0,23828
NSA2	0,896712	9,949889	6,821926	0,000731	0,008101	-0,24109
MAGEF1	1,543457	6,431924	6,820175	0,000732	0,008101	-0,24252
GYPC	1,108488	8,035974	6,819893	0,000732	0,008101	-0,24275
SART3	0,940729	8,453124	6,817029	0,000734	0,008106	-0,24509
RELN	3,899227	3,949613	6,81697	0,000734	0,008106	-0,24514
MRPL24	0,856442	6,892718	6,815345	0,000735	0,008107	-0,24647
SNX27	-0,87288	7,871893	-6,8147	0,000735	0,008107	-0,247
LEF1	1,105504	9,118075	6,810255	0,000738	0,008122	-0,25064
ROR1	2,112264	3,960881	6,810026	0,000738	0,008122	-0,25083
TIGD6	2,312213	3,899046	6,805061	0,00074	0,008145	-0,25489
TPT1-AS1	1,193512	5,901123	6,799567	0,000743	0,00816	-0,2594
UBE2D1	-1,4748	7,781055	-6,79877	0,000744	0,00816	-0,26005
MMAA	0,943734	5,482204	6,797975	0,000744	0,00816	-0,2607
ANKRA2	1,075172	7,908048	6,795853	0,000745	0,00816	-0,26245
CHDH	3,36883	3,407723	6,794604	0,000746	0,00816	-0,26347
SNRPN	0,950071	8,02287	6,793631	0,000747	0,00816	-0,26427
CEP192	0,977259	7,392816	6,792913	0,000747	0,00816	-0,26486
TNKS1BP1	-2,16395	1,415309	-6,78847	0,000749	0,00816	-0,2685
PDZD11	-1,9128	3,560995	-6,78562	0,000751	0,00816	-0,27085
FAM200A	2,080882	5,855791	6,785556	0,000751	0,00816	-0,2709
MT1G	3,789219	2,951251	6,784528	0,000752	0,00816	-0,27174
01-set	1,446132	6,265558	6,783157	0,000752	0,00816	-0,27287
ASB15	3,531078	2,627193	6,782399	0,000753	0,00816	-0,27349
TUBBP5	3,531078	2,627193	6,782399	0,000753	0,00816	-0,27349

GSTO1	-1,58359	7,469723	-6,78181	0,000753	0,00816	-0,27398
RTN4	-1,29287	9,833061	-6,78142	0,000753	0,00816	-0,2743
THSD7A	2,119867	5,597556	6,781049	0,000753	0,00816	-0,2746
FCGR2A	-5,77769	4,329488	-6,77827	0,000755	0,00816	-0,27689
ZDHHC12	-4,07507	3,144844	-6,77514	0,000757	0,00816	-0,27946
RPS13	0,944592	10,51946	6,774365	0,000757	0,00816	-0,2801
AHCY	-1,59246	5,549086	-6,77386	0,000757	0,00816	-0,28051
ARRDC3	1,017303	8,802525	6,772014	0,000758	0,00816	-0,28203
AK1	2,133681	5,356962	6,770332	0,000759	0,00816	-0,28342
LTBP2	4,72479	3,419037	6,769319	0,00076	0,00816	-0,28425
POLR3C	-1,3023	3,815099	-6,76861	0,00076	0,00816	-0,28484
CITED4	-2,32576	1,16288	-6,766	0,000762	0,00816	-0,28699
INSM1	-2,32576	1,16288	-6,766	0,000762	0,00816	-0,28699
NAPA	-2,32576	1,16288	-6,766	0,000762	0,00816	-0,28699
LPCAT3	-1,84749	4,633508	-6,76451	0,000763	0,00816	-0,28821
ZNF546	2,611227	4,802898	6,76417	0,000763	0,00816	-0,28849
C16orf95	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
CAMP	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
MBLAC1	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
OCA2	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
RCAN2	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
SCUBE3	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
EFHC2	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
SPATA2L	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
TNFRSF8	-1,38998	0,694988	-6,76146	0,000764	0,00816	-0,29073
ZC3H12C	-2,21689	3,710896	-6,75958	0,000765	0,008165	-0,29228
ATG16L1	1,420639	6,25107	6,755854	0,000767	0,008181	-0,29535
ARHGEF1	1,618584	7,914849	6,752365	0,000769	0,008196	-0,29822
NIPAL2	-2,51563	3,031792	-6,73844	0,000777	0,008273	-0,30972
NHLRC1	-2,23808	1,452374	-6,73502	0,000779	0,008288	-0,31255
ZDHHC20	-1,24541	8,34637	-6,73006	0,000782	0,008312	-0,31665
PA2G4P4	1,820889	5,747036	6,72906	0,000783	0,008312	-0,31748
DGUOK	1,114909	7,415721	6,726377	0,000784	0,008316	-0,3197
C6orf120	-1,51936	5,100468	-6,72544	0,000785	0,008316	-0,32047
SNX22	2,058331	4,81794	6,725228	0,000785	0,008316	-0,32065
LPCAT2	-4,80423	4,778543	-6,72316	0,000786	0,008321	-0,32236
LILRB3	-5,63498	4,591465	-6,7212	0,000787	0,008321	-0,32398
ZFYVE16	-1,75945	7,53687	-6,72069	0,000787	0,008321	-0,32441
CCL16	3,136464	2,234898	6,720425	0,000788	0,008321	-0,32462
ST8SIA1	1,504518	6,974102	6,711958	0,000793	0,008358	-0,33164
DLG2	2,796536	5,129032	6,711644	0,000793	0,008358	-0,3319
SNHG5	1,00073	10,57381	6,711283	0,000793	0,008358	-0,3322
RPL19	0,836594	11,10877	6,703497	0,000798	0,0084	-0,33866
ARL6	1,671269	5,638234	6,701108	0,000799	0,008408	-0,34064
C19orf18	4,735976	3,670285	6,698041	0,000801	0,008419	-0,34319
PAPPA	3,119978	4,747403	6,697393	0,000801	0,008419	-0,34373
HIVEP2	0,878783	8,957531	6,694443	0,000803	0,008431	-0,34618
MSR1	-3,44485	5,044353	-6,68699	0,000807	0,008471	-0,35237
CLECL1	1,4988	4,372855	6,681882	0,00081	0,008497	-0,35662
RAP2B	-1,22549	8,159541	-6,6783	0,000812	0,008502	-0,35961
RPL35	1,029359	10,51424	6,677531	0,000813	0,008502	-0,36025
CDKN1B	0,814168	9,094496	6,677351	0,000813	0,008502	-0,3604

GNB4	-3,48118	6,704867	-6,67708	0,000813	0,008502	-0,36062
EIF4EBP1	-3,29012	2,173382	-6,6754	0,000814	0,008502	-0,36202
FGF9	2,087233	5,704852	6,675036	0,000814	0,008502	-0,36232
VCAN	-2,17528	7,233868	-6,67399	0,000815	0,008502	-0,36319
PIGL	1,408281	6,129637	6,672932	0,000816	0,008503	-0,36408
DBI	-1,17161	8,80815	-6,67149	0,000817	0,008506	-0,36528
LETM2	2,77314	2,776545	6,664873	0,000821	0,008541	-0,37079
PDCD7	0,916076	7,86131	6,663908	0,000821	0,008541	-0,3716
CSTA	-5,62143	4,746498	-6,65826	0,000825	0,00857	-0,37631
AHI1	1,203061	7,344536	6,651099	0,000829	0,008609	-0,38229
IQGAP1	-1,04978	9,882063	-6,64979	0,00083	0,008611	-0,38339
PCK2	-3,23554	4,291892	-6,64727	0,000831	0,008617	-0,38549
ACSL1	-2,12546	5,889996	-6,64656	0,000832	0,008617	-0,38609
CYTH1	0,850018	10,02554	6,645981	0,000832	0,008617	-0,38657
CCDC142	2,727327	3,66596	6,638184	0,000837	0,00866	-0,39309
KCNMA1	-2,46892	5,21822	-6,63397	0,00084	0,008681	-0,39662
EML4	0,84641	10,13656	6,63108	0,000841	0,008691	-0,39904
ADHFE1	-3,31612	2,186382	-6,63046	0,000842	0,008691	-0,39956
ENPP5	-3,16395	2,110296	-6,62799	0,000843	0,0087	-0,40163
SFXN1	0,991913	7,892103	6,627062	0,000844	0,0087	-0,40241
NDST1	-5,08875	3,877709	-6,62361	0,000846	0,008711	-0,4053
TLR8	-6,25687	6,2432	-6,62338	0,000846	0,008711	-0,40549
RSPH4A	4,183186	3,814901	6,618577	0,000849	0,008736	-0,40952
SLC39A10	2,201626	8,441649	6,617281	0,00085	0,008738	-0,41061
LGSN	3,523285	2,818284	6,614926	0,000852	0,008747	-0,41258
FOXB1	2,72232	4,020253	6,611124	0,000854	0,008765	-0,41577
LDLRAD3	-4,46044	3,004197	-6,61023	0,000854	0,008765	-0,41652
CNTD2	3,483737	1,741869	6,601553	0,00086	0,008816	-0,42382
SNORD89	1,347904	7,840064	6,593358	0,000865	0,008863	-0,43071
CLEC5A	-5,2699	6,294043	-6,5889	0,000868	0,008886	-0,43446
HSDL2	-1,05738	5,857658	-6,58125	0,000873	0,008931	-0,44091
NEDD4L	1,682298	5,757353	6,580155	0,000874	0,008932	-0,44183
PIK3IP1	0,972887	9,599462	6,578518	0,000875	0,008936	-0,44321
09-set	0,826147	9,768961	6,57551	0,000877	0,008946	-0,44575
MIR3609	2,740981	3,941906	6,575057	0,000877	0,008946	-0,44613
TBX19	2,182405	4,945283	6,569086	0,000881	0,00898	-0,45117
KLF6	-1,09046	10,64585	-6,56527	0,000884	0,008999	-0,45439
ZNF337	1,264283	6,218107	6,564172	0,000884	0,009	-0,45532
FYN	0,913995	10,42634	6,562111	0,000886	0,009007	-0,45706
RHOH	0,821978	8,494753	6,559623	0,000887	0,009018	-0,45916
HSBP1	-1,11117	7,912759	-6,55693	0,000889	0,009029	-0,46144
GPANK1	0,945892	6,634523	6,555046	0,00089	0,009035	-0,46303
SYTL2	1,069716	7,740966	6,553419	0,000892	0,009035	-0,46441
DNAH5	2,497284	1,581976	6,552193	0,000892	0,009035	-0,46544
HLA-DQB2	2,497284	1,581976	6,552193	0,000892	0,009035	-0,46544
PLEKHO2	-3,06322	5,508769	-6,54889	0,000895	0,009051	-0,46824
TTC7A	-0,84933	6,306352	-6,54542	0,000897	0,009068	-0,47118
CYP27A1	-6,29714	4,255879	-6,5428	0,000899	0,00908	-0,47339
MSRA	-1,89037	4,471624	-6,53689	0,000903	0,009114	-0,4784
ACTG1	-1,40717	10,82253	-6,53409	0,000905	0,009126	-0,48077
RNF24	-1,82462	6,437074	-6,52951	0,000908	0,009141	-0,48466
ZNF329	1,148608	4,812386	6,528472	0,000908	0,009141	-0,48554

MRPL10	1,025096	6,498883	6,528403	0,000908	0,009141	-0,4856
RPS16	0,819357	11,27407	6,528232	0,000909	0,009141	-0,48574
DSCR8	3,321928	1,660964	6,524313	0,000911	0,009154	-0,48907
ST5	3,321928	1,660964	6,524313	0,000911	0,009154	-0,48907
ATP6AP1L	2,419347	4,783943	6,522576	0,000912	0,009154	-0,49055
TNS3	-5,38186	4,521546	-6,52176	0,000913	0,009154	-0,49124
SPATS2L	-0,89978	5,994137	-6,52159	0,000913	0,009154	-0,49138
TMPPE	-3,22079	2,138716	-6,52031	0,000914	0,009156	-0,49247
MEGF9	-1,31025	7,248878	-6,51767	0,000916	0,009168	-0,49471
DYNLL1	-1,04134	8,092598	-6,51509	0,000918	0,009179	-0,49691
LXN	-3,16794	2,445625	-6,51415	0,000918	0,009179	-0,49771
SPG21	-1,37118	7,214847	-6,50715	0,000923	0,009221	-0,50365
RPS20	0,790138	11,12473	6,504129	0,000925	0,009236	-0,50623
KLHL4	1,814928	2,738082	6,502548	0,000926	0,00924	-0,50757
NCF1	-2,39989	1,199945	-6,50009	0,000928	0,009251	-0,50966
CCDC126	-1,04373	5,284434	-6,49879	0,000929	0,009253	-0,51077
DNAJB12	-1,30398	6,132999	-6,49458	0,000932	0,009276	-0,51436
ALDH3B1	-4,39474	3,745324	-6,49126	0,000934	0,009293	-0,51719
LRRFIP1	-1,06829	9,035355	-6,48937	0,000936	0,009294	-0,5188
TMEM119	3,833946	2,250306	6,489291	0,000936	0,009294	-0,51887
CD1D	-3,84651	2,58992	-6,48681	0,000937	0,009305	-0,52098
RNH1	-1,60354	7,402138	-6,48588	0,000938	0,009305	-0,52178
TNFRSF25	1,603182	7,36332	6,483927	0,000939	0,009312	-0,52345
MOB1A	-0,86018	9,398638	-6,48149	0,000941	0,009322	-0,52553
GRM4	2,835932	1,417966	6,480181	0,000942	0,009322	-0,52664
MYH11	4,336765	2,696703	6,479773	0,000942	0,009322	-0,52699
MAEL	3,079822	2,596553	6,475585	0,000945	0,009338	-0,53057
RBM26-AS1	2,646499	5,153867	6,47477	0,000946	0,009338	-0,53126
ZNRF1	0,97276	5,003776	6,474673	0,000946	0,009338	-0,53135
MGP	4,591476	3,490725	6,472341	0,000948	0,009348	-0,53334
TSGA10	1,29432	6,274529	6,471351	0,000948	0,009348	-0,53419
STAT5B	0,813314	8,249499	6,464812	0,000953	0,009388	-0,53978
RPL13A	0,795732	10,76813	6,460789	0,000956	0,00941	-0,54322
ATP10B	2,073295	3,62161	6,456973	0,000959	0,009418	-0,54649
ACSM5	2,130772	1,065386	6,455145	0,00096	0,009418	-0,54805
CRB1	2,130772	1,065386	6,455145	0,00096	0,009418	-0,54805
HES2	2,130772	1,065386	6,455145	0,00096	0,009418	-0,54805
SDS	-2,13077	1,065386	-6,45514	0,00096	0,009418	-0,54805
LAMP3	-1,63043	4,312497	-6,45336	0,000961	0,009424	-0,54958
FYCO1	1,29198	5,973001	6,451695	0,000963	0,00943	-0,55101
PROX1	3,334941	3,659897	6,45062	0,000963	0,009431	-0,55193
RBM45	1,549083	6,807155	6,44917	0,000964	0,009431	-0,55317
GLIS3	3,911852	2,622593	6,448777	0,000965	0,009431	-0,55351
PFN1	-1,01202	9,168783	-6,44749	0,000966	0,009434	-0,55461
SLC43A3	-1,49555	7,262599	-6,44587	0,000967	0,009439	-0,556
CLCN5	-3,02122	3,869551	-6,43659	0,000974	0,009499	-0,56396
ADAM28	-1,59625	7,278957	-6,43358	0,000976	0,00951	-0,56655
PSMD5	1,766229	6,997128	6,433214	0,000976	0,00951	-0,56686
GNPTAB	-0,896	7,723157	-6,43137	0,000978	0,009514	-0,56844
ZNF571	1,64054	4,818388	6,430713	0,000978	0,009514	-0,56901
ADK	-1,24809	7,364265	-6,428	0,00098	0,009514	-0,57134
NKAP	0,806586	8,256538	6,427382	0,000981	0,009514	-0,57187

VAT1	-3,26823	5,905378	-6,42644	0,000981	0,009514	-0,57268
GZMK	0,788977	8,256233	6,42628	0,000981	0,009514	-0,57282
ITGB2	-1,64334	10,75443	-6,42506	0,000982	0,009514	-0,57387
SNX31	3,77783	3,857879	6,424819	0,000983	0,009514	-0,57407
ATP6V1F	-1,13423	7,395833	-6,42454	0,000983	0,009514	-0,57432
DCAF4L1	3,50458	5,080904	6,422353	0,000984	0,009524	-0,5762
SNTG1	3,331507	4,129859	6,419588	0,000986	0,009533	-0,57857
RPL18	0,850987	11,0971	6,419247	0,000987	0,009533	-0,57887
HMMR	2,87968	3,570612	6,417664	0,000988	0,009538	-0,58023
PCLO	2,586444	3,595519	6,411875	0,000992	0,009574	-0,58521
TBC1D9B	-0,95083	6,38905	-6,40999	0,000994	0,009577	-0,58684
ST20	1,235722	5,386406	6,409519	0,000994	0,009577	-0,58724
STK17A	0,83865	8,782272	6,408726	0,000995	0,009577	-0,58793
GSTP1	-1,69037	8,3754	-6,40598	0,000997	0,009591	-0,59029
BLZF1	-1,63837	4,998743	-6,39952	0,001002	0,009628	-0,59586
STARD8	-1,98731	2,962619	-6,39846	0,001002	0,009628	-0,59677
CRISPLD2	-1,78334	3,496265	-6,39822	0,001003	0,009628	-0,59698
USP43	2,596351	4,891962	6,394837	0,001005	0,009646	-0,5999
MGAT5	0,924474	7,400199	6,393445	0,001006	0,009647	-0,6011
SPRY2	-3,30355	2,513428	-6,39294	0,001007	0,009647	-0,60154
STMN2	2,81707	1,408535	6,388207	0,00101	0,009666	-0,60563
TPTE2	2,81707	1,408535	6,388207	0,00101	0,009666	-0,60563
TNFSF8	1,543141	5,0232	6,387757	0,001011	0,009666	-0,60601
TSTD2	0,866458	6,734894	6,380978	0,001016	0,00971	-0,61187
DDX55	1,025016	7,330517	6,379616	0,001017	0,009713	-0,61305
KIF15	2,049845	3,993886	6,377972	0,001018	0,009717	-0,61447
TMED7	-1,3032	7,162224	-6,37734	0,001019	0,009717	-0,61502
CDKL2	2,604594	1,63563	6,371995	0,001023	0,00975	-0,61964
EML1	3,043094	1,521547	6,364461	0,001029	0,009794	-0,62617
SAMD10	-3,04309	1,521547	-6,36446	0,001029	0,009794	-0,62617
CLMN	-3,56582	3,946859	-6,35653	0,001035	0,009847	-0,63305
CYTIP	0,842986	9,494704	6,355471	0,001036	0,009848	-0,63396
TCEAL8	0,840674	7,638426	6,352536	0,001038	0,00986	-0,63651
DNAH10	3,081587	2,069114	6,352136	0,001039	0,00986	-0,63686
IP6K2	0,993549	7,273189	6,349766	0,001041	0,009872	-0,63891
03-mar	1,690303	5,074568	6,348254	0,001042	0,009876	-0,64023
SLC22A18A	3,210594	2,133618	6,343544	0,001046	0,009898	-0,64432
HK3	-3,50611	2,281375	-6,34307	0,001046	0,009898	-0,64473
KCNN3	3,407732	4,67283	6,342609	0,001046	0,009898	-0,64513
GLIPR1L2	2,667136	4,567048	6,341204	0,001047	0,009898	-0,64635
LPGAT1	-1,25857	7,843422	-6,34087	0,001048	0,009898	-0,64664
RGS1	1,333673	8,322145	6,340236	0,001048	0,009898	-0,64719
RPL28	0,835511	9,297059	6,338892	0,001049	0,009901	-0,64836
UBL7	-2,69759	1,682126	-6,33484	0,001053	0,009922	-0,65188
KCNK6	-1,55184	5,579051	-6,33394	0,001053	0,009922	-0,65267
ACTR3	-0,85226	10,01728	-6,33354	0,001054	0,009922	-0,65301
EIF3K	0,795262	9,147014	6,332191	0,001055	0,009926	-0,65419
IFITM2	0,91054	6,772422	6,329872	0,001057	0,009937	-0,6562
EIF3M	0,78574	8,734679	6,328246	0,001058	0,009943	-0,65762
SHROOM3	3,114765	2,557383	6,321311	0,001064	0,00999	-0,66366
GCH1	-1,53058	7,462114	-6,31956	0,001065	0,009996	-0,66519
PSD2	4,563624	2,281812	6,318718	0,001066	0,009996	-0,66592

MYH3	2,207533	4,420861	6,316202	0,001068	0,010001	-0,66811
SLCO3A1	-1,00805	7,672967	-6,31571	0,001068	0,010001	-0,66854
RNF157	1,560393	5,970938	6,315362	0,001069	0,010001	-0,66884
MGAT4C	2,658292	5,394475	6,314738	0,001069	0,010001	-0,66939
C15orf48	-2,64841	8,449545	-6,3072	0,001075	0,010048	-0,67596
HIST1H4H	1,700158	4,958327	6,306938	0,001076	0,010048	-0,67619
IL17RA	-0,99343	8,649485	-6,30542	0,001077	0,010053	-0,67752
POLR1D	0,784545	8,153036	6,304457	0,001078	0,010054	-0,67836
GPC6	3,352965	2,204803	6,300245	0,001081	0,010068	-0,68204
CDKN3	-2,38998	1,194988	-6,30007	0,001081	0,010068	-0,68219
ARHGEF17	-2,38998	1,194988	-6,30007	0,001081	0,010068	-0,68219
PAWR	1,373461	5,690997	6,298226	0,001083	0,010076	-0,6838
ABLIM1	0,991493	9,037758	6,294423	0,001086	0,010094	-0,68713
INSIG1	-1,12686	7,56634	-6,29396	0,001086	0,010094	-0,68753
CHKA	-1,79545	5,066992	-6,2933	0,001087	0,010094	-0,68811
WHAMM	1,331012	8,668801	6,291607	0,001088	0,010101	-0,68959
POLR1C	1,642788	5,324652	6,289655	0,00109	0,01011	-0,6913
RNF19B	-1,78717	5,499845	-6,28755	0,001092	0,010119	-0,69313
SH3RF1	-3,48374	2,270189	-6,28538	0,001094	0,01013	-0,69504
ZFP14	1,189094	6,597541	6,281713	0,001097	0,010152	-0,69825
IDH2	-2,97231	6,255885	-6,27944	0,001099	0,010163	-0,70023
STEAP4	-5,99688	4,565251	-6,27629	0,001101	0,010181	-0,703
TOMM40L	-2,01775	3,449517	-6,27438	0,001103	0,010184	-0,70467
ALDH8A1	3,464106	2,593707	6,274258	0,001103	0,010184	-0,70478
CLDN15	1,859009	6,323455	6,273451	0,001104	0,010184	-0,70549
YTHDF1	1,040694	7,46819	6,272561	0,001105	0,010184	-0,70627
TLL2	3,828945	2,247806	6,270829	0,001106	0,010185	-0,70778
C1QBP	0,990921	7,672417	6,270246	0,001107	0,010185	-0,7083
MAN1A2	0,76058	10,88089	6,268244	0,001108	0,010185	-0,71005
MYO5A	-0,99019	7,257559	-6,26823	0,001108	0,010185	-0,71006
YTHDC1	0,905923	9,922113	6,268182	0,001108	0,010185	-0,71011
DNAJC3	-0,99059	9,043719	-6,26747	0,001109	0,010185	-0,71073
CSF2RB	-1,40135	7,436899	-6,26316	0,001113	0,010212	-0,71451
FAM83B	3,321928	1,994297	6,257385	0,001118	0,010223	-0,71958
ZBTB8B	3,321928	1,994297	6,257385	0,001118	0,010223	-0,71958
LRIG1	0,869267	7,126697	6,257307	0,001118	0,010223	-0,71965
JRKL	1,132736	7,458456	6,25726	0,001118	0,010223	-0,71969
TRPM3	2,968745	4,884263	6,257242	0,001118	0,010223	-0,71971
NOSTRIN	3,025761	3,286857	6,256829	0,001118	0,010223	-0,72007
PDLIM5	-1,42973	6,858782	-6,25363	0,001121	0,010238	-0,72288
SNORD17	2,881285	2,107309	6,252617	0,001122	0,010238	-0,72377
FCN1	-7,26943	6,319808	-6,25247	0,001122	0,010238	-0,72391
MOB1B	-2,06433	6,598366	-6,24829	0,001126	0,010264	-0,72758
C12orf65	1,115046	7,306422	6,247059	0,001127	0,010268	-0,72866
FAM184B	4,262634	2,131317	6,241143	0,001132	0,010308	-0,73387
MEGF8	1,966583	4,054731	6,234727	0,001138	0,010341	-0,73952
FARP2	-2,15431	4,889392	-6,23465	0,001138	0,010341	-0,73959
TUBB1	2,615282	4,459417	6,234631	0,001138	0,010341	-0,7396
AOAH	-1,61591	6,404824	-6,23219	0,00114	0,010354	-0,74175
DCTN1	-1,09929	6,338969	-6,22791	0,001144	0,010382	-0,74552
ADAMTS5	2,992454	4,400975	6,223809	0,001147	0,010409	-0,74914
QKI	-0,84165	9,651393	-6,22166	0,001149	0,010419	-0,75104

VLDLR	2,253227	4,849922	6,213848	0,001156	0,010463	-0,75794
LGALSL	3,214619	1,607309	6,212983	0,001157	0,010463	-0,7587
NHLH1	3,214619	1,607309	6,212983	0,001157	0,010463	-0,7587
NPVF	3,214619	1,607309	6,212983	0,001157	0,010463	-0,7587
DNAJB6	1,13859	8,349057	6,210625	0,001159	0,010476	-0,76078
SLA	0,87214	8,591824	6,209565	0,00116	0,010478	-0,76172
NR2C2	0,755967	8,082685	6,206703	0,001163	0,010495	-0,76425
BCAS1	2,900415	4,840183	6,202111	0,001167	0,010514	-0,76831
GGH	-3,79052	3,002569	-6,19773	0,001171	0,010514	-0,77218
DOCK3	3,156378	3,578189	6,197558	0,001171	0,010514	-0,77234
LEPROT	-1,14659	7,715909	-6,19482	0,001174	0,010514	-0,77476
ZNF521	2,337569	4,458906	6,194097	0,001174	0,010514	-0,77541
SMYD5	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
ZNF213	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
C19orf44	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
HOXA1	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
KANK2	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
PCDHGA6	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
ZNF365	-1,9183	0,959148	-6,19241	0,001176	0,010514	-0,7769
IL21	2,530445	4,341495	6,1917	0,001176	0,010514	-0,77753
ELFN2	2,87157	1,435785	6,191657	0,001176	0,010514	-0,77757
LETMD1	1,08791	6,550022	6,191199	0,001177	0,010514	-0,77797
DSE	-1,34657	7,670594	-6,19025	0,001178	0,010514	-0,77881
10-set	-4,1173	2,725318	-6,18998	0,001178	0,010514	-0,77906
NACA	0,837319	10,78801	6,189755	0,001178	0,010514	-0,77925
NUDT13	-2,46411	1,232053	-6,18798	0,00118	0,010522	-0,78083
FAAH2	2,046903	5,590265	6,185428	0,001182	0,010537	-0,78309
RSL24D1	0,973823	8,811211	6,182958	0,001185	0,010551	-0,78528
TMEM127	-1,9131	6,911666	-6,18085	0,001187	0,010561	-0,78714
CSTB	-1,95856	8,78186	-6,17961	0,001188	0,010562	-0,78825
MCF2	2,168131	4,224754	6,179182	0,001188	0,010562	-0,78863
MLEC	-1,05104	7,951887	-6,17834	0,001189	0,010562	-0,78938
ADI1	-1,40292	7,344297	-6,17742	0,00119	0,010563	-0,79019
GPHN	1,283477	4,662308	6,176688	0,00119	0,010563	-0,79084
CDK17	0,964117	7,768892	6,172448	0,001194	0,010584	-0,79461
ABCB4	2,045239	4,755844	6,171259	0,001195	0,010584	-0,79566
STXBP6	2,841472	5,014523	6,170914	0,001196	0,010584	-0,79597
AADAC	2,36288	3,238082	6,17088	0,001196	0,010584	-0,796
LSM5	0,942806	8,007205	6,163295	0,001203	0,010636	-0,80274
ATP6V0B	-1,07489	8,036193	-6,16255	0,001204	0,010636	-0,8034
RAB3D	-3,48834	5,006804	-6,16226	0,001204	0,010636	-0,80366
DHRS9	-3,33847	2,669236	-6,16031	0,001206	0,010643	-0,80539
FAM53B	0,898642	7,920648	6,159835	0,001206	0,010643	-0,80582
TAP2	-1,47607	8,20178	-6,15906	0,001207	0,010643	-0,8065
EMG1	0,787607	6,83493	6,157258	0,001209	0,010652	-0,80811
SYT16	3,685696	2,704502	6,155796	0,00121	0,010657	-0,80941
PTGER2	-1,42202	6,812444	-6,15452	0,001211	0,010661	-0,81054
SSPN	1,312802	6,100786	6,153018	0,001213	0,010668	-0,81188
GCNT1	-2,11457	4,970543	-6,15113	0,001215	0,010677	-0,81356
C5AR1	-3,0435	6,424618	-6,14406	0,001221	0,010725	-0,81987
SPI1	-4,89488	4,221416	-6,14381	0,001222	0,010725	-0,82009
ZCWPW1	1,62076	5,932487	6,142671	0,001223	0,010725	-0,8211

ZNF516	-3,92288	3,402083	-6,14182	0,001224	0,010725	-0,82186
KLF9	-0,82075	8,211483	-6,14147	0,001224	0,010725	-0,82217
ST14	-4,44896	3,688584	-6,13564	0,00123	0,010768	-0,82737
LHFPL2	-4,57637	6,80726	-6,13104	0,001234	0,0108	-0,83148
RFX5	-1,38142	6,09045	-6,12725	0,001238	0,010826	-0,83487
PID1	-4,2494	2,65302	-6,12449	0,00124	0,010843	-0,83733
RPL11	0,752636	11,55052	6,120057	0,001245	0,010874	-0,84129
EMCN	2,989202	4,56604	6,115417	0,001249	0,010903	-0,84544
COX7C	0,770526	10,35976	6,115205	0,00125	0,010903	-0,84563
ZNF300	1,964362	3,641274	6,113063	0,001252	0,010915	-0,84755
MBP	0,760167	10,55306	6,11171	0,001253	0,01092	-0,84876
CALU	-1,4617	6,910935	-6,10797	0,001257	0,01094	-0,85211
TCF7	1,164675	8,849083	6,107295	0,001257	0,01094	-0,85271
MRPL9	0,902034	7,061654	6,106979	0,001258	0,01094	-0,853
QSOX1	-1,2613	6,184149	-6,103	0,001262	0,010968	-0,85657
ECT2	-4,15577	2,851859	-6,09999	0,001265	0,01098	-0,85925
CLK1	0,886482	9,685391	6,099959	0,001265	0,01098	-0,85929
ARL9	3,489428	2,273035	6,099266	0,001265	0,01098	-0,85991
ADAMTS9	3,542916	3,494767	6,097239	0,001267	0,010991	-0,86172
MED18	1,069017	6,248969	6,093697	0,001271	0,011016	-0,8649
GFRA2	2,408001	2,593975	6,092751	0,001272	0,011017	-0,86575
C15orf41	1,725177	4,21072	6,089636	0,001275	0,011027	-0,86855
GBP5	-1,02645	10,49925	-6,08918	0,001276	0,011027	-0,86896
PLBD1	-5,89084	5,114686	-6,08885	0,001276	0,011027	-0,86925
IFNG	4,546038	5,339576	6,088515	0,001276	0,011027	-0,86955
NEGR1	1,791465	3,87067	6,087682	0,001277	0,011028	-0,8703
GABRB3	3,030919	2,04378	6,086788	0,001278	0,011029	-0,8711
LDHB	0,889102	9,350382	6,08553	0,001279	0,011033	-0,87223
ZIK1	2,078671	4,577572	6,084467	0,00128	0,011036	-0,87319
SESN3	0,772636	9,60966	6,079427	0,001286	0,011073	-0,87772
PPBP	1,133159	7,194914	6,075173	0,00129	0,011104	-0,88154
CSNK1G2	0,966942	8,05764	6,074404	0,001291	0,011104	-0,88223
NOG	1,005539	7,430417	6,073254	0,001292	0,011108	-0,88327
SH2D1B	0,898677	7,118796	6,070664	0,001295	0,011124	-0,8856
ZNF266	1,089651	6,599094	6,069741	0,001296	0,011125	-0,88643
FAM209A	2,704323	3,603791	6,06736	0,001298	0,011139	-0,88857
SNHG6	0,862216	10,92405	6,064896	0,001301	0,011155	-0,89079
AKR1B1	0,958047	6,699523	6,06367	0,001302	0,011159	-0,8919
NGRN	1,677779	5,775211	6,060436	0,001305	0,011179	-0,89481
MAPK10	2,752329	4,924117	6,059853	0,001306	0,011179	-0,89533
CES1P1	3,460274	2,258458	6,05635	0,001309	0,011199	-0,89849
TNKS	0,792849	6,849606	6,056142	0,00131	0,011199	-0,89868
SPHKAP	4,230387	2,643514	6,053994	0,001312	0,011208	-0,90062
SATB1	0,841906	10,2031	6,053566	0,001312	0,011208	-0,901
PLA2G4A	-4,09698	2,822466	-6,05262	0,001313	0,01121	-0,90186
RPAP3	-1,27958	7,641979	-6,04601	0,00132	0,011258	-0,90782
NUCB1	-1,19394	6,286854	-6,04576	0,001321	0,011258	-0,90805
LAX1	1,798773	4,999123	6,041509	0,001325	0,011289	-0,91189
UBC	-1,1401	9,468095	-6,03694	0,00133	0,011318	-0,91601
CLLU1	2,771911	4,680679	6,036658	0,00133	0,011318	-0,91627
TMX1	-1,23939	7,702879	-6,03605	0,001331	0,011318	-0,91682
ZNF146	0,857825	9,046718	6,032717	0,001334	0,011338	-0,91983

RIPK2	-0,91963	6,999022	-6,03233	0,001335	0,011338	-0,92018
MAP4K2	0,868298	6,561606	6,027805	0,00134	0,011367	-0,92428
OR8A1	2,787802	3,719661	6,027678	0,00134	0,011367	-0,92439
IER3	-2,49103	8,605454	-6,0264	0,001341	0,011372	-0,92555
PITHD1	0,926517	7,314183	6,025187	0,001342	0,011376	-0,92665
ETAA1	1,192433	6,402343	6,022835	0,001345	0,011391	-0,92878
RGS19	-2,10779	6,398572	-6,02104	0,001347	0,0114	-0,9304
MTRF1L	-1,25163	3,789766	-6,01913	0,001349	0,011411	-0,93213
CRELD2	-1,08544	6,298282	-6,01633	0,001352	0,01143	-0,93467
LRP6	1,61576	4,13364	6,012309	0,001356	0,011449	-0,93831
BACH2	0,968209	8,720599	6,01195	0,001357	0,011449	-0,93864
ZNF268	1,471876	6,804281	6,011717	0,001357	0,011449	-0,93885
TPM4	-1,6173	7,134021	-6,01125	0,001358	0,011449	-0,93927
RBM12B	1,158381	8,443402	6,01003	0,001359	0,011453	-0,94038
DNAJC27	1,156854	6,138245	6,009016	0,00136	0,011456	-0,9413
PEX12	2,576813	5,235857	6,003327	0,001366	0,011502	-0,94646
ARRDC2	0,800932	7,331938	5,999231	0,001371	0,011529	-0,95018
AOC2	2,830618	2,081976	5,998886	0,001371	0,011529	-0,9505
OR2A12	2,440643	3,276963	5,997556	0,001373	0,011534	-0,9517
ZNF296	-2,52832	1,26416	-5,99614	0,001374	0,011537	-0,95299
DNAH7	2,452496	5,660176	5,99577	0,001375	0,011537	-0,95333
PLEKHG3	-3,50145	4,769151	-5,99365	0,001377	0,01155	-0,95525
PDGFRA	2,375371	4,759101	5,992216	0,001378	0,011557	-0,95656
TNPO2	0,998106	6,821749	5,991298	0,001379	0,011558	-0,95739
ZNF263	0,964552	6,689246	5,990404	0,00138	0,01156	-0,95821
TLR4	-6,02895	5,121784	-5,98477	0,001387	0,011605	-0,96333
ZNF441	1,483589	5,130934	5,980309	0,001392	0,011634	-0,96739
SHC4	3,587184	1,793592	5,979772	0,001392	0,011634	-0,96788
DNAJA3	0,794774	6,4037	5,979532	0,001393	0,011634	-0,9681
WDR43	0,819889	8,96277	5,978724	0,001394	0,011635	-0,96883
CENPM	2,449927	3,689069	5,976536	0,001396	0,011648	-0,97083
ACRBP	1,922238	2,351094	5,974759	0,001398	0,011658	-0,97245
VAMP2	0,913725	8,05406	5,974051	0,001399	0,011658	-0,97309
TMBIM6	-0,73179	10,46965	-5,97138	0,001402	0,011676	-0,97553
C3	-2,89081	2,307058	-5,97014	0,001403	0,011681	-0,97666
ATP8A1	0,796245	8,809915	5,968214	0,001405	0,011688	-0,97841
RPLP0	0,876844	10,54991	5,967901	0,001406	0,011688	-0,9787
TMEM177	-1,84119	3,361236	-5,9666	0,001407	0,011694	-0,97989
CAST	-0,85404	9,722795	-5,96486	0,001409	0,011698	-0,98147
GRB2	-0,79468	9,967828	-5,96451	0,00141	0,011698	-0,98179
COL4A1	2,72479	3,085703	5,963945	0,00141	0,011698	-0,98231
NFE2L3	-5,11453	3,99791	-5,9612	0,001413	0,011711	-0,98481
ANXA10	2,904749	3,088004	5,961144	0,001413	0,011711	-0,98486
SLC26A7	3,977186	3,378568	5,959543	0,001415	0,011719	-0,98633
CFP	-1,59567	5,191137	-5,9536	0,001422	0,011769	-0,99175
CASC1	4,581856	2,624262	5,949966	0,001426	0,011796	-0,99508
TIMELESS	-1,35889	5,310041	-5,94799	0,001429	0,011808	-0,99688
ZNF773	2,743794	3,202515	5,945741	0,001431	0,011812	-0,99894
FMN1	-3,77958	3,330432	-5,94487	0,001432	0,011812	-0,99973
ATP2B3	3,150404	1,575202	5,944556	0,001433	0,011812	-1,00002
OR4N5	3,150404	1,575202	5,944556	0,001433	0,011812	-1,00002
TET3	-1,38558	6,595926	-5,94401	0,001433	0,011812	-1,00052

PMEP1A1	1,165294	6,964835	5,941223	0,001436	0,011831	-1,00307
LRRC37A3	3,043094	1,854881	5,940064	0,001438	0,011831	-1,00413
KMO	-1,30008	6,011864	-5,93981	0,001438	0,011831	-1,00437
HIST2H2BC	1,662623	6,273337	5,938462	0,00144	0,011837	-1,0056
PGR	1,604594	1,802297	5,937566	0,001441	0,011838	-1,00642
DLEU1	1,446639	4,599772	5,936927	0,001441	0,011838	-1,00701
PYCR1	1,344621	2,886929	5,935097	0,001444	0,011849	-1,00868
ABHD12	-4,98859	4,430082	-5,93074	0,001449	0,011878	-1,01268
NUP50	0,836914	8,663363	5,930016	0,001449	0,011878	-1,01334
HSP90AA1	-0,73535	11,75313	-5,92975	0,00145	0,011878	-1,01358
RUNDC3B	2,365676	5,175265	5,929087	0,001451	0,011878	-1,01419
SPCS3	-0,9361	9,073612	-5,9285	0,001451	0,011878	-1,01473
ANKRD54	1,153419	5,778536	5,923379	0,001457	0,011921	-1,01942
KIT	1,448592	5,406614	5,921684	0,001459	0,01193	-1,02098
NSUN6	1,040501	6,861329	5,918566	0,001463	0,011954	-1,02384
ZNF703	-2,7664	1,716535	-5,91594	0,001466	0,011972	-1,02625
REM2	3,022627	2,372968	5,914729	0,001468	0,011977	-1,02736
PSEN1	-0,83762	7,267453	-5,91229	0,00147	0,011984	-1,02961
IFI6	-4,26989	4,758399	-5,91186	0,001471	0,011984	-1,03
HEXIM1	-1,1858	7,848209	-5,91143	0,001472	0,011984	-1,03039
PTBP2	0,843547	6,225119	5,911167	0,001472	0,011984	-1,03064
CDC14A	0,912653	7,298887	5,910419	0,001473	0,011984	-1,03132
CTNNBIP1	-1,57174	5,603475	-5,9072	0,001477	0,012009	-1,03428
CISD2	-1,22656	6,46204	-5,90595	0,001478	0,012014	-1,03543
VASH1	-3,8037	3,204145	-5,90432	0,00148	0,012023	-1,03693
DANCR	1,30815	6,210739	5,902527	0,001482	0,012028	-1,03858
SORBS2	4,066983	3,561812	5,902468	0,001482	0,012028	-1,03863
HSF2	0,90207	7,262124	5,901363	0,001484	0,012031	-1,03965
ITGA2	2,708742	3,272667	5,900074	0,001485	0,012031	-1,04084
ATXN7L3B	0,866871	8,010218	5,899962	0,001485	0,012031	-1,04094
ARSB	-4,97343	4,4225	-5,89866	0,001487	0,012037	-1,04214
DNER	2,730764	1,698715	5,897863	0,001488	0,012038	-1,04287
TRAPPC6A	0,918054	6,109455	5,894021	0,001493	0,012069	-1,04641
SLC13A3	4,805951	2,402975	5,891336	0,001496	0,012089	-1,04888
CDC42EP1	-2,52075	1,260374	-5,88885	0,001499	0,012098	-1,05117
SIGLEC11	2,520747	1,260374	5,888852	0,001499	0,012098	-1,05117
IMPDH2	0,837973	7,099879	5,888322	0,001499	0,012098	-1,05166
TSPYL4	0,968304	7,499633	5,887437	0,001501	0,012099	-1,05247
FH	-0,9725	6,032935	-5,88384	0,001505	0,012127	-1,05579
SSU72	0,889925	8,188302	5,883218	0,001506	0,012127	-1,05636
ADAMDEC1	-6,51437	5,006496	-5,88049	0,001509	0,012147	-1,05888
SEPT7P2	1,243696	5,674126	5,877175	0,001513	0,01217	-1,06194
PDP1	-2,22323	6,770469	-5,87621	0,001514	0,01217	-1,06283
TMEM42	1,194298	5,17876	5,876106	0,001514	0,01217	-1,06293
FAM98A	-0,97119	5,02788	-5,87477	0,001516	0,012177	-1,06416
SRGAP1	2,391621	4,611391	5,87385	0,001517	0,012179	-1,06501
GNAQ	-0,82127	8,281049	-5,87199	0,00152	0,012185	-1,06673
CCDC62	3,99581	3,633535	5,871809	0,00152	0,012185	-1,06689
RASGRF2	1,087109	6,194666	5,871036	0,001521	0,012186	-1,06761
PRKRA	-0,91348	5,940177	-5,86783	0,001525	0,012209	-1,07057
SLITRK5	2,079822	2,870529	5,867356	0,001525	0,012209	-1,07101
TEX2	-1,66351	4,613188	-5,86548	0,001528	0,012215	-1,07275

AREG	1,41492	3,902448	5,865327	0,001528	0,012215	-1,07288
KYNU	-2,16788	7,210579	-5,86462	0,001529	0,012216	-1,07354
IKZF2	0,737406	8,875961	5,860712	0,001534	0,012248	-1,07715
XAF1	-1,02097	8,275896	-5,85654	0,001539	0,012277	-1,08101
PLCXD2	1,272935	5,762204	5,856463	0,001539	0,012277	-1,08108
SOX2-OT	2,279226	5,225409	5,854994	0,001541	0,012284	-1,08244
TTC32	1,592269	8,375969	5,854371	0,001542	0,012284	-1,08302
RAPH1	-1,88766	2,912791	-5,85234	0,001544	0,012297	-1,0849
KBTBD7	0,916351	7,614378	5,847958	0,00155	0,012335	-1,08896
VRK1	0,797269	7,260531	5,847182	0,001551	0,012335	-1,08968
ARHGEF10I	-5,55883	4,943364	-5,84655	0,001552	0,012335	-1,09026
FERMT3	-1,60959	7,317224	-5,84417	0,001555	0,012352	-1,09247
C1QTNF6	3,108681	4,866553	5,839434	0,001561	0,012388	-1,09686
DTHD1	1,947972	5,61559	5,839257	0,001561	0,012388	-1,09702
MAGI2	2,051606	4,176207	5,838409	0,001562	0,01239	-1,09781
HMGXB4	-0,91702	6,753469	-5,83462	0,001567	0,012421	-1,10133
CDH3	3,708148	2,520741	5,832983	0,001569	0,012421	-1,10285
CBX3P2	1,343433	3,974013	5,831239	0,001571	0,012421	-1,10446
CD276	-4,40075	2,97435	-5,83046	0,001572	0,012421	-1,10519
DLEU2L	1,668759	5,494009	5,829273	0,001574	0,012421	-1,10629
MUC20	2,683771	4,544329	5,828736	0,001574	0,012421	-1,10679
ELL	0,944243	7,39804	5,828428	0,001575	0,012421	-1,10708
ARAP1	-0,86943	7,143322	-5,82783	0,001576	0,012421	-1,10763
TARDBP	1,010427	8,029911	5,827682	0,001576	0,012421	-1,10777
WDR66	4,237929	3,754595	5,827062	0,001577	0,012421	-1,10834
NOL9	0,899671	7,607547	5,825076	0,001579	0,012421	-1,11019
PYROXD1	1,018407	6,871574	5,82486	0,001579	0,012421	-1,11039
ZNF804A	-2,44135	3,579616	-5,824	0,001581	0,012421	-1,11119
SLC7A5	0,901059	6,862334	5,823765	0,001581	0,012421	-1,11141
RPS4Y1	0,718051	9,625815	5,822679	0,001582	0,012421	-1,11242
RAB39B	1,286974	6,133198	5,822251	0,001583	0,012421	-1,11282
LMOD3	1,881285	1,273976	5,821711	0,001584	0,012421	-1,11332
RNF180	1,881285	1,273976	5,821711	0,001584	0,012421	-1,11332
SCARNA13	1,881285	1,273976	5,821711	0,001584	0,012421	-1,11332
GFRA1	1,881285	1,273976	5,821711	0,001584	0,012421	-1,11332
SMC1B	3,004266	4,363787	5,820504	0,001585	0,012422	-1,11444
RNF146	0,930115	7,842805	5,817076	0,00159	0,012422	-1,11763
ZNF91	1,48415	6,929019	5,81505	0,001592	0,012422	-1,11951
CDH26	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
FADS2	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
PRSS36	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
TMEM150E	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
ZNF285	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
ZSCAN20	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
ARHGEF25	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
KCNQ3	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
LGALS12	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
XRCC2	-1,19499	0,597494	-5,81295	0,001595	0,012422	-1,12147
CD200	1,410536	4,898373	5,810651	0,001598	0,012438	-1,12361
ITPR2	-0,8418	8,802743	-5,80889	0,0016	0,01245	-1,12525
LPP	-1,41102	7,223675	-5,8048	0,001606	0,012485	-1,12906
DNASE1L1	-1,75125	4,434866	-5,80332	0,001608	0,012492	-1,13044

OSTM1	-0,97117	7,318824	-5,80273	0,001609	0,012492	-1,13099
SGCD	1,927529	5,146063	5,801851	0,00161	0,012493	-1,13181
FBL	1,041213	9,813601	5,801372	0,00161	0,012493	-1,13225
ACVR1C	1,139844	6,11667	5,799691	0,001613	0,012503	-1,13382
PF4	1,094838	7,927686	5,796788	0,001616	0,012526	-1,13653
F3	-1,67311	5,148769	-5,79615	0,001617	0,012526	-1,13713
EHD4	-1,88272	6,202285	-5,79337	0,001621	0,012531	-1,13972
ACSM4	2,81707	1,741869	5,793045	0,001621	0,012531	-1,14002
GSG1	2,81707	1,741869	5,793045	0,001621	0,012531	-1,14002
GUCY2C	2,81707	1,741869	5,793045	0,001621	0,012531	-1,14002
HOMEZ	1,350378	5,320121	5,791603	0,001623	0,012539	-1,14137
CD84	-1,45243	8,091431	-5,78976	0,001626	0,012551	-1,14308
MLLT11	1,068578	4,331728	5,787983	0,001628	0,012563	-1,14475
MRFAP1L1	0,732371	9,704716	5,787229	0,001629	0,012563	-1,14545
SLC44A1	-1,11985	8,00912	-5,78626	0,001631	0,012563	-1,14636
PCDH7	2,116157	4,996006	5,785063	0,001632	0,012563	-1,14747
ANKRD9	-2,58496	1,292481	-5,78329	0,001635	0,012563	-1,14913
CCNA1	-2,58496	1,292481	-5,78329	0,001635	0,012563	-1,14913
MYD88	-1,14629	7,210882	-5,78282	0,001635	0,012563	-1,14957
ZNF780B	1,225751	6,594377	5,782772	0,001635	0,012563	-1,14961
SECTM1	-3,14341	5,880841	-5,78264	0,001635	0,012563	-1,14974
FCRLA	1,152363	4,642739	5,781966	0,001636	0,012563	-1,15037
HVCN1	-1,24175	7,023982	-5,78018	0,001639	0,012575	-1,15204
PABPC5	2,609085	5,525135	5,77786	0,001642	0,012593	-1,15421
AKAP8L	1,111797	5,770517	5,777008	0,001643	0,012595	-1,155
PRDM10	1,10199	5,950963	5,77505	0,001646	0,012606	-1,15683
TRIM23	0,98405	7,029616	5,774633	0,001646	0,012606	-1,15722
B4GALT5	-0,93246	7,738053	-5,7721	0,00165	0,01262	-1,1596
PTK2	1,340148	4,499521	5,771976	0,00165	0,01262	-1,15971
FIGN	2,521474	4,522282	5,764455	0,00166	0,012692	-1,16675
MSL3	0,853506	8,839367	5,760481	0,001666	0,012727	-1,17047
SLC1A5	-2,91102	5,270859	-5,7578	0,001669	0,012748	-1,17299
ADPRH	-2,62934	4,131739	-5,75516	0,001673	0,012764	-1,17546
PPM1F	-2,01281	5,458094	-5,75439	0,001674	0,012764	-1,17619
GNG4	2,764261	3,156106	5,750076	0,00168	0,012764	-1,18023
BCAP29	-1,29649	6,706884	-5,74967	0,001681	0,012764	-1,18062
IER2	-0,86162	8,697766	-5,74928	0,001681	0,012764	-1,18098
MYO9B	-0,78281	7,013554	-5,74865	0,001682	0,012764	-1,18157
PODXL	-2,35894	1,179469	-5,7485	0,001682	0,012764	-1,18171
ANKRD34C	2,358939	1,179469	5,748502	0,001682	0,012764	-1,18171
CCNB2	2,358939	1,179469	5,748502	0,001682	0,012764	-1,18171
COX8C	2,358939	1,179469	5,748502	0,001682	0,012764	-1,18171
GSDMC	2,358939	1,179469	5,748502	0,001682	0,012764	-1,18171
PIK3C2G	2,358939	1,179469	5,748502	0,001682	0,012764	-1,18171
FRA10AC1	0,812978	9,032167	5,746617	0,001685	0,012772	-1,18348
HCK	-4,58384	5,789204	-5,74632	0,001685	0,012772	-1,18376
ARIH1	1,119736	8,668405	5,745804	0,001686	0,012772	-1,18424
SCN11A	3,169519	4,277031	5,74417	0,001688	0,012783	-1,18578
CFD	-2,31486	4,767338	-5,74263	0,001691	0,012792	-1,18723
TXNIP	-0,75773	11,33987	-5,74193	0,001692	0,012793	-1,18788
FAM84B	0,996472	6,280407	5,739205	0,001695	0,012815	-1,19044
EYA4	3,047496	4,628798	5,736885	0,001699	0,012833	-1,19263

DCUN1D2	-2,23808	2,647362	-5,73406	0,001703	0,01284	-1,19528
XPNPEP3	1,18065	5,207575	5,733052	0,001704	0,01284	-1,19623
COL1A2	2,884879	2,883082	5,73272	0,001705	0,01284	-1,19654
MAP7D1	-0,79501	7,359147	-5,73268	0,001705	0,01284	-1,19658
PGAP1	1,831579	6,361106	5,73243	0,001705	0,01284	-1,19681
VPS37B	0,850498	6,128468	5,732399	0,001705	0,01284	-1,19684
CADM1	0,994681	7,421162	5,729736	0,001709	0,012861	-1,19935
SFT2D1	-0,95948	6,394345	-5,72803	0,001711	0,012872	-1,20095
SLC5A8	2,943241	1,804954	5,727505	0,001712	0,012872	-1,20145
SPOCK2	0,746095	9,910456	5,724455	0,001716	0,012898	-1,20432
SERTAD3	-1,81212	4,131965	-5,72181	0,00172	0,012916	-1,20681
STX7	-0,98283	8,311386	-5,72148	0,001721	0,012916	-1,20712
IFI35	-1,1781	4,870879	-5,7188	0,001724	0,012938	-1,20965
AOC3	4,158915	2,079458	5,71778	0,001726	0,01294	-1,21061
MIS12	0,771774	7,514225	5,717308	0,001727	0,01294	-1,21105
TST	-3,35894	2,346136	-5,71663	0,001728	0,012941	-1,21169
HHIP	2,87625	4,097218	5,712239	0,001734	0,012963	-1,21583
ZNF26	1,1253	7,006769	5,711792	0,001735	0,012963	-1,21626
RPRD1B	1,009566	7,269976	5,710839	0,001736	0,012963	-1,21716
NAPB	0,907514	6,440515	5,709925	0,001737	0,012963	-1,21802
RPS21	0,694587	11,29435	5,709076	0,001738	0,012963	-1,21882
FKBP1B	-2,2049	1,435785	-5,70867	0,001739	0,012963	-1,21921
NUDT7	-2,2049	1,435785	-5,70867	0,001739	0,012963	-1,21921
SPRY3	-2,2049	1,435785	-5,70867	0,001739	0,012963	-1,21921
C1orf52	0,823395	7,089065	5,708277	0,00174	0,012963	-1,21957
PHLDA2	1,929691	6,106934	5,707823	0,00174	0,012963	-1,22
ZNF3	0,975597	5,559238	5,707599	0,001741	0,012963	-1,22021
PANK2	0,773248	7,915658	5,706818	0,001742	0,012964	-1,22095
DNPEP	-1,19692	5,9212	-5,70527	0,001744	0,012964	-1,22241
ADRB1	3,974277	2,51546	5,705263	0,001744	0,012964	-1,22242
KCNQ1OT1	1,939243	7,671958	5,704987	0,001744	0,012964	-1,22268
ALDH9A1	-1,09558	6,617826	-5,70331	0,001747	0,012975	-1,22427
FBXW7	0,754296	8,92538	5,702428	0,001748	0,012978	-1,22509
OR52N4	3,888741	1,944371	5,699889	0,001752	0,012999	-1,22749
GJB7	2,856619	2,818284	5,697677	0,001755	0,013016	-1,22958
GRAMD4	-2,59816	5,208529	-5,69643	0,001757	0,013023	-1,23076
KDELR2	-1,00573	7,279096	-5,69479	0,001759	0,013033	-1,23231
SLC35G3	5,076473	3,312213	5,694217	0,00176	0,013033	-1,23285
MRPL19	-0,80481	5,857264	-5,68957	0,001767	0,013077	-1,23725
PCSK2	3,052051	3,249334	5,688687	0,001768	0,01308	-1,23808
CTNNA1	-2,74757	6,260151	-5,68125	0,001779	0,013155	-1,24512
CDKN2AIP	0,780038	7,907415	5,680342	0,001781	0,013158	-1,24599
ZMYND15	-2,99812	2,02738	-5,67968	0,001782	0,013158	-1,24662
RPS3	0,879787	10,89518	5,677583	0,001785	0,013173	-1,2486
RABL2A	1,298227	6,66318	5,677019	0,001786	0,013173	-1,24913
CACNA1A	1,767911	5,19494	5,676503	0,001787	0,013173	-1,24962
POU2F2	0,98968	8,890004	5,673327	0,001791	0,013201	-1,25263
FOXJ3	0,796386	7,890258	5,67246	0,001793	0,013204	-1,25345
ZNF397	1,083069	7,227165	5,670467	0,001796	0,013219	-1,25535
MT1F	1,774573	5,570002	5,66936	0,001797	0,013219	-1,25639
MRPS36	-1,30234	5,863861	-5,66923	0,001797	0,013219	-1,25652
SYNPO2	3,025195	4,625881	5,666412	0,001802	0,013243	-1,25919

ZNF408	1,639693	4,349418	5,665694	0,001803	0,013244	-1,25987
FGD2	-1,00452	6,104284	-5,66208	0,001808	0,013273	-1,2633
HNRNPH3	0,823885	9,609281	5,661879	0,001809	0,013273	-1,2635
GOLIM4	-2,31009	6,656028	-5,66046	0,001811	0,013282	-1,26485
MERTK	-2,77398	1,915309	-5,65722	0,001816	0,013299	-1,26792
STARD5	-2,77398	1,915309	-5,65722	0,001816	0,013299	-1,26792
HLA-DMA	-2,74701	6,225914	-5,65713	0,001816	0,013299	-1,268
ANKHD1	1,979652	5,939041	5,655186	0,001819	0,013314	-1,26985
HAS3	3,563624	2,310133	5,646169	0,001833	0,013408	-1,27843
TRIM52	0,802275	7,913956	5,64345	0,001837	0,013432	-1,28102
FBXO10	1,403632	3,620112	5,642326	0,001839	0,013438	-1,28209
PPIA	0,95055	7,270124	5,640389	0,001842	0,013449	-1,28393
LGMMN	-1,89126	5,429367	-5,64008	0,001842	0,013449	-1,28422
MAF	-0,84974	8,475097	-5,63884	0,001844	0,013456	-1,2854
FHIT	2,642422	5,250512	5,637317	0,001846	0,013467	-1,28686
TLK2	1,503069	6,677402	5,634813	0,00185	0,013488	-1,28924
RPL5	0,759795	11,18622	5,633267	0,001853	0,013495	-1,29072
GADL1	2,709761	1,688214	5,633004	0,001853	0,013495	-1,29097
INPP4B	0,856445	7,801662	5,630245	0,001857	0,013519	-1,2936
RGS22	3,702377	3,153485	5,629363	0,001859	0,013522	-1,29444
MRAS	-3,85332	3,47461	-5,62809	0,001861	0,01353	-1,29565
SYNRG	0,738135	9,509666	5,625653	0,001865	0,013551	-1,29798
FOXK1	0,944101	8,341563	5,623146	0,001869	0,013572	-1,30037
C8orf82	-2,06356	3,805758	-5,62198	0,00187	0,013579	-1,30148
A4GALT	-2,57142	1,285708	-5,62087	0,001872	0,013585	-1,30254
HOMER3	-3,52265	2,094659	-5,61941	0,001874	0,013594	-1,30393
C17orf99	2,998791	3,101847	5,618284	0,001876	0,0136	-1,30501
ID1	3,787862	1,893931	5,615091	0,001881	0,01363	-1,30806
APC	-0,85548	7,776235	-5,6123	0,001886	0,013655	-1,31072
ARHGAP15	0,8164	7,576968	5,608541	0,001892	0,013692	-1,31432
PDHB	-1,08473	6,389649	-5,6067	0,001895	0,013706	-1,31608
BIRC3	0,704226	10,82348	5,606011	0,001896	0,013707	-1,31674
KCNE3	-4,72792	5,299743	-5,60486	0,001898	0,013713	-1,31784
COQ3	2,099909	5,203099	5,603809	0,001899	0,013719	-1,31885
SIDT2	-1,20818	6,277943	-5,60243	0,001902	0,013721	-1,32017
MBOAT7	-1,19269	6,686441	-5,60242	0,001902	0,013721	-1,32018
SMPD3	-2,92575	2,462876	-5,60157	0,001903	0,013724	-1,32099
TTC26	2,725858	4,583522	5,596627	0,001911	0,013774	-1,32573
LINC00476	1,479439	5,576311	5,59322	0,001916	0,013798	-1,32899
NR2F2	2,720119	4,862658	5,592325	0,001918	0,013798	-1,32985
FN3KRP	-1,17234	4,78241	-5,59206	0,001918	0,013798	-1,33011
TFRC	-1,58668	6,882951	-5,59162	0,001919	0,013798	-1,33052
HIST1H1C	-1,73837	5,670989	-5,59151	0,001919	0,013798	-1,33062
DTWD2	-3,42054	3,012568	-5,591	0,00192	0,013798	-1,33112
CD2	0,686048	9,960227	5,585411	0,001929	0,013849	-1,33648
HEATR5B	0,952415	6,826582	5,58506	0,00193	0,013849	-1,33681
ASF1A	1,196441	7,042247	5,583761	0,001932	0,013849	-1,33806
MATN1	3,397431	1,698715	5,583602	0,001932	0,013849	-1,33821
TCTE3	3,161656	3,378267	5,583291	0,001933	0,013849	-1,33851
ARHGAP22	-3,76914	2,658547	-5,58308	0,001933	0,013849	-1,33872
UBE2G1	0,777777	7,205128	5,581522	0,001936	0,013853	-1,34021
R3HDM1	0,728613	7,603382	5,581498	0,001936	0,013853	-1,34023

IFITM3	-3,85498	4,160969	-5,58054	0,001937	0,013857	-1,34115
WDR33	0,840228	8,334912	5,578712	0,00194	0,013857	-1,3429
FBXO6	-3,16278	2,58139	-5,57785	0,001942	0,013857	-1,34373
GCNT4	1,061972	6,724699	5,577642	0,001942	0,013857	-1,34393
RASGRP4	-2,49728	1,248642	-5,57753	0,001942	0,013857	-1,34404
USP9Y	1,162746	8,284892	5,576715	0,001944	0,013857	-1,34482
ZBTB7B	-0,9497	6,080145	-5,5761	0,001945	0,013857	-1,34542
PLD2	-2,63563	1,317815	-5,57567	0,001945	0,013857	-1,34582
ZNF688	0,802962	6,135018	5,575632	0,001945	0,013857	-1,34586
SCARF1	-2,26666	4,233065	-5,57521	0,001946	0,013857	-1,34627
LAPTM4A	-0,85469	10,22779	-5,57407	0,001948	0,013862	-1,34737
MAST4	1,053051	6,811292	5,573171	0,001949	0,013862	-1,34823
UBAC1	-0,78057	7,573664	-5,57305	0,00195	0,013862	-1,34835
MYO5C	2,398264	3,558071	5,572131	0,001951	0,013866	-1,34923
LGALS9	-3,30121	4,913238	-5,57051	0,001954	0,013878	-1,35078
MRPL41	-1,5788	5,713126	-5,56666	0,00196	0,013916	-1,35449
TUBB	-0,95449	8,256504	-5,56236	0,001967	0,013956	-1,35862
CA2	-1,19545	5,767322	-5,5621	0,001968	0,013956	-1,35887
MOCS3	1,559149	5,026168	5,560754	0,00197	0,013956	-1,36017
TBCE	1,649552	4,935082	5,560726	0,00197	0,013956	-1,36019
MAGEE1	1,036343	5,075094	5,560336	0,001971	0,013956	-1,36057
UNC5D	2,422262	3,267773	5,558608	0,001974	0,013968	-1,36223
SARNP	1,329096	5,880105	5,558202	0,001974	0,013968	-1,36262
ODF2	-0,87539	5,489801	-5,55752	0,001976	0,013969	-1,36328
EDF1	0,736017	8,026372	5,554461	0,001981	0,013984	-1,36623
FXR2	0,945061	6,252458	5,554364	0,001981	0,013984	-1,36632
HSPA1A	-0,88329	8,66242	-5,55418	0,001981	0,013984	-1,3665
POP4	-0,81402	6,402489	-5,55389	0,001982	0,013984	-1,36677
POU6F1	1,136464	3,782851	5,552186	0,001985	0,013996	-1,36842
TAX1BP3	-3,53984	3,210565	-5,55175	0,001985	0,013996	-1,36884
RNF175	1,650659	3,289436	5,55013	0,001988	0,014008	-1,3704
TMEM164	-2,65267	6,212701	-5,54812	0,001991	0,014025	-1,37233
ANK3	1,503315	7,657754	5,54691	0,001993	0,014028	-1,3735
C10orf67	3,408402	2,704201	5,546295	0,001995	0,014028	-1,3741
UIMC1	0,778797	7,23457	5,546103	0,001995	0,014028	-1,37428
UBXN2A	0,745973	6,662535	5,543421	0,001999	0,014028	-1,37687
TRAF3IP2	1,860221	4,864013	5,543308	0,002	0,014028	-1,37698
KIAA1217	3,659093	1,829547	5,542229	0,002001	0,014028	-1,37802
NUDT12	-1,52832	0,76416	-5,53855	0,002008	0,014028	-1,38157
ZNF876P	-1,52832	0,76416	-5,53855	0,002008	0,014028	-1,38157
EGOT	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
GREB1L	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
LHX3	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
NPNT	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
PLG	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
SLC47A2	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
STMN4	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
TBX18	1,528321	0,76416	5,538553	0,002008	0,014028	-1,38157
MMP9	-4,01632	8,100248	-5,53761	0,002009	0,014033	-1,38247
DOLK	-2,85408	2,288695	-5,5308	0,002021	0,014108	-1,38905
CLEC4E	-5,45316	5,931481	-5,52969	0,002023	0,014108	-1,39012
TIMP3	1,659442	4,155481	5,529582	0,002023	0,014108	-1,39023

DDX31	1,23242	5,810375	5,528485	0,002025	0,014114	-1,39129
RGL2	1,749765	6,392729	5,527469	0,002027	0,014114	-1,39227
FRAS1	2,597416	2,493696	5,527238	0,002027	0,014114	-1,3925
KLF11	-4,64116	4,094555	-5,52681	0,002028	0,014114	-1,39291
SCRG1	3,260453	2,737536	5,526218	0,002029	0,014114	-1,39348
TRIM69	1,127372	7,824709	5,524317	0,002032	0,014121	-1,39532
GNB2	-1,10208	6,808967	-5,52397	0,002033	0,014121	-1,39565
SUPT5H	0,802561	7,196121	5,523906	0,002033	0,014121	-1,39572
RHBDF1	3,658855	1,829427	5,522864	0,002035	0,014127	-1,39673
PIGM	0,886367	7,369782	5,514143	0,00205	0,014226	-1,40517
NCKIPSD	-2,86165	2,292481	-5,51208	0,002054	0,014244	-1,40716
SYK	-2,27582	6,689836	-5,51151	0,002055	0,014244	-1,40772
TPRG1	1,646269	5,228817	5,510032	0,002057	0,014248	-1,40915
FAM57B	3,321928	1,660964	5,510016	0,002057	0,014248	-1,40916
RPS27A	0,73519	11,02775	5,509188	0,002059	0,014251	-1,40997
FNTA	0,712059	7,51127	5,507394	0,002062	0,01426	-1,4117
RRS1	0,709937	7,589738	5,506694	0,002063	0,01426	-1,41238
POLR2J4	2,664784	1,999059	5,506305	0,002064	0,01426	-1,41276
NCOA4	-0,97134	9,013113	-5,50622	0,002064	0,01426	-1,41285
MGAT1	-0,86643	8,161827	-5,50551	0,002065	0,01426	-1,41354
RGS5	2,54183	4,485534	5,505084	0,002066	0,01426	-1,41394
NLRP3	-4,71319	3,797237	-5,49517	0,002084	0,014371	-1,42356
RASGEF1B	-0,86726	6,038017	-5,49493	0,002084	0,014371	-1,42379
TGFBI	-7,0809	6,505387	-5,49376	0,002086	0,014375	-1,42493
SCARNA5	2,325639	4,262555	5,493457	0,002087	0,014375	-1,42523
ZNF44	0,957084	6,479041	5,491225	0,002091	0,014391	-1,42739
DSTNP2	-1,51438	3,523593	-5,49051	0,002092	0,014391	-1,42809
RPL9	1,256004	8,386922	5,489889	0,002093	0,014391	-1,42869
GABRB2	2,543157	4,271578	5,489887	0,002093	0,014391	-1,42869
DVL1	-0,88968	5,103095	-5,48602	0,0021	0,014432	-1,43245
ZFP30	1,540458	5,904433	5,485067	0,002102	0,014436	-1,43338
PKD1L2	2,692272	1,346136	5,484522	0,002103	0,014436	-1,43391
UBE3D	1,902197	5,036895	5,483822	0,002104	0,014438	-1,43459
LHX9	3,055155	3,691529	5,483206	0,002105	0,014439	-1,43519
TOX	0,801809	7,02583	5,48245	0,002107	0,014441	-1,43592
CACNA2D4	1,067956	5,631419	5,481291	0,002109	0,014448	-1,43705
MT1X	2,671154	3,971207	5,48075	0,00211	0,014448	-1,43758
SLC2A8	-3,81981	2,683881	-5,4796	0,002112	0,014456	-1,4387
ANAPC1	1,19039	4,495341	5,47835	0,002114	0,014464	-1,43991
DCP1A	0,864421	7,238174	5,475585	0,002119	0,014492	-1,4426
CBX5	0,687364	8,663269	5,471173	0,002127	0,01454	-1,4469
GTF3A	0,891128	8,173407	5,469232	0,002131	0,014555	-1,44879
ZNF354C	0,786105	6,608787	5,468817	0,002132	0,014555	-1,44919
MYO1F	-1,06683	7,978009	-5,46713	0,002135	0,014569	-1,45084
LILRA6	-4,78287	3,391433	-5,466	0,002137	0,014573	-1,45193
FCF1	0,74907	8,144651	5,46517	0,002138	0,014573	-1,45275
01-dic	2,150404	2,075202	5,464979	0,002139	0,014573	-1,45293
MFSD10	-1,28544	5,654778	-5,4646	0,002139	0,014573	-1,4533
HIC1	0,967991	5,046746	5,463897	0,002141	0,014575	-1,45399
DOCK9	0,903903	7,652034	5,462675	0,002143	0,014582	-1,45518
CIAPIN1	0,969885	5,237896	5,462236	0,002144	0,014582	-1,45561
COG4	1,235185	6,850322	5,461204	0,002146	0,014587	-1,45661

FAM89B	-1,28967	5,701413	-5,46008	0,002148	0,014587	-1,45771
DNASE2	-1,90105	6,008416	-5,45964	0,002148	0,014587	-1,45814
TKT	-1,04447	8,621978	-5,45962	0,002149	0,014587	-1,45816
STK11IP	-1,40574	4,200156	-5,45856	0,00215	0,01459	-1,4592
ITGB8	1,807319	5,024399	5,458164	0,002151	0,01459	-1,45958
STK35	0,825168	7,197168	5,457642	0,002152	0,01459	-1,46009
BACH1	-1,01925	7,265042	-5,45535	0,002156	0,014612	-1,46232
IP6K1	1,143832	6,786553	5,454084	0,002159	0,014621	-1,46356
WDR18	-1,10508	5,214963	-5,45064	0,002165	0,014658	-1,46692
ACSL4	-0,94655	8,231693	-5,44975	0,002167	0,014659	-1,46779
CD37	0,806471	8,319859	5,449096	0,002168	0,014659	-1,46843
HEATR4	3,87478	2,270723	5,448378	0,002169	0,014659	-1,46913
TMEM147	-1,27545	6,651898	-5,44837	0,002169	0,014659	-1,46914
NPR3	3,820664	2,576998	5,44748	0,002171	0,01466	-1,47001
SMN2	2,356241	3,716357	5,447144	0,002172	0,01466	-1,47034
HHAT	1,708353	5,893607	5,440594	0,002184	0,014736	-1,47674
HKR1	1,549938	5,160699	5,435921	0,002193	0,014776	-1,48131
ZNF567	1,449875	6,13882	5,435378	0,002194	0,014776	-1,48184
LINC00470	4,247589	2,985448	5,43533	0,002194	0,014776	-1,48189
DDX42	0,776687	8,158389	5,435304	0,002194	0,014776	-1,48192
REEP3	-1,0424	7,485897	-5,42939	0,002205	0,014845	-1,4877
CTTNBP2NI	-1,45765	5,117965	-5,4279	0,002208	0,014857	-1,48917
ELMOD3	1,607641	4,542736	5,42719	0,00221	0,014859	-1,48986
PLAU	-4,72064	3,36032	-5,42652	0,002211	0,01486	-1,49052
FLVCR2	-3,68062	5,372995	-5,42545	0,002213	0,014867	-1,49157
RAB30	0,695748	7,312177	5,424858	0,002214	0,014868	-1,49215
ZDHHC7	-0,81362	8,024972	-5,421	0,002222	0,014895	-1,49593
CCNC	0,652192	7,870288	5,420961	0,002222	0,014895	-1,49597
NOVA1	2,802753	3,37034	5,419808	0,002224	0,014895	-1,4971
SSBP4	-1,0206	6,054469	-5,41967	0,002224	0,014895	-1,49723
ZNF77	2,055155	4,570696	5,419601	0,002224	0,014895	-1,4973
IL21R	1,038731	7,46582	5,419467	0,002224	0,014895	-1,49743
STRADA	2,070411	6,553721	5,418885	0,002226	0,014895	-1,498
PABPC3	1,083248	7,384116	5,414382	0,002234	0,014947	-1,50242
REEP5	-0,97806	8,868274	-5,4123	0,002238	0,014967	-1,50446
VAMP8	-1,643	7,271195	-5,40929	0,002244	0,014996	-1,50741
TIMM21	0,809159	6,807223	5,408981	0,002245	0,014996	-1,50772
LAT2	-0,82989	7,150081	-5,40639	0,00225	0,015022	-1,51027
SFMBT2	1,026124	6,969853	5,405083	0,002252	0,015032	-1,51155
SLC26A6	-2,29584	3,588564	-5,40437	0,002254	0,015035	-1,51225
PAQR7	-2,57899	1,817815	-5,40258	0,002257	0,015051	-1,51401
MAPK8	-0,95501	5,624513	-5,40088	0,002261	0,015066	-1,51568
SAC3D1	-3,65742	3,376662	-5,40003	0,002262	0,01507	-1,51651
KIAA1143	0,841773	7,680458	5,398877	0,002265	0,015078	-1,51765
CTIF	-1,99243	0,996213	-5,39648	0,002269	0,015103	-1,52001
ITGA11	1,903475	3,341712	5,395685	0,002271	0,015106	-1,52079
MAU2	1,022669	7,600842	5,394668	0,002273	0,015112	-1,52179
EIF1AY	0,658456	8,253983	5,392406	0,002277	0,015135	-1,52402
DNMBP	-1,38537	3,069114	-5,39173	0,002279	0,015137	-1,52469
PRPF4	1,028163	6,118663	5,390582	0,002281	0,015145	-1,52582
GUCY1A2	2,11571	5,854085	5,389213	0,002284	0,015156	-1,52716
ASGR1	-2,39899	5,838151	-5,38445	0,002293	0,015212	-1,53186

CHKB	-3,72543	2,636692	-5,38073	0,002301	0,015254	-1,53552
MKNK1	-1,45794	6,866372	-5,37922	0,002304	0,015267	-1,53701
POLB	-0,92305	6,222361	-5,37779	0,002307	0,015278	-1,53842
TMEM242	-1,47503	4,823703	-5,37656	0,002309	0,015278	-1,53964
AEN	1,304394	5,851548	5,376276	0,00231	0,015278	-1,53991
HOXA13	3,145802	3,37034	5,376261	0,00231	0,015278	-1,53993
ZFH3	-1,45874	6,333172	-5,37217	0,002318	0,015325	-1,54397
PLXNA2	1,265217	5,09023	5,37116	0,00232	0,015331	-1,54496
SOD1	0,673498	8,535379	5,369558	0,002323	0,015331	-1,54654
PDE4A	-1,3236	5,932267	-5,36947	0,002323	0,015331	-1,54663
FAM110A	-1,48131	4,393262	-5,36925	0,002324	0,015331	-1,54685
PARVG	-0,84159	6,381471	-5,36908	0,002324	0,015331	-1,54701
OGFOD1	0,965126	6,795413	5,366472	0,00233	0,015359	-1,54959
NAMPT	-1,01749	8,19021	-5,36322	0,002336	0,015395	-1,5528
BRD1	0,739095	7,787219	5,361885	0,002339	0,015406	-1,55412
GSR	-0,79793	8,22895	-5,35844	0,002346	0,015445	-1,55753
ABHD5	-0,97036	6,874868	-5,35408	0,002355	0,015497	-1,56184
GNPDA1	-0,94097	7,683329	-5,35358	0,002356	0,015497	-1,56233
SCN2A	1,959091	3,987001	5,352973	0,002357	0,015498	-1,56294
PARVB	-2,17767	4,709716	-5,3508	0,002362	0,015519	-1,56508
ALAS1	-2,18327	6,059786	-5,35031	0,002363	0,015519	-1,56557
UBAP1	0,787981	6,310522	5,347885	0,002368	0,015544	-1,56797
PRRC2B	0,72672	8,655905	5,347466	0,002369	0,015544	-1,56839
CCDC47	-1,44434	7,309675	-5,34686	0,00237	0,015545	-1,56899
GGCT	-1,02244	6,091868	-5,34551	0,002373	0,015556	-1,57032
DDX23	0,859377	7,89354	5,34478	0,002374	0,015559	-1,57105
ENO4	3,464964	2,839791	5,342506	0,002379	0,015582	-1,5733
MPZL2	1,424892	4,942954	5,34059	0,002383	0,015601	-1,5752
SH3YL1	0,856541	6,810202	5,340083	0,002384	0,015601	-1,5757
S1PR2	-2,29961	4,841187	-5,33955	0,002385	0,015601	-1,57623
ARRDC4	-4,48868	4,180125	-5,33888	0,002387	0,015603	-1,57689
PLA2G7	-5,78407	7,351103	-5,33829	0,002388	0,015604	-1,57748
PLEK	-0,91799	8,784917	-5,33731	0,00239	0,015609	-1,57845
TRIM28	0,714496	6,285587	5,336893	0,002391	0,015609	-1,57886
KHDRBS3	2,312213	2,930082	5,335068	0,002395	0,01561	-1,58067
KBTBD6	0,961469	5,895423	5,334344	0,002396	0,01561	-1,58139
MECP2	0,791038	8,795507	5,334099	0,002397	0,01561	-1,58163
ATG3	-0,84045	8,126987	-5,33404	0,002397	0,01561	-1,58169
GNL2	-0,72061	7,466732	-5,33398	0,002397	0,01561	-1,58175
LRRTM2	4,366157	3,044733	5,333255	0,002398	0,01561	-1,58247
ZNF184	0,792119	5,984177	5,333142	0,002399	0,01561	-1,58258
DDX6	0,676066	10,31462	5,32803	0,002409	0,015667	-1,58766
KDSR	0,724287	7,831406	5,327757	0,00241	0,015667	-1,58793
YWHAH	-1,10451	7,233883	-5,32743	0,002411	0,015667	-1,58825
TET2	-0,71384	7,781166	-5,324	0,002418	0,015702	-1,59166
FPGT-TNNI3	2,578643	4,365594	5,323162	0,00242	0,015702	-1,59249
ZFAND1	0,76698	7,253715	5,322399	0,002421	0,015702	-1,59325
PLB1	3,497284	2,081976	5,322154	0,002422	0,015702	-1,59349
CATSPERB	2,692668	3,867081	5,321916	0,002422	0,015702	-1,59373
NECAB1	2,021938	4,815864	5,321198	0,002424	0,015702	-1,59444
ZNF697	-3,6308	2,589375	-5,32119	0,002424	0,015702	-1,59445
SLC31A1	-3,74058	5,447395	-5,31836	0,00243	0,015734	-1,59726

PTPN18	-1,31044	6,526758	-5,31539	0,002436	0,015764	-1,60022
PIR	-4,36951	3,120539	-5,31475	0,002438	0,015764	-1,60085
ARMC6	-2,57899	2,151148	-5,31467	0,002438	0,015764	-1,60094
TLN1	-0,73624	8,771015	-5,31381	0,00244	0,015764	-1,60178
AP2S1	-2,13074	7,111086	-5,31313	0,002441	0,015764	-1,60247
POLR2L	-0,91452	6,309809	-5,31279	0,002442	0,015764	-1,6028
HINT1	0,808126	10,79248	5,312577	0,002442	0,015764	-1,60302
CDC20B	2,977186	3,211901	5,311943	0,002444	0,015766	-1,60365
SENP1	0,831922	6,967203	5,310385	0,002447	0,01578	-1,6052
CLIC2	-1,07943	4,676179	-5,30838	0,002451	0,015801	-1,60719
SNORD99	3,449945	1,724972	5,307396	0,002454	0,015807	-1,60817
SNHG15	0,935343	5,661219	5,304953	0,002459	0,015834	-1,6106
PFDN5	0,860089	10,09919	5,303261	0,002463	0,01585	-1,61229
OS9	-1,43324	6,800687	-5,30151	0,002466	0,015868	-1,61403
TG	2,440643	1,553655	5,296388	0,002477	0,015932	-1,61914
PHLDB2	1,582975	5,914096	5,295806	0,002479	0,015932	-1,61972
BRCA2	-1,98062	5,132051	-5,29536	0,00248	0,015932	-1,62017
NSUN5P1	2,155101	3,995846	5,29398	0,002483	0,015939	-1,62154
CSTF3	1,195601	7,48858	5,293328	0,002484	0,015939	-1,62219
ZNF609	0,802415	7,479414	5,293067	0,002485	0,015939	-1,62245
DENND5B	1,418631	5,037217	5,292419	0,002486	0,015939	-1,6231
ZRANB1	0,73578	7,560549	5,292289	0,002486	0,015939	-1,62323
RPL37	0,685426	11,6901	5,289158	0,002493	0,015976	-1,62635
SGIP1	2,841006	3,143811	5,286413	0,002499	0,016008	-1,62909
LDB3	3,532684	1,766342	5,285409	0,002502	0,01601	-1,63009
NUP210L	2,28875	2,339362	5,285252	0,002502	0,01601	-1,63025
ST6GAL1	0,672994	9,354773	5,28166	0,00251	0,016043	-1,63384
SLC25A13	-1,00536	5,049127	-5,28154	0,00251	0,016043	-1,63396
SH2D1A	0,888063	8,619835	5,281377	0,002511	0,016043	-1,63412
GSN	-4,72403	6,356348	-5,28087	0,002512	0,016043	-1,63462
DAPP1	-0,72898	8,605432	-5,27808	0,002518	0,016075	-1,63741
MRT04	1,010695	5,217491	5,276839	0,002521	0,016081	-1,63866
ACE	-2,47168	1,76416	-5,27668	0,002521	0,016081	-1,63882
PKHD1	4,035855	3,320225	5,273786	0,002527	0,016112	-1,64171
CCNG1	0,772953	7,631542	5,273402	0,002528	0,016112	-1,64209
KCNJ4	3,257713	1,628857	5,272966	0,002529	0,016112	-1,64253
GRIA3	2,107309	1,386988	5,271837	0,002532	0,016121	-1,64366
RBBP5	1,033288	6,271898	5,271202	0,002533	0,016122	-1,64429
SRSF8	0,850069	8,659773	5,270356	0,002535	0,016127	-1,64514
GRK5	0,899308	7,227931	5,268402	0,00254	0,016148	-1,64709
NBEA	1,060064	4,963102	5,266749	0,002543	0,016164	-1,64875
ZFP82	1,794347	4,456413	5,263909	0,00255	0,016198	-1,65159
RPL32	0,642917	11,39374	5,263117	0,002551	0,016202	-1,65239
TAC3	4,116611	2,058306	5,262465	0,002553	0,016203	-1,65304
ANKRD22	-4,10385	4,775235	-5,26203	0,002554	0,016203	-1,65348
LILRB4	-5,93156	5,513733	-5,26094	0,002556	0,016211	-1,65457
LMNB1	-0,8942	7,079323	-5,25745	0,002564	0,016254	-1,65807
PARP1	0,691874	8,295445	5,256083	0,002567	0,01626	-1,65943
IGF2R	-1,09764	9,258291	-5,25606	0,002567	0,01626	-1,65946
PRMT7	0,985569	5,69983	5,254114	0,002572	0,016267	-1,66141
PIK3CG	0,858898	6,579853	5,253767	0,002573	0,016267	-1,66176
TIMM9	0,871226	6,558454	5,252435	0,002576	0,016267	-1,66309

PBOV1	2,376428	1,521547	5,252319	0,002576	0,016267	-1,66321
IL6	2,376428	1,521547	5,252319	0,002576	0,016267	-1,66321
IMPACT	-1,35864	6,201063	-5,25209	0,002577	0,016267	-1,66344
GATA2	-1,22818	7,029425	-5,25201	0,002577	0,016267	-1,66351
HSD17B2	3,150404	1,908535	5,249775	0,002582	0,016292	-1,66576
MSL2	0,747662	8,4195	5,24825	0,002585	0,016305	-1,66729
DYRK1A	0,723197	9,29641	5,247861	0,002586	0,016305	-1,66768
HFE	-3,67103	2,363836	-5,2468	0,002589	0,016314	-1,66875
CNKSRR2	1,530427	6,202368	5,246066	0,00259	0,016316	-1,66948
CPB1	3,114765	1,890716	5,2456	0,002591	0,016316	-1,66995
RPL35A	0,6297	11,49612	5,244663	0,002594	0,016316	-1,67089
HCAR2	-3,28599	2,750306	-5,2446	0,002594	0,016316	-1,67095
NEK5	4,118163	3,392415	5,243783	0,002596	0,016321	-1,67177
NMI	-0,76737	8,31492	-5,24267	0,002598	0,01633	-1,67289
CD8A	0,663698	8,651848	5,238434	0,002608	0,016384	-1,67715
MRPS33	0,867902	7,35043	5,234621	0,002617	0,016433	-1,68098
GPSM2	1,685388	5,274378	5,23283	0,002621	0,016445	-1,68278
FBXL17	0,875992	7,678896	5,232799	0,002621	0,016445	-1,68281
NRBF2	-0,91107	6,868044	-5,22895	0,00263	0,016488	-1,68669
EVI5	-1,42475	6,644666	-5,22886	0,00263	0,016488	-1,68678
IRF5	-2,23415	5,065569	-5,22707	0,002635	0,016507	-1,68858
NEU1	-1,68116	6,406642	-5,22624	0,002636	0,016512	-1,68941
KIF1B	-1,95656	6,080869	-5,22278	0,002645	0,016555	-1,69289
ATP10D	-0,88687	6,94314	-5,22105	0,002649	0,016573	-1,69463
C9orf64	-1,06878	6,058749	-5,2188	0,002654	0,016599	-1,6969
PRIM1	1,647275	5,562553	5,217309	0,002658	0,016614	-1,6984
TPBG	2,297261	4,570893	5,215882	0,002661	0,016625	-1,69984
EFTUD2	-0,92197	6,731307	-5,21559	0,002662	0,016625	-1,70014
ESR1	1,560882	4,673014	5,214009	0,002665	0,016641	-1,70173
SAFB	0,904654	8,665007	5,212283	0,00267	0,016659	-1,70347
RNF113A	0,859632	6,384909	5,209012	0,002677	0,016701	-1,70677
PPP1R13B	-0,95691	3,578189	-5,2049	0,002687	0,016755	-1,71092
GBA2	-0,97584	5,133651	-5,20171	0,002695	0,016795	-1,71414
RCAN3	0,699917	9,134878	5,197583	0,002705	0,016833	-1,71831
ZNF548	1,39772	6,646417	5,1975	0,002705	0,016833	-1,71839
ADAP2	-3,58998	4,743489	-5,19743	0,002705	0,016833	-1,71846
TPMT	-3,27767	4,899286	-5,19724	0,002706	0,016833	-1,71866
SELL	0,724469	9,615816	5,193495	0,002715	0,016882	-1,72244
FCRL4	2,082643	4,312582	5,192476	0,002717	0,01689	-1,72347
LRRC1	2,084572	4,368046	5,191742	0,002719	0,016894	-1,72421
SUPV3L1	0,785406	6,34765	5,189294	0,002725	0,016923	-1,72669
GLRX2	-0,65667	6,840696	-5,18864	0,002727	0,016926	-1,72735
CEP68	0,710414	7,241223	5,187882	0,002728	0,016927	-1,72812
ZNF708	0,736161	7,164888	5,18759	0,002729	0,016927	-1,72841
ZNF251	1,846903	4,957881	5,186072	0,002733	0,016942	-1,72995
CETN3	0,832916	7,985614	5,184696	0,002736	0,016956	-1,73134
ITGA7	2,758708	2,379354	5,183936	0,002738	0,01696	-1,73211
ZKSCAN5	0,891099	5,564917	5,182853	0,002741	0,016967	-1,7332
UHRF1BP1	-1,47782	4,960983	-5,18248	0,002742	0,016967	-1,73359
AP5B1	-2,01919	4,630475	-5,18148	0,002744	0,016975	-1,7346
CLDND1	0,782085	7,995148	5,180043	0,002748	0,016984	-1,73605
CDH2	2,206817	4,746495	5,179913	0,002748	0,016984	-1,73618

FAR1	-1,07459	8,519587	-5,17921	0,00275	0,016987	-1,73689
KIAA0319L	0,855788	7,683127	5,177512	0,002754	0,017006	-1,73861
GAL3ST4	1,74294	2,066457	5,176298	0,002757	0,017017	-1,73984
ADCY9	-3,18281	2,893703	-5,17562	0,002759	0,01702	-1,74053
UBXN1	0,726573	8,997508	5,174957	0,00276	0,017022	-1,7412
ITIH5	2,900917	2,312112	5,174249	0,002762	0,017022	-1,74192
LIPH	3,264083	2,160362	5,174	0,002763	0,017022	-1,74217
PAPPA2	4,275251	3,332613	5,1716	0,002769	0,017051	-1,74461
PEPD	-1,70337	6,403807	-5,17069	0,002771	0,017058	-1,74553
HMGNS	1,968241	6,068736	5,168339	0,002777	0,017087	-1,74791
DUS4L	0,872394	6,033752	5,165718	0,002783	0,017119	-1,75057
B3GNT5	-4,85059	4,325443	-5,16394	0,002788	0,017139	-1,75238
PNLIP	4,12664	2,06332	5,16217	0,002792	0,017159	-1,75417
TGFBR3	0,953437	8,766478	5,159396	0,002799	0,017195	-1,75699
GTF3C4	0,761705	7,716293	5,156173	0,002807	0,017236	-1,76026
CNOT2	0,655689	8,038995	5,15574	0,002808	0,017236	-1,7607
CAMTA2	-1,44725	5,47402	-5,14988	0,002823	0,017315	-1,76666
ITM2A	0,679275	8,513747	5,149737	0,002823	0,017315	-1,7668
RPS11	0,684608	11,25728	5,147439	0,002829	0,017343	-1,76914
GPR157	-3,96765	3,317157	-5,14368	0,002839	0,017394	-1,77297
NPM1	0,687442	10,07339	5,14287	0,002841	0,017399	-1,77379
BTG2	-0,86388	8,645726	-5,13845	0,002852	0,017455	-1,77829
TRIOBP	-0,75214	6,115602	-5,13836	0,002853	0,017455	-1,77839
MBD2	-0,84184	8,70281	-5,13367	0,002865	0,017521	-1,78316
ZNF862	1,146762	6,198086	5,132441	0,002868	0,017533	-1,78441
ELF3	2,74294	2,899791	5,131498	0,00287	0,017541	-1,78538
TMEM33	-0,73926	7,989399	-5,12837	0,002878	0,017579	-1,78857
FGD6	-1,38034	4,39993	-5,12813	0,002879	0,017579	-1,78881
RPS28	0,748822	10,84859	5,125552	0,002886	0,017612	-1,79144
CAMSAP2	-1,31095	6,380698	-5,12294	0,002893	0,017637	-1,7941
OLR1	-5,96322	4,314945	-5,12272	0,002893	0,017637	-1,79433
RALGPS2	0,756278	7,628851	5,122005	0,002895	0,017637	-1,79506
ATG2B	0,842107	7,56855	5,120977	0,002898	0,017637	-1,79611
NBN	-1,01092	8,019381	-5,12054	0,002899	0,017637	-1,79655
SLC27A4	-3,60459	2,576273	-5,12047	0,002899	0,017637	-1,79662
TMEM186	1,122061	6,012126	5,11948	0,002902	0,017637	-1,79764
P2RY8	0,868311	7,859873	5,119046	0,002903	0,017637	-1,79808
KCNN1	2,988595	1,494297	5,118737	0,002904	0,017637	-1,79839
EGF	2,988595	1,827631	5,118737	0,002904	0,017637	-1,79839
SEC14L4	2,988595	1,827631	5,118737	0,002904	0,017637	-1,79839
ARHGEF10	3,250019	2,681651	5,116808	0,002909	0,017661	-1,80036
TMPRSS11H	3,192948	3,458128	5,116045	0,002911	0,017665	-1,80114
RHOBTB2	-3,07507	2,644844	-5,11256	0,00292	0,017712	-1,80471
RHOT1	-0,65518	7,753214	-5,11218	0,002921	0,017712	-1,80509
ANO10	-3,24094	3,061111	-5,11051	0,002925	0,017731	-1,8068
ACAP2	-0,81859	8,72544	-5,10831	0,002931	0,017755	-1,80904
ABHD6	-0,8207	4,281921	-5,10793	0,002932	0,017755	-1,80943
PCID2	0,635687	8,154516	5,107604	0,002933	0,017755	-1,80977
RNF139	-0,70245	6,775627	-5,10627	0,002937	0,017769	-1,81114
BCL11A	0,704781	8,223927	5,103941	0,002943	0,017799	-1,81352
PTCHD1	3,943241	1,97162	5,100371	0,002952	0,017843	-1,81717
P2RX1	-1,43307	3,157177	-5,10017	0,002953	0,017843	-1,81738

ZNF761	1,230066	6,261437	5,099518	0,002955	0,017843	-1,81805
CAPG	-5,51684	5,261017	-5,0989	0,002956	0,017843	-1,81868
SEMA6D	3,517628	2,815455	5,098381	0,002958	0,017843	-1,81921
PRDX3	-1,97227	7,385317	-5,09785	0,002959	0,017843	-1,81975
DZIP3	0,870043	7,441917	5,097087	0,002961	0,017843	-1,82053
BIRC2	1,024138	8,968065	5,097001	0,002961	0,017843	-1,82062
DUSP28	1,231248	5,413599	5,09697	0,002961	0,017843	-1,82065
RABIF	-1,95711	5,14167	-5,09641	0,002963	0,017844	-1,82122
GPR137C	2,476657	4,912451	5,095605	0,002965	0,01785	-1,82205
SAP30L	0,76884	7,936492	5,092354	0,002974	0,017891	-1,82538
TSEN2	1,74344	4,140838	5,0921	0,002974	0,017891	-1,82564
TIMM17A	-0,69594	7,075065	-5,09104	0,002977	0,017901	-1,82673
CCT6B	3,405894	3,856091	5,089244	0,002982	0,017922	-1,82857
SERTAD4	3,683607	4,38004	5,088557	0,002984	0,017926	-1,82927
CCDC91	0,680852	8,910817	5,086475	0,00299	0,017952	-1,83141
MEF2D	0,795873	7,808456	5,085245	0,002993	0,017955	-1,83267
PIGP	1,265899	6,548524	5,085127	0,002993	0,017955	-1,83279
CD58	-2,23789	6,171343	-5,08491	0,002994	0,017955	-1,83301
VCL	-1,4534	6,649016	-5,08265	0,003	0,017984	-1,83533
CEP19	1,68518	5,297849	5,081802	0,003002	0,017988	-1,8362
HEMK1	1,163558	6,525773	5,081511	0,003003	0,017988	-1,8365
LTA	1,526692	5,788255	5,079834	0,003008	0,018001	-1,83822
IL4I1	-4,46678	3,674034	-5,07978	0,003008	0,018001	-1,83828
RAB21	0,770812	9,553641	5,078496	0,003011	0,018008	-1,8396
RNF144A	1,063024	6,177058	5,078431	0,003012	0,018008	-1,83966
CD7	1,480741	5,922347	5,077341	0,003015	0,018018	-1,84078
MZT2B	1,017834	7,700436	5,075377	0,00302	0,018042	-1,8428
ZBTB6	1,17615	6,077945	5,07477	0,003022	0,018045	-1,84342
SLC35E2B	0,886402	6,465224	5,072275	0,003029	0,018078	-1,84599
IKBKE	-0,86046	5,510096	-5,07055	0,003033	0,018099	-1,84776
ZNF789	-1,21385	2,821543	-5,06983	0,003035	0,018103	-1,8485
ZFP36	-0,89303	8,690697	-5,06922	0,003037	0,018105	-1,84912
C1orf35	0,802339	6,274767	5,068217	0,00304	0,018109	-1,85016
MTCH2	-0,85742	7,847049	-5,06808	0,00304	0,018109	-1,8503
S1PR5	0,847556	8,057799	5,06742	0,003042	0,018112	-1,85098
UGT2B11	2,486942	3,643362	5,0658	0,003046	0,018131	-1,85264
GNG2	0,768833	8,424758	5,063558	0,003053	0,018161	-1,85495
CAMK2D	0,664107	7,862535	5,061027	0,00306	0,018192	-1,85755
RORA	0,7121	9,664419	5,060759	0,003061	0,018192	-1,85783
SUSD3	0,710086	6,469502	5,060162	0,003062	0,018194	-1,85844
RNF13	-0,79382	7,709078	-5,05922	0,003065	0,018198	-1,85941
FERMT1	2,722008	3,417646	5,05857	0,003067	0,018198	-1,86008
PMF1	-1,60125	4,455885	-5,05816	0,003068	0,018198	-1,8605
FAM102A	0,840116	10,0176	5,058096	0,003068	0,018198	-1,86057
ING2	-0,93163	7,176876	-5,05712	0,003071	0,018206	-1,86158
CACNA1E	3,559827	2,113247	5,053471	0,003081	0,018259	-1,86533
RPL36AL	0,641913	10,10628	5,049892	0,003091	0,018304	-1,86902
ITPK1-AS1	3,337697	2,197169	5,049428	0,003092	0,018304	-1,8695
RNF183	3,337697	2,197169	5,049428	0,003092	0,018304	-1,8695
UGT3A1	2,698396	4,674958	5,047897	0,003097	0,018322	-1,87108
C16orf72	0,924149	7,608583	5,043731	0,003108	0,018384	-1,87538
09-mar	0,916359	7,057975	5,043164	0,00311	0,018386	-1,87596

WTIP	3,354914	3,539111	5,04134	0,003115	0,018409	-1,87784
MRPL45	0,844235	7,395569	5,040867	0,003117	0,018409	-1,87833
HCG18	0,840173	7,684072	5,040405	0,003118	0,018409	-1,87881
ARIH2	0,771111	8,273284	5,036131	0,00313	0,018474	-1,88322
DGKH	-1,50586	6,474473	-5,03378	0,003137	0,018498	-1,88565
RPS8	0,609625	11,93657	5,033356	0,003138	0,018498	-1,88608
CD19	1,307441	6,062938	5,033297	0,003138	0,018498	-1,88615
CLUAP1	1,187207	6,395406	5,032621	0,00314	0,018502	-1,88684
AP1AR	-0,64353	7,831673	-5,03139	0,003144	0,018515	-1,88812
SETD5	0,759458	9,796663	5,029315	0,00315	0,018543	-1,89026
CBLB	0,822739	7,730934	5,027313	0,003155	0,018569	-1,89233
BMP2K	-1,17896	6,531771	-5,02616	0,003159	0,018574	-1,89352
JMY	0,948372	8,317244	5,026131	0,003159	0,018574	-1,89355
RELT	-1,67844	4,803148	-5,02532	0,003161	0,01858	-1,89439
ZNF445	1,177508	6,449777	5,024091	0,003165	0,018593	-1,89566
IL18R1	0,805012	6,128235	5,023128	0,003168	0,018602	-1,89666
CCDC15	2,030405	5,512487	5,020812	0,003174	0,018633	-1,89905
NRAS	-0,88095	7,34576	-5,01951	0,003178	0,018642	-1,9004
PRPS2	-1,4516	5,63906	-5,01942	0,003178	0,018642	-1,9005
OR4N2	2,797439	1,92704	5,016521	0,003187	0,018684	-1,90349
ZNF141	1,152902	5,679929	5,013894	0,003195	0,018721	-1,90621
TWF2	-1,35511	7,130264	-5,01308	0,003197	0,018727	-1,90706
G6PD	-3,57223	3,250222	-5,01227	0,003199	0,018733	-1,9079
SKAP1	0,631814	7,820749	5,009214	0,003208	0,018775	-1,91106
HS1BP3	-2,57929	3,289647	-5,00894	0,003209	0,018775	-1,91134
GRIP1	1,960139	3,90719	5,007362	0,003214	0,01879	-1,91298
SNRPD2	0,714638	9,147368	5,007203	0,003214	0,01879	-1,91315
LIFR	3,840533	3,448588	5,006076	0,003218	0,018801	-1,91432
IQCE	2,261444	6,117812	5,005148	0,00322	0,018809	-1,91528
ZNF189	1,085644	6,488435	5,001503	0,003231	0,018865	-1,91906
RNF145	0,668105	8,508331	5,000786	0,003233	0,018869	-1,9198
ARFIP1	-1,26068	6,681609	-4,99969	0,003236	0,018877	-1,92094
G2E3	0,735761	7,616448	4,999471	0,003237	0,018877	-1,92117
GLRX	-1,39874	7,358996	-4,99685	0,003245	0,018914	-1,92388
FANCF	1,094386	6,275969	4,994888	0,003251	0,018941	-1,92592
DHRS7B	-3,39817	3,247037	-4,99369	0,003254	0,018954	-1,92717
ACP5	-5,12562	4,83193	-4,99295	0,003257	0,018958	-1,92793
DTNA	1,629356	4,419272	4,992553	0,003258	0,018958	-1,92835
MAK16	1,053876	6,671792	4,991844	0,00326	0,018961	-1,92909
DNAJC30	1,478913	5,935734	4,991501	0,003261	0,018961	-1,92944
RPP25	-2,22727	1,975292	-4,99102	0,003262	0,018961	-1,92994
ALDH3A2	-1,12405	6,630112	-4,99056	0,003264	0,018962	-1,93041
LRRC3B	3,433069	2,049868	4,986341	0,003276	0,019028	-1,9348
OR7A17	2,676582	1,866612	4,984437	0,003282	0,019053	-1,93678
GRK4	2,705888	4,555387	4,983761	0,003284	0,019057	-1,93749
DPP6	3,125737	2,229535	4,98332	0,003286	0,019057	-1,93794
CLIP1	-0,6457	9,19169	-4,98277	0,003287	0,019059	-1,93851
NFIA	0,916384	7,057953	4,981588	0,003291	0,019072	-1,93975
SAFB2	0,613455	9,318839	4,979707	0,003297	0,019096	-1,9417
KCTD18	0,802016	5,788944	4,979329	0,003298	0,019096	-1,9421
YPEL4	-2,89608	2,448042	-4,97778	0,003302	0,019098	-1,9437
RPS4X	0,770762	11,1976	4,977689	0,003303	0,019098	-1,9438

PPME1	0,730711	6,287118	4,97762	0,003303	0,019098	-1,94387
CALCOCO1	0,720496	6,457688	4,977425	0,003304	0,019098	-1,94408
EFHC1	1,751333	5,660279	4,976596	0,003306	0,019105	-1,94494
RAE1	0,732882	7,331574	4,974824	0,003311	0,019128	-1,94678
FIP1L1	0,692372	8,969728	4,972994	0,003317	0,019151	-1,94869
CCL2	-2,46542	7,55629	-4,97269	0,003318	0,019151	-1,94901
EHD1	0,627332	7,997017	4,971839	0,003321	0,019158	-1,94989
ALDH7A1	2,376313	3,490453	4,968783	0,00333	0,019197	-1,95308
CXCR4	0,653821	10,69637	4,968568	0,003331	0,019197	-1,9533
CDKN2C	-2,34325	1,699945	-4,96831	0,003331	0,019197	-1,95357
CD82	1,554761	6,510451	4,96727	0,003335	0,019207	-1,95465
SLAMF1	1,107544	6,749178	4,964434	0,003343	0,019245	-1,95761
MAFK	0,70316	5,646129	4,964273	0,003344	0,019245	-1,95778
KAT6A	0,734429	9,910489	4,96368	0,003346	0,019248	-1,9584
MRPL36	0,805824	5,402442	4,961958	0,003351	0,01927	-1,96019
KIF18A	-2,54795	1,802297	-4,96126	0,003353	0,019275	-1,96092
PSMD8	-0,7052	7,480041	-4,95872	0,003361	0,019313	-1,96357
ZYX	-2,53131	5,448034	-4,95726	0,003366	0,01933	-1,96509
ZNF362	0,70697	6,062373	4,956858	0,003367	0,01933	-1,96551
C10orf111	2,302297	1,151148	4,955529	0,003371	0,01933	-1,9669
SLC18A2	-2,3023	1,151148	-4,95553	0,003371	0,01933	-1,9669
TREM1	-2,3023	1,151148	-4,95553	0,003371	0,01933	-1,9669
LRRC17	3,48733	2,850975	4,955135	0,003372	0,01933	-1,96731
CC2D2B	3,417227	3,677577	4,953739	0,003377	0,019347	-1,96877
SH3GL1	-0,97814	5,925348	-4,95201	0,003382	0,01937	-1,97058
RPL37A	0,675908	12,26517	4,946544	0,003399	0,01946	-1,97629
FXYP6	-2,57427	2,287135	-4,94556	0,003402	0,01947	-1,97731
SLC35A5	-1,74056	5,727691	-4,94432	0,003406	0,019484	-1,97861
PRICKLE1	1,588473	4,296835	4,942403	0,003412	0,019511	-1,98061
ZNF451	0,732168	8,871038	4,941474	0,003415	0,019517	-1,98159
CDH4	3,257713	1,96219	4,94119	0,003416	0,019517	-1,98188
APOL6	-0,68823	10,03152	-4,94067	0,003418	0,019519	-1,98243
FAM13A-A5	-0,84561	5,331917	-4,94002	0,00342	0,019519	-1,98311
PEX11B	0,65924	6,543571	4,939586	0,003421	0,019519	-1,98356
EFHD2	-1,09379	7,818205	-4,93906	0,003423	0,019519	-1,98412
HECW2	2,907624	3,372108	4,938909	0,003423	0,019519	-1,98427
SLITRK4	1,103477	3,984808	4,938186	0,003426	0,019524	-1,98503
RFX3	0,918586	7,461664	4,937063	0,003429	0,019537	-1,9862
CD247	0,674323	9,723568	4,93649	0,003431	0,019539	-1,9868
VDR	-3,32022	4,587229	-4,93525	0,003435	0,019554	-1,9881
CAT	-1,33903	7,403493	-4,9347	0,003437	0,019554	-1,98868
SRGN	-0,70612	11,02757	-4,93436	0,003438	0,019554	-1,98903
NGDN	0,658816	8,66013	4,931481	0,003447	0,019599	-1,99204
CCBE1	2,854081	1,42704	4,93061	0,00345	0,019607	-1,99296
TNFRSF1A	-1,54735	6,686935	-4,92577	0,003465	0,019687	-1,99802
OSBPL6	1,685997	4,145295	4,924166	0,00347	0,019709	-1,99971
AP1S1	-2,84053	2,281921	-4,92115	0,00348	0,019756	-2,00287
ZNF605	1,013196	7,085892	4,919959	0,003484	0,01977	-2,00412
NRG4	2,904749	1,452374	4,918985	0,003487	0,019773	-2,00514
LYAR	0,626594	8,429004	4,918944	0,003487	0,019773	-2,00518
ZNF570	0,782033	5,853913	4,913868	0,003504	0,019858	-2,01051
ARFGAP3	-0,96353	8,304901	-4,90992	0,003517	0,019923	-2,01466

DNAH8	2,114413	3,521312	4,907261	0,003525	0,019934	-2,01745
LHX1	4,171169	3,47556	4,907231	0,003526	0,019934	-2,01748
KIAA1549	1,773976	0,886988	4,906778	0,003527	0,019934	-2,01796
OR10J1	1,773976	0,886988	4,906778	0,003527	0,019934	-2,01796
SLC26A5	1,773976	0,886988	4,906778	0,003527	0,019934	-2,01796
ST3GAL5	-0,86618	7,571747	-4,90647	0,003528	0,019934	-2,01828
UQCRC1	-1,29086	5,222537	-4,90621	0,003529	0,019934	-2,01856
RBMS1	-0,61673	9,330007	-4,90591	0,00353	0,019934	-2,01887
BTK	-1,26038	5,130804	-4,90329	0,003539	0,019975	-2,02162
PRDX4	-2,00619	4,067192	-4,90215	0,003542	0,019988	-2,02282
ACVR2B	1,024397	5,448034	4,900606	0,003547	0,020009	-2,02445
NOTCH2	-0,87115	7,509926	-4,89766	0,003557	0,020056	-2,02754
ZNF536	2,793006	3,365466	4,896363	0,003561	0,020064	-2,02891
FCGRT	-5,08867	4,920762	-4,89632	0,003562	0,020064	-2,02896
CPQ	-2,13254	5,844546	-4,89592	0,003563	0,020064	-2,02938
GOSR1	0,758258	8,045293	4,894713	0,003567	0,020079	-2,03064
FOXK2	0,626098	7,0223	4,891323	0,003578	0,020119	-2,03421
KRR1	0,751077	8,871853	4,890354	0,003581	0,020119	-2,03523
SCO1	0,677459	7,225506	4,890222	0,003582	0,020119	-2,03537
ZSCAN29	0,640179	8,013515	4,889998	0,003583	0,020119	-2,03561
PDGFA	1,804204	4,641017	4,889418	0,003585	0,020119	-2,03622
GDAP1	1,573593	5,101945	4,889238	0,003585	0,020119	-2,03641
BTN2A2	-1,04406	6,090757	-4,88922	0,003585	0,020119	-2,03642
MITF	-1,93362	7,233562	-4,88917	0,003585	0,020119	-2,03648
ABCB1	0,907677	6,71401	4,887308	0,003592	0,020146	-2,03844
SMU1	0,832714	7,362962	4,885555	0,003598	0,020171	-2,04029
SLC25A40	-0,98777	6,618164	-4,88447	0,003601	0,020184	-2,04143
CCDC120	-2,93793	2,13563	-4,88362	0,003604	0,02019	-2,04233
DOCK1	-2,62345	1,311727	-4,88329	0,003605	0,02019	-2,04267
CD302	-4,2726	4,128725	-4,88074	0,003614	0,020222	-2,04536
HSF1	0,650889	7,315315	4,88074	0,003614	0,020222	-2,04537
DCAF6	0,682315	6,95217	4,879971	0,003616	0,020229	-2,04618
UQCRB	0,609157	10,52472	4,877924	0,003623	0,020259	-2,04834
FAM84A	3,51016	3,850214	4,875153	0,003633	0,020296	-2,05126
SLC22A18	-2,79409	2,592031	-4,87483	0,003634	0,020296	-2,0516
LRP2BP	2,4012	4,712682	4,874705	0,003634	0,020296	-2,05173
TSPO	-1,60748	7,027438	-4,87396	0,003637	0,020302	-2,05252
TMED5	-1,12904	7,956123	-4,87351	0,003638	0,020303	-2,05299
ACBD5	-0,6951	7,427565	-4,87147	0,003645	0,02033	-2,05514
MYH15	1,824644	2,74294	4,87126	0,003646	0,02033	-2,05537
TLR5	-3,98997	2,930768	-4,86975	0,003651	0,02035	-2,05696
CPA3	-0,98007	4,919272	-4,86936	0,003652	0,02035	-2,05738
USP6NL	-1,48233	5,828479	-4,8679	0,003657	0,02037	-2,05892
NFIL3	-1,24975	6,418298	-4,86688	0,003661	0,020381	-2,06
FECH	-0,95719	6,09289	-4,86537	0,003666	0,020402	-2,06159
ENOX1	2,24062	4,502711	4,863159	0,003674	0,020436	-2,06393
LASP1	-0,78447	9,413712	-4,86272	0,003675	0,020436	-2,06439
TNC	4,081228	2,976399	4,861934	0,003678	0,020437	-2,06522
PTPN14	3,178884	3,451096	4,861714	0,003679	0,020437	-2,06545
CD163	-4,08496	3,873096	-4,86105	0,003681	0,020437	-2,06615
CYB561D2	-3,49951	3,385383	-4,86103	0,003681	0,020437	-2,06618
FKBP15	-0,87419	7,499458	-4,85908	0,003688	0,020466	-2,06824

NLRC4	-4,12787	3,837909	-4,85816	0,003691	0,020476	-2,06921
GPR155	1,302105	8,033083	4,854561	0,003703	0,020537	-2,07302
IQSEC2	-2,50335	3,961437	-4,85116	0,003715	0,020593	-2,07662
SFT2D2	-0,69757	8,318737	-4,8508	0,003717	0,020593	-2,077
KIF9	-2,70976	1,883201	-4,84971	0,00372	0,020606	-2,07815
AHSP	2,733224	1,366612	4,848768	0,003724	0,020608	-2,07915
ART4	2,733224	1,366612	4,848768	0,003724	0,020608	-2,07915
PDPR	0,766221	6,936337	4,84743	0,003728	0,020626	-2,08057
TMEM201	-2,99243	1,496213	-4,84648	0,003732	0,020634	-2,08157
CDH13	3,31303	2,851502	4,846212	0,003733	0,020634	-2,08186
HNRNPL	0,690434	9,062225	4,844512	0,003739	0,020659	-2,08366
CDK5	-2,86165	1,959148	-4,844	0,00374	0,02066	-2,0842
GJC1	3,368636	3,074293	4,840501	0,003753	0,02072	-2,08791
CACNA2D1	2,508481	4,720488	4,836408	0,003767	0,020788	-2,09225
STRN3	0,84867	7,875251	4,836199	0,003768	0,020788	-2,09247
STX16	0,715117	7,92181	4,833941	0,003776	0,020824	-2,09487
FBXO48	1,452319	4,818976	4,832295	0,003782	0,020848	-2,09662
TBCD	0,942993	7,327467	4,827709	0,003798	0,02093	-2,10148
02-mar	-2,27657	3,440584	-4,82704	0,003801	0,020935	-2,10219
EPM2AIP1	0,734467	8,761791	4,825245	0,003807	0,020963	-2,1041
ZNF429	1,160563	4,938384	4,824601	0,003809	0,020967	-2,10479
EPHB6	1,277584	4,808057	4,823948	0,003812	0,020971	-2,10548
GATAD2B	0,713833	8,350036	4,823601	0,003813	0,020971	-2,10585
PPM1B	0,728897	8,062437	4,822251	0,003818	0,020989	-2,10728
EPN2	-3,27763	2,412791	-4,82168	0,00382	0,020992	-2,10789
PFKFB3	0,71509	7,957213	4,818354	0,003832	0,021038	-2,11143
TMTC1	1,621274	5,029743	4,818147	0,003832	0,021038	-2,11165
SMG7	0,65663	6,718172	4,818125	0,003833	0,021038	-2,11167
MEF2A	-0,80792	8,173531	-4,81604	0,00384	0,021071	-2,11388
B2M	-0,63516	13,30527	-4,81466	0,003845	0,021077	-2,11535
PIK3CD	0,646621	9,160272	4,814546	0,003846	0,021077	-2,11548
ZNF827	0,887406	8,080564	4,814535	0,003846	0,021077	-2,11549
PHB2	0,614452	8,223197	4,81305	0,003851	0,021091	-2,11707
C15orf40	1,458295	6,462832	4,812979	0,003851	0,021091	-2,11714
RRM2B	-0,77009	6,832911	-4,80999	0,003862	0,021143	-2,12033
FES	-2,93349	2,769042	-4,80922	0,003865	0,02115	-2,12115
LCORL	-0,6372	7,456705	-4,80239	0,00389	0,021277	-2,12842
ITPRIPL1	0,881122	5,152704	4,802071	0,003891	0,021277	-2,12876
JMJD4	1,160196	4,81818	4,800721	0,003896	0,021296	-2,1302
SLC1A3	-2,96974	4,742581	-4,79772	0,003907	0,021332	-2,1334
PDXK	-1,12421	7,248699	-4,79768	0,003907	0,021332	-2,13344
TNFRSF18	1,917894	4,367349	4,797677	0,003907	0,021332	-2,13344
ZNF623	0,903848	6,441097	4,79715	0,003909	0,021334	-2,13401
HOOK2	1,754719	5,491018	4,796772	0,003911	0,021334	-2,13441
TSPYL2	1,004809	7,241232	4,794829	0,003918	0,021362	-2,13648
GNA12	-1,07749	7,183739	-4,79458	0,003919	0,021362	-2,13675
ZNF780A	0,864879	5,504284	4,792613	0,003926	0,021394	-2,13885
TMEM108	2,623911	3,425239	4,792116	0,003928	0,021395	-2,13938
CHST15	-1,50702	4,570579	-4,79168	0,00393	0,021396	-2,13984
DPP10	2,505197	3,975907	4,790781	0,003933	0,021406	-2,1408
SACS	-0,9675	7,086887	-4,79027	0,003935	0,021408	-2,14134
RPL38	0,584777	11,42242	4,789333	0,003938	0,021419	-2,14235

IDO1	-5,7093	5,509911	-4,7888	0,00394	0,021421	-2,14291
TCERG1	0,799831	9,773924	4,786578	0,003949	0,021458	-2,14529
MIDN	-0,65523	8,639896	-4,78234	0,003964	0,021536	-2,14982
NFATC3	0,648854	7,814621	4,780891	0,00397	0,021558	-2,15136
PIP5KL1	3,36116	1,68058	4,777749	0,003982	0,021614	-2,15472
TMEM138	-2,13675	6,380432	-4,77624	0,003987	0,021636	-2,15634
SURF6	0,621105	7,31412	4,775855	0,003989	0,021636	-2,15675
CALM1	-0,84955	10,6184	-4,77542	0,003991	0,021637	-2,15721
BCORL1	-3,23707	3,166489	-4,77419	0,003995	0,021653	-2,15853
ICAM3	1,237143	7,168082	4,773291	0,003999	0,021656	-2,15949
SESN1	0,880606	7,10572	4,773255	0,003999	0,021656	-2,15953
SH3PXD2B	-3,22414	2,386047	-4,77207	0,004003	0,021665	-2,1608
PDE7A	0,713188	8,330707	4,772026	0,004003	0,021665	-2,16084
BRD8	0,66137	7,812769	4,770301	0,00401	0,021685	-2,16269
AMBRA1	1,139718	5,656048	4,770217	0,00401	0,021685	-2,16278
ERCC4	0,676641	7,267504	4,769357	0,004014	0,021695	-2,1637
ZFHX4	2,955416	2,339362	4,767314	0,004021	0,021724	-2,16589
HLA-DRB5	-2,88678	2,745689	-4,76714	0,004022	0,021724	-2,16608
FAM114A1	-3,3778	2,462876	-4,76531	0,004029	0,021753	-2,16803
MARVELD2	2,931607	3,327458	4,764061	0,004034	0,021771	-2,16937
ST3GAL6	-1,23122	5,922393	-4,76169	0,004043	0,021812	-2,17191
IRF2BP2	-0,60562	10,7179	-4,76097	0,004046	0,021818	-2,17268
GIMAP6	0,963894	8,034017	4,759047	0,004053	0,02185	-2,17474
RASSF4	-5,07036	4,725134	-4,7581	0,004057	0,021861	-2,17575
PABPC4	0,679537	9,517698	4,757651	0,004058	0,021862	-2,17624
LPAR2	1,124861	6,282387	4,756518	0,004063	0,021876	-2,17745
HIF1A	0,622002	9,491392	4,755669	0,004066	0,021876	-2,17837
PPP1R35	0,895858	6,248044	4,755448	0,004067	0,021876	-2,1786
TRIM66	0,828476	5,887942	4,755278	0,004068	0,021876	-2,17878
HFM1	2,312213	1,822773	4,754851	0,004069	0,021876	-2,17924
INTS2	1,382695	6,801214	4,754565	0,00407	0,021876	-2,17955
TNFRSF10A	0,726383	7,23869	4,75411	0,004072	0,021878	-2,18004
SERTAD1	-2,13346	4,545635	-4,75357	0,004074	0,021881	-2,18062
PDIA4	-0,9857	7,999961	-4,75205	0,00408	0,021904	-2,18225
PCDHGA1	3,495612	2,081139	4,750788	0,004085	0,021922	-2,1836
PLEKHM1	-0,94001	5,077928	-4,75008	0,004088	0,021928	-2,18436
COL5A2	3,146541	2,68058	4,749406	0,00409	0,021934	-2,18508
PBXIP1	0,791299	9,308263	4,746811	0,004101	0,021979	-2,18787
FZD5	-3,14348	2,238409	-4,74647	0,004102	0,021979	-2,18823
FKBP2	-0,63846	7,564534	-4,74531	0,004106	0,021992	-2,18948
GRIK1	3,707124	2,853562	4,745057	0,004107	0,021992	-2,18975
PADI2	-4,62293	3,418775	-4,74367	0,004113	0,021993	-2,19124
OPN3	-1,21235	6,645995	-4,74348	0,004114	0,021993	-2,19145
CDHR3	1,682435	3,810181	4,742946	0,004116	0,021993	-2,19202
CPNE1	0,715355	7,551372	4,742814	0,004116	0,021993	-2,19216
RPRD1A	0,827384	6,251534	4,742655	0,004117	0,021993	-2,19233
PATL1	-0,7448	6,522806	-4,74264	0,004117	0,021993	-2,19235
06-mar	0,629048	9,174431	4,74205	0,004119	0,021997	-2,19298
MTRR	0,895475	6,626992	4,741528	0,004121	0,021999	-2,19354
PAG1	0,648933	9,97058	4,740008	0,004127	0,022023	-2,19518
DUSP4	0,703177	7,51654	4,73807	0,004135	0,022055	-2,19726
PICK1	-2,16395	1,94363	-4,73638	0,004142	0,022082	-2,19908

LMBR1L	0,850302	6,457008	4,735521	0,004145	0,022092	-2,2
ZFYVE28	1,165625	7,937368	4,733748	0,004152	0,022121	-2,20191
ADAMTS4	3,095904	1,881285	4,731159	0,004162	0,022168	-2,20469
LRRC47	0,701386	7,956191	4,728583	0,004172	0,022214	-2,20747
TACC2	2,483737	1,575202	4,726827	0,004179	0,022238	-2,20936
NCAPH	1,432962	4,986136	4,726634	0,00418	0,022238	-2,20956
SLC7A14	2,422727	3,675469	4,721802	0,0042	0,022333	-2,21477
C3orf62	0,596719	6,486995	4,719158	0,00421	0,022374	-2,21762
TXNDC9	-1,49004	4,885711	-4,7191	0,00421	0,022374	-2,21767
ZNF80	0,855948	5,162066	4,718657	0,004212	0,022375	-2,21816
TMIGD1	2,918574	3,654275	4,716413	0,004221	0,022406	-2,22057
STAB2	3,262634	2,405293	4,716086	0,004223	0,022406	-2,22093
ZNF8	0,949874	5,538803	4,716033	0,004223	0,022406	-2,22098
VPS13D	0,728945	8,225722	4,715148	0,004226	0,022416	-2,22194
SAP18	0,572109	9,057333	4,71454	0,004229	0,022421	-2,22259
THAP5	0,717745	8,050334	4,714037	0,004231	0,022423	-2,22314
RPL27	0,586519	11,26184	4,712964	0,004235	0,022426	-2,22429
ABHD3	-0,86644	7,219664	-4,71276	0,004236	0,022426	-2,22452
TJP1	2,152941	2,994767	4,712726	0,004236	0,022426	-2,22455
DDX24	0,612456	9,572468	4,711383	0,004242	0,022447	-2,226
ZNF282	-1,69864	3,559082	-4,7098	0,004248	0,022464	-2,22771
LMO7	0,763329	6,940133	4,709788	0,004248	0,022464	-2,22772
MFSD12	-1,34307	6,370524	-4,70893	0,004252	0,022474	-2,22865
TNRC6A	0,755581	9,077861	4,704401	0,00427	0,022564	-2,23354
SIPA1L1	0,692066	7,069444	4,703998	0,004272	0,022564	-2,23397
PSMA4	-0,68402	8,940627	-4,7023	0,004279	0,022592	-2,2358
SCARB1	-2,79341	2,504017	-4,7019	0,00428	0,022592	-2,23623
DUT	0,637504	9,279471	4,701291	0,004283	0,022597	-2,23689
NID1	-4,40585	3,259567	-4,70009	0,004288	0,02261	-2,23819
WARS	-0,84892	8,516302	-4,69932	0,004291	0,02261	-2,23902
NBPF1	-1,60245	2,329547	-4,69869	0,004294	0,02261	-2,2397
CASK	0,876984	7,295216	4,698362	0,004295	0,02261	-2,24006
TRUB1	0,842101	7,114476	4,69813	0,004296	0,02261	-2,24031
ADAMTS9-1	2,891201	2,307255	4,698093	0,004296	0,02261	-2,24035
DIS3L2	0,703372	5,816261	4,697999	0,004296	0,02261	-2,24045
TOP2B	0,618219	9,547319	4,697182	0,0043	0,022619	-2,24133
ARF3	-0,72966	7,995228	-4,69553	0,004307	0,022646	-2,24312
FXYD7	2,429237	3,214619	4,695055	0,004309	0,022648	-2,24363
CCDC88C	0,615965	9,28745	4,691857	0,004322	0,022695	-2,24709
LAIR1	-1,41222	5,628425	-4,69128	0,004324	0,022695	-2,24772
PDCD4	0,620609	9,359326	4,690604	0,004327	0,022695	-2,24845
EIF4G3	-0,79681	7,572543	-4,6903	0,004328	0,022695	-2,24877
TEX9	2,117309	4,877097	4,689804	0,00433	0,022695	-2,24931
SNRPE	0,740419	7,593024	4,689019	0,004334	0,022695	-2,25016
C6orf222	3,497284	1,748642	4,688568	0,004335	0,022695	-2,25065
SFRP4	3,615599	3,002787	4,687845	0,004338	0,022695	-2,25143
ZNF431	0,781059	7,128737	4,686807	0,004343	0,022695	-2,25256
SLC22A16	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265
TJP3	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265
LOH12CR2	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265
SHROOM1	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265
SLC22A4	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265

TFCP2L1	-1,63563	0,817815	-4,68672	0,004343	0,022695	-2,25265
IRF8	-0,92104	7,630047	-4,68671	0,004343	0,022695	-2,25266
SLC33A1	0,642184	7,646695	4,684287	0,004353	0,02274	-2,25528
RPL21	1,153189	5,9705	4,683826	0,004355	0,022742	-2,25578
ZNF770	0,619595	9,154874	4,681959	0,004363	0,022774	-2,25781
KRIT1	0,826133	6,380266	4,681277	0,004366	0,022778	-2,25854
SENP7	0,695907	8,664438	4,680999	0,004367	0,022778	-2,25885
CTBP2	-0,96191	6,923539	-4,67966	0,004373	0,022799	-2,2603
FAM49B	-0,71262	9,441644	-4,67764	0,004381	0,022823	-2,26249
HGD	1,376428	2,078189	4,677319	0,004383	0,022823	-2,26283
ABHD8	-2,34079	2,032049	-4,67721	0,004383	0,022823	-2,26295
NTNG1	2,547952	2,273976	4,677056	0,004384	0,022823	-2,26312
FOXN2	-0,77203	7,574678	-4,6754	0,004391	0,022851	-2,26491
GREM1	1,360421	3,541864	4,674014	0,004397	0,022873	-2,26642
SLC11A2	-1,19281	6,820428	-4,67353	0,004399	0,022875	-2,26694
HYAL2	-3,34079	2,444371	-4,67167	0,004406	0,022907	-2,26896
GBP2	-0,68284	10,11035	-4,66824	0,004421	0,022975	-2,27268
FAM120C	1,597109	5,530089	4,667625	0,004424	0,022977	-2,27335
COX5B	-0,84498	7,685256	-4,66733	0,004425	0,022977	-2,27367
SYF2	0,603492	9,523471	4,666846	0,004427	0,022977	-2,27419
HYOU1	-0,85229	7,655623	-4,6666	0,004428	0,022977	-2,27446
HHEX	-0,98689	6,404529	-4,66473	0,004436	0,02299	-2,27649
AMZ2	0,707421	7,456443	4,664642	0,004436	0,02299	-2,27658
HNRNPH1	0,629419	10,70299	4,6645	0,004437	0,02299	-2,27674
PDCL3	-1,22722	5,90189	-4,66449	0,004437	0,02299	-2,27675
SMARCE1	1,452488	6,563932	4,664042	0,004439	0,022992	-2,27723
ERCC3	0,679761	7,552776	4,661321	0,004451	0,023044	-2,28019
DIP2C	1,202465	4,439306	4,660903	0,004452	0,023045	-2,28064
SLC35B3	0,639569	7,108815	4,659629	0,004458	0,023064	-2,28203
POLR3E	1,086138	6,34394	4,658393	0,004463	0,023083	-2,28337
EIF4E2	-0,82907	7,324214	-4,65765	0,004466	0,023092	-2,28418
LEMD2	0,941301	6,20351	4,656793	0,00447	0,023102	-2,28511
HBS1L	0,779003	7,204907	4,654427	0,00448	0,023147	-2,28768
NAP1L2	1,098559	6,086945	4,653371	0,004485	0,023162	-2,28883
PTCD3	0,90158	8,362228	4,652029	0,004491	0,023183	-2,29029
SCAMP2	-1,11085	8,512686	-4,65157	0,004493	0,023185	-2,29078
PDIA5	-1,13428	4,177049	-4,64692	0,004513	0,023275	-2,29585
SOWAHC	-4,30085	4,050571	-4,64682	0,004513	0,023275	-2,29596
TBC1D12	-3,79266	2,832116	-4,64431	0,004524	0,023323	-2,29868
HSBP1L1	0,749676	4,93176	4,641846	0,004535	0,02337	-2,30137
ATP6V1C1	-1,02326	6,826467	-4,64108	0,004538	0,023379	-2,30221
EXTL3	-1,68446	3,616207	-4,64049	0,004541	0,023383	-2,30284
RELB	0,855053	8,255907	4,638101	0,004552	0,023429	-2,30545
DNAH12	5,203467	3,754877	4,637005	0,004556	0,023445	-2,30664
SLC25A42	0,934104	6,915115	4,636353	0,004559	0,023451	-2,30735
GABARAP	-0,97664	6,998942	-4,63501	0,004565	0,023473	-2,30882
KCNA2	2,595968	3,021292	4,634565	0,004567	0,023475	-2,3093
ARAP2	0,633214	9,090569	4,632642	0,004576	0,023493	-2,3114
NUMB	-0,64965	7,895656	-4,63264	0,004576	0,023493	-2,3114
WLS	-3,13077	2,339362	-4,63247	0,004576	0,023493	-2,31158
GPRIN3	0,811983	8,026803	4,632291	0,004577	0,023493	-2,31178
NR1D2	0,646046	7,680069	4,63156	0,00458	0,023501	-2,31258

TRIM56	0,782211	8,814298	4,630746	0,004584	0,023511	-2,31347
PRELID1	-1,33228	6,565368	-4,6303	0,004586	0,023512	-2,31395
PYGO1	1,709761	1,521547	4,629071	0,004591	0,023516	-2,31529
NCF1C	-2,77209	3,493356	-4,62826	0,004595	0,023516	-2,31618
CPPED1	-5,65312	4,242537	-4,62816	0,004596	0,023516	-2,31629
CTSK	-3,80232	2,836946	-4,6281	0,004596	0,023516	-2,31636
TNFSF10	-1,16005	7,371733	-4,62802	0,004596	0,023516	-2,31644
NAGA	-4,78946	4,663847	-4,6279	0,004597	0,023516	-2,31657
TERF2	1,020782	7,175148	4,626018	0,004605	0,023549	-2,31862
ZNF507	0,794676	6,583379	4,625679	0,004607	0,023549	-2,31899
ZNF382	1,946592	4,654761	4,62244	0,004621	0,023594	-2,32253
HMG1	0,654207	8,831877	4,622415	0,004621	0,023594	-2,32256
NLGN3	2,930749	2,767672	4,622379	0,004621	0,023594	-2,3226
RSBN1	0,643051	9,060614	4,622226	0,004622	0,023594	-2,32276
PLEKHA8	-1,21896	4,619934	-4,61798	0,004641	0,023683	-2,3274
C20orf27	-1,12063	4,675078	-4,61727	0,004644	0,023691	-2,32817
TLR7	-4,01309	3,887829	-4,61434	0,004658	0,02375	-2,33138
HIGD1A	-1,258	6,126661	-4,61277	0,004665	0,023777	-2,33309
KDM1B	-2,18603	4,81023	-4,61156	0,00467	0,023797	-2,33442
SRC	-3,52127	5,392243	-4,61081	0,004673	0,023799	-2,33523
TDP1	0,636989	6,737526	4,610501	0,004675	0,023799	-2,33557
SLX4	-3,74431	2,807941	-4,61034	0,004676	0,023799	-2,33575
ATP6AP1	-1,24062	8,249226	-4,60867	0,004683	0,023829	-2,33757
SETD9	-1,48297	3,346077	-4,60761	0,004688	0,023845	-2,33874
CNST	1,052332	6,592359	4,607246	0,00469	0,023845	-2,33913
RSF1	0,683329	9,88587	4,606042	0,004695	0,023864	-2,34045
PRKRIP1	0,644155	6,568934	4,605694	0,004697	0,023864	-2,34083
PLA2G4C	-1,45944	4,564827	-4,60469	0,004701	0,023876	-2,34193
SLIRP	-0,66578	7,800133	-4,60432	0,004703	0,023876	-2,34233
AP3M1	-1,16583	5,697378	-4,60405	0,004704	0,023876	-2,34264
TMEM50B	-0,98965	6,728727	-4,60331	0,004708	0,023885	-2,34344
PLD3	-2,04567	6,311958	-4,60112	0,004718	0,023927	-2,34584
NUDT15	-2,82704	4,754311	-4,60048	0,004721	0,023933	-2,34654
FMO5	-2,46411	1,760374	-4,6001	0,004722	0,023934	-2,34696
MGAT4A	0,697934	8,833374	4,598588	0,004729	0,023955	-2,34861
REXO4	0,61707	6,920029	4,598457	0,00473	0,023955	-2,34876
C1orf54	-3,95127	3,416276	-4,59764	0,004734	0,023964	-2,34965
CCNJL	1,547952	2,163951	4,597211	0,004736	0,023964	-2,35012
ZNF566	0,607092	5,551473	4,59668	0,004738	0,023964	-2,3507
RNF150	2,839442	2,614708	4,596573	0,004739	0,023964	-2,35082
COX20	-1,88059	6,480671	-4,59469	0,004747	0,024	-2,35288
CNDP2	-0,78651	7,446443	-4,59377	0,004752	0,024013	-2,35389
NRIP1	-0,59248	7,547199	-4,59324	0,004754	0,024016	-2,35447
ZNF275	0,768865	6,056093	4,592648	0,004757	0,024021	-2,35512
VTCN1	3,095904	1,547952	4,592321	0,004758	0,024021	-2,35548
QPCT	-4,90964	4,644772	-4,59097	0,004765	0,024044	-2,35697
KCTD1	2,517233	4,163365	4,590414	0,004767	0,024047	-2,35757
CCNT2	0,783914	8,13777	4,590107	0,004769	0,024047	-2,35791
SVEP1	3,581611	3,426436	4,587006	0,004783	0,024111	-2,36131
KLRC1	0,783104	6,261601	4,585595	0,00479	0,024127	-2,36286
WIPI1	-1,11565	4,898615	-4,58558	0,00479	0,024127	-2,36287
EYS	2,220988	3,833803	4,584872	0,004793	0,024134	-2,36365

DHRS3	0,763477	5,923718	4,584569	0,004794	0,024134	-2,36398
BAIAP2	-2,86465	2,734622	-4,58403	0,004797	0,024138	-2,36457
ZNF7	1,448403	4,989142	4,583473	0,004799	0,024142	-2,36519
SFMBT1	0,820888	6,775617	4,583063	0,004801	0,024144	-2,36564
C12orf50	3,183172	3,806205	4,58242	0,004804	0,02415	-2,36634
PDE4D	0,635063	8,63442	4,578854	0,004821	0,024226	-2,37026
DHX36	0,638977	9,339455	4,577939	0,004825	0,024239	-2,37126
TMEM167E	0,667944	7,656381	4,577521	0,004827	0,02424	-2,37172
DDX28	0,986221	6,075492	4,574989	0,004839	0,024291	-2,3745
CCDC152	1,311779	6,43709	4,574461	0,004842	0,024295	-2,37508
TBC1D9	-1,89872	4,994596	-4,57392	0,004844	0,024299	-2,37567
AGBL4	2,356293	3,096442	4,573105	0,004848	0,02431	-2,37657
NLRC5	0,723005	8,361432	4,572587	0,004851	0,024314	-2,37714
DPM2	1,478738	4,907311	4,570609	0,00486	0,024352	-2,37932
MGLL	-2,69847	4,904644	-4,56984	0,004864	0,024362	-2,38016
LUC7L2	0,796399	8,483546	4,569184	0,004867	0,024369	-2,38088
ZNF174	0,783832	5,525832	4,568592	0,00487	0,024374	-2,38153
TRAF1	0,802613	7,281589	4,568026	0,004872	0,024379	-2,38216
TDRD12	2,900917	2,645446	4,566451	0,00488	0,024407	-2,38389
MAP3K13	-0,63758	6,555599	-4,56612	0,004881	0,024407	-2,38425
ZCWPW2	2,503185	3,308234	4,562303	0,0049	0,02449	-2,38845
PLOD3	-1,8732	4,83443	-4,56188	0,004902	0,024491	-2,38892
OXSR1	-0,88571	7,666785	-4,56136	0,004904	0,024495	-2,38949
MYB	0,861189	4,964054	4,561003	0,004906	0,024495	-2,38988
TRMT1L	0,898952	7,984889	4,560117	0,00491	0,024507	-2,39086
ZDHHC11	3,064098	1,865382	4,558221	0,004919	0,024544	-2,39295
BTG3	-1,09182	6,718984	-4,5576	0,004922	0,02455	-2,39363
LNX1	3,734313	2,395478	4,556877	0,004926	0,024559	-2,39443
CRAT	-3,23348	2,145061	-4,5553	0,004933	0,02458	-2,39616
SLC45A3	1,013423	6,415948	4,555225	0,004934	0,02458	-2,39625
GPR141	-2,90015	2,11674	-4,55492	0,004935	0,02458	-2,39659
HMGCS1	-0,88104	7,073131	-4,55329	0,004943	0,024607	-2,39838
HTR4	3,369327	2,879651	4,553103	0,004944	0,024607	-2,39859
BOP1	-3,4626	2,505276	-4,55175	0,004951	0,024624	-2,40008
DFFA	0,752075	6,699766	4,551358	0,004952	0,024624	-2,40051
LRRC32	-1,83062	1,248642	-4,55131	0,004953	0,024624	-2,40056
CDC42SE2	0,563199	10,67219	4,550045	0,004959	0,024645	-2,40196
PLEKHB2	-0,81488	7,618227	-4,5497	0,00496	0,024645	-2,40234
ZRANB2	0,651365	9,700083	4,547158	0,004973	0,024657	-2,40514
BAHCC1	-1,63563	1,151148	-4,54698	0,004974	0,024657	-2,40534
GCOM1	1,63563	1,151148	4,546979	0,004974	0,024657	-2,40534
HIST4H4	1,63563	1,151148	4,546979	0,004974	0,024657	-2,40534
ZNF614	0,764151	5,851784	4,546789	0,004975	0,024657	-2,40555
NAA16	0,706261	7,347198	4,546722	0,004975	0,024657	-2,40562
SEMA3D	2,551994	4,398104	4,546698	0,004975	0,024657	-2,40565
SDAD1	0,626616	8,465661	4,545025	0,004983	0,024676	-2,40749
CHD5	2,881285	1,440643	4,544868	0,004984	0,024676	-2,40767
ZMYND10	2,881285	1,440643	4,544868	0,004984	0,024676	-2,40767
USP49	1,414604	5,345555	4,543136	0,004992	0,024709	-2,40958
COX15	0,880314	6,414847	4,54261	0,004995	0,024713	-2,41016
SEMA4C	0,787675	5,698204	4,541535	0,005	0,02473	-2,41134
FCGR1B	-2,83062	2,081976	-4,54005	0,005008	0,024756	-2,41298

MCM8	0,872268	6,016781	4,539457	0,005011	0,024756	-2,41364
SFXN4	-1,55576	4,590116	-4,53923	0,005012	0,024756	-2,41388
ZFPM1	1,46372	4,136633	4,539063	0,005012	0,024756	-2,41407
ZNF580	1,399429	5,031166	4,537984	0,005018	0,024772	-2,41526
BCLAF1	-0,60681	9,244008	-4,53767	0,005019	0,024772	-2,41561
P4HB	-1,17076	7,73274	-4,53643	0,005025	0,024794	-2,41698
CCDC71	-2,21314	4,114024	-4,53495	0,005033	0,024821	-2,41861
TMEM165	-0,72952	7,910979	-4,53459	0,005035	0,024821	-2,41901
NR6A1	-2,32576	2,024534	-4,53333	0,005041	0,024837	-2,42041
RAD21-AS1	2,884282	2,108807	4,533131	0,005042	0,024837	-2,42062
CWC22	0,703573	8,826862	4,53289	0,005043	0,024837	-2,42089
SPIRE1	-3,30035	4,252625	-4,53236	0,005046	0,024841	-2,42147
ZNF821	1,208414	4,366007	4,529878	0,005058	0,024893	-2,42422
SULT1A1	-1,95453	4,925762	-4,52916	0,005061	0,024902	-2,42501
NR3C1	0,558757	9,946929	4,528408	0,005065	0,024912	-2,42585
RAB1A	-0,68395	9,134896	-4,52601	0,005077	0,024956	-2,4285
PLXDC1	1,63837	4,326385	4,525884	0,005078	0,024956	-2,42864
SYNC	2,243003	3,864441	4,525467	0,00508	0,024956	-2,4291
RPS12	0,602339	11,83372	4,525034	0,005082	0,024956	-2,42958
ERP29	0,559945	9,425102	4,52481	0,005083	0,024956	-2,42982
FAM177B	1,492682	4,091732	4,523763	0,005088	0,024967	-2,43098
GPS2	0,952685	6,153956	4,523673	0,005089	0,024967	-2,43108
SLFN5	0,577811	10,35851	4,521134	0,005101	0,025021	-2,43389
RBM17	0,593238	9,820202	4,520512	0,005105	0,025027	-2,43458
BMS1	0,598821	8,129437	4,520151	0,005106	0,025028	-2,43498
PLXND1	-1,03898	6,503857	-4,5179	0,005118	0,025074	-2,43747
PAQR6	3,51531	2,757655	4,517005	0,005122	0,025088	-2,43846
TMEM229E	-1,44064	3,486724	-4,51612	0,005127	0,025101	-2,43945
TATDN3	-0,96123	5,701132	-4,51567	0,005129	0,025103	-2,43994
SEC13	-0,85282	7,25572	-4,51492	0,005133	0,025104	-2,44077
PTMS	-1,1605	5,637363	-4,51492	0,005133	0,025104	-2,44077
OSTF1	-1,35622	6,466543	-4,51388	0,005138	0,025116	-2,44192
GMDS	-1,79881	3,780691	-4,5135	0,00514	0,025116	-2,44235
AP3B1	-0,73134	7,165458	-4,51341	0,00514	0,025116	-2,44245
ZNF644	0,637789	8,412851	4,512503	0,005145	0,025129	-2,44345
GRPEL2	1,253088	5,588506	4,512014	0,005147	0,025133	-2,44399
AHNAK	-1,05817	9,539645	-4,51082	0,005154	0,025154	-2,44532
SLC26A2	-1,01782	7,117494	-4,5103	0,005156	0,025158	-2,44589
TAP1	-0,62022	8,90816	-4,50932	0,005161	0,025174	-2,44698
HORMAD1	-2,13077	1,593707	-4,5076	0,00517	0,025207	-2,44888
NDUFAF4	0,728006	6,01719	4,505785	0,005179	0,025212	-2,4509
GNG7	0,930385	6,033592	4,505772	0,005179	0,025212	-2,45091
DHRX	-1,10847	6,188264	-4,50557	0,00518	0,025212	-2,45114
GNG11	1,347309	5,292074	4,505024	0,005183	0,025212	-2,45174
GNGT2	-1,26452	3,236852	-4,50497	0,005183	0,025212	-2,4518
CATSPER1	-1,96896	0,984482	-4,50496	0,005183	0,025212	-2,45181
DPYS	-1,96896	0,984482	-4,50496	0,005183	0,025212	-2,45181
GCC1	0,743277	6,983853	4,501784	0,0052	0,025279	-2,45533
SALL2	-2,69013	2,452374	-4,5016	0,005201	0,025279	-2,45554
PBX1	2,139953	3,534082	4,499801	0,00521	0,025314	-2,45754
IRF2BPL	-0,70572	8,110033	-4,49948	0,005211	0,025314	-2,45789
LONRF1	-0,72488	6,967286	-4,49548	0,005232	0,025405	-2,46233

TCF12	0,65713	7,116758	4,494817	0,005235	0,025413	-2,46307
CAPN2	-0,7585	7,031023	-4,4936	0,005242	0,025433	-2,46442
PACSLN1	-1,86165	0,930827	-4,49333	0,005243	0,025433	-2,46472
RBL2	0,626909	9,941913	4,492873	0,005246	0,025436	-2,46523
PVT1	1,640741	6,288418	4,490833	0,005256	0,025455	-2,4675
SYCP2	1,244523	5,471005	4,490713	0,005257	0,025455	-2,46763
SLC25A43	-3,59773	3,572842	-4,49053	0,005258	0,025455	-2,46783
AHRR	-1,39868	6,678949	-4,48966	0,005262	0,025455	-2,4688
COL21A1	2,117225	2,2536	4,489528	0,005263	0,025455	-2,46895
ECM2	2,571415	1,285708	4,488684	0,005267	0,025455	-2,46988
KIF18B	2,571415	1,285708	4,488684	0,005267	0,025455	-2,46988
ZNF547	2,571415	1,285708	4,488684	0,005267	0,025455	-2,46988
TMEM104	-2,06398	4,039448	-4,48863	0,005268	0,025455	-2,46995
RPL15	0,560988	11,19482	4,488388	0,005269	0,025455	-2,47021
NUP88	0,928411	6,959359	4,488288	0,005269	0,025455	-2,47032
EPS8	1,83759	3,897674	4,486566	0,005278	0,02549	-2,47224
FPR2	-2,9559	3,975233	-4,48587	0,005282	0,025499	-2,47301
ZBTB11	0,67433	8,826384	4,484292	0,00529	0,025528	-2,47477
ITM2B	-0,65418	10,61039	-4,48403	0,005292	0,025528	-2,47506
ASF1B	-3,03092	2,289436	-4,48307	0,005297	0,025543	-2,47613
RPS14	0,560423	11,78872	4,48258	0,005299	0,025547	-2,47667
NPEPPS	-0,61925	7,779769	-4,48153	0,005305	0,025565	-2,47784
FAM107A	3,505534	3,462528	4,480337	0,005311	0,025586	-2,47917
GTPBP4	0,847135	8,613443	4,479765	0,005314	0,025587	-2,4798
KISS1R	-1,54843	3,214859	-4,47961	0,005315	0,025587	-2,47997
BATF	0,971717	6,461831	4,475248	0,005338	0,025689	-2,48483
SLC19A1	-2,65909	2,436856	-4,47424	0,005343	0,025706	-2,48596
SLIT3	2,409606	1,733124	4,47044	0,005363	0,025789	-2,49019
GPATCH2	0,664251	6,936919	4,470295	0,005364	0,025789	-2,49035
RPL31	0,542101	11,66639	4,469539	0,005368	0,0258	-2,49119
DIS3	0,682043	8,276268	4,469015	0,005371	0,025803	-2,49178
API5	0,570673	7,773092	4,468583	0,005373	0,025803	-2,49226
KLHL23	2,274279	3,998794	4,468111	0,005376	0,025803	-2,49278
SNRK	0,69761	7,771748	4,468019	0,005376	0,025803	-2,49289
PGBD4	1,443776	5,355636	4,466818	0,005383	0,025814	-2,49422
ZDBF2	0,554886	6,691807	4,466523	0,005384	0,025814	-2,49455
RIPK3	-3,65043	3,59919	-4,46629	0,005385	0,025814	-2,49482
FAM49A	-0,90875	6,834444	-4,46609	0,005386	0,025814	-2,49503
AP3S1	-0,99956	7,498339	-4,4659	0,005387	0,025814	-2,49525
PSMB9	-0,94173	8,734928	-4,46525	0,005391	0,025819	-2,49597
TEX10	0,894956	6,147377	4,465012	0,005392	0,025819	-2,49624
NEK10	3,415574	3,700214	4,464588	0,005394	0,025821	-2,49671
FER1L4	3,559827	1,779913	4,463295	0,005401	0,025846	-2,49815
SLC37A1	-1,25672	5,359122	-4,45934	0,005423	0,025938	-2,50256
STX3	-1,10891	5,87155	-4,45765	0,005432	0,02597	-2,50445
TRPM4	-1,99243	1,329547	-4,45744	0,005433	0,02597	-2,50468
CCNA2	1,455814	3,823041	4,455947	0,005441	0,025999	-2,50635
SLC7A6OS	0,853922	7,254386	4,455094	0,005445	0,026007	-2,50731
STIM2	0,614789	9,084191	4,45467	0,005448	0,026007	-2,50778
ZHX2	0,801574	5,11269	4,454652	0,005448	0,026007	-2,5078
SPTLC1	-0,77993	8,022031	-4,45348	0,005454	0,026025	-2,5091
HEG1	0,65421	7,320965	4,452955	0,005457	0,026025	-2,50969

ROCK2	-0,66178	7,6317	-4,45288	0,005457	0,026025	-2,50978
FRMD4A	2,013886	3,609395	4,452587	0,005459	0,026025	-2,5101
TUG1	0,775407	9,058438	4,450674	0,005469	0,026065	-2,51224
DCAF16	0,619008	7,791196	4,448228	0,005483	0,026117	-2,51497
DTYMK	-1,36249	3,511862	-4,44802	0,005484	0,026117	-2,51521
SREBF1	-2,24931	4,132112	-4,44675	0,005491	0,026136	-2,51663
ATP6V1E2	1,312493	5,894328	4,446561	0,005492	0,026136	-2,51684
APOL4	-4,39123	3,798064	-4,44625	0,005494	0,026136	-2,51719
PPRC1	1,079666	5,658547	4,444386	0,005504	0,026176	-2,51927
PIGG	0,657663	5,804995	4,443098	0,005511	0,026201	-2,52071
NASP	0,65942	8,440716	4,442486	0,005514	0,026208	-2,5214
SLC29A3	-3,87182	3,37655	-4,44107	0,005522	0,026236	-2,52298
RALGAPA1	0,783177	6,962494	4,439254	0,005532	0,026274	-2,52501
MINPP1	-1,19251	5,365511	-4,43774	0,00554	0,026305	-2,5267
COL20A1	3,238082	1,619041	4,43728	0,005543	0,026308	-2,52722
GNL3	1,024403	7,636762	4,436637	0,005546	0,026316	-2,52794
ZNF501	1,726749	4,037241	4,435226	0,005554	0,026345	-2,52952
HLA-L	-3,02346	2,285708	-4,43363	0,005563	0,026378	-2,53131
TMED3	1,609601	5,404359	4,433044	0,005566	0,026384	-2,53196
ZCCHC24	-1,35487	4,827839	-4,43239	0,00557	0,026393	-2,5327
FZD3	1,407589	6,670876	4,43099	0,005578	0,02642	-2,53426
CHRNA10	0,777808	2,603523	4,428714	0,00559	0,026472	-2,53681
SEH1L	-1,79154	5,437215	-4,42826	0,005593	0,026475	-2,53732
CARD6	-4,23778	3,2262	-4,4279	0,005595	0,026475	-2,53772
ZNF222	0,724676	4,131595	4,427039	0,0056	0,026489	-2,53869
PYROXD2	1,237029	4,977453	4,425978	0,005605	0,026508	-2,53988
ZNF618	-1,96622	3,961991	-4,42507	0,005611	0,026512	-2,5409
FAN1	0,876185	5,673483	4,425012	0,005611	0,026512	-2,54096
FCER1A	-1,99013	5,811835	-4,42483	0,005612	0,026512	-2,54117
MAP4K1	1,203126	5,36713	4,424103	0,005616	0,026522	-2,54198
ZFX	0,658995	8,078469	4,422507	0,005625	0,026542	-2,54377
KLHL18	-2,44992	4,361425	-4,42243	0,005625	0,026542	-2,54386
TAF9	-0,89588	6,731448	-4,42217	0,005627	0,026542	-2,54415
CST3	-4,6704	4,725177	-4,42202	0,005628	0,026542	-2,54432
GRM3	1,654491	2,903519	4,420345	0,005637	0,026578	-2,5462
UBAC2	0,756633	7,259132	4,419598	0,005641	0,026589	-2,54703
NFATC2	0,604478	8,493075	4,418857	0,005645	0,026598	-2,54786
TANK	0,747228	8,576899	4,418548	0,005647	0,026598	-2,54821
ZNF777	1,038906	5,418587	4,418237	0,005649	0,026598	-2,54856
EMP1	-1,89783	7,198518	-4,4161	0,005661	0,026639	-2,55096
DGKI	2,093762	3,103523	4,416045	0,005661	0,026639	-2,55102
ABCD3	0,999792	7,317751	4,414383	0,005671	0,026667	-2,55289
ANKRD46	0,873124	5,553173	4,414313	0,005671	0,026667	-2,55296
FAM160B1	0,646204	7,297499	4,413216	0,005677	0,026687	-2,5542
SPTSSA	-1,32267	6,43783	-4,41265	0,005681	0,026693	-2,55483
OXCT1	1,165355	6,343743	4,411848	0,005685	0,026706	-2,55573
MOBP	3,886599	3,333275	4,411488	0,005687	0,026707	-2,55614
RAC1	-0,67518	8,900307	-4,41036	0,005694	0,026728	-2,5574
DNAJC6	1,4786	4,431572	4,407322	0,005711	0,0268	-2,56082
MAP1S	-2,99243	2,270189	-4,40669	0,005714	0,026808	-2,56153
IGFLR1	-0,98583	6,215752	-4,40357	0,005732	0,026883	-2,56504
LCK	0,696372	7,624724	4,400694	0,005749	0,026952	-2,56827

SFSWAP	0,675847	8,630641	4,398784	0,00576	0,026992	-2,57042
LRRC14	0,931523	5,203868	4,398521	0,005761	0,026992	-2,57071
TRAT1	0,747654	7,326467	4,397271	0,005769	0,027017	-2,57212
SLC25A11	-2,06657	5,368962	-4,39632	0,005774	0,027034	-2,57319
NPAT	0,62193	7,716381	4,393706	0,005789	0,027078	-2,57613
TMEM206	-1,85942	4,641614	-4,39313	0,005793	0,027078	-2,57678
SYNGR2	-0,79213	9,216371	-4,39293	0,005794	0,027078	-2,577
ENTPD1	-0,75244	6,323908	-4,39285	0,005794	0,027078	-2,5771
TP53	0,784494	6,62561	4,392825	0,005794	0,027078	-2,57712
ARL6IP4	1,282944	4,774386	4,392709	0,005795	0,027078	-2,57725
PDGFRB	-2,05664	1,028321	-4,39063	0,005807	0,027126	-2,57959
TAPBP	-0,78127	10,19718	-4,38983	0,005812	0,027129	-2,5805
TATDN1	0,673412	7,408706	4,389704	0,005812	0,027129	-2,58064
CLCN3	0,797866	8,154784	4,389531	0,005813	0,027129	-2,58083
REPS1	0,729194	7,361316	4,388512	0,005819	0,027146	-2,58198
SLC50A1	-1,09646	5,928748	-4,38823	0,005821	0,027146	-2,5823
MED17	0,74218	6,816871	4,387083	0,005828	0,027166	-2,58359
NDUFV3	-0,86692	6,255073	-4,38684	0,005829	0,027166	-2,58386
TAF1B	-1,04631	5,433596	-4,3858	0,005835	0,027185	-2,58503
UNC5CL	1,096977	4,542582	4,384389	0,005843	0,027197	-2,58663
CBX8	-1,90475	1,285708	-4,38425	0,005844	0,027197	-2,58678
GNL1	1,259739	6,758693	4,384143	0,005845	0,027197	-2,5869
ACP6	0,915434	5,51561	4,384073	0,005845	0,027197	-2,58698
PDRG1	0,846814	5,73191	4,383235	0,00585	0,027211	-2,58793
SHMT1	-2,98782	2,267888	-4,3782	0,00588	0,027338	-2,59361
MMP14	-2,31764	5,402592	-4,37777	0,005882	0,027338	-2,59409
LATS2	-0,97613	6,773942	-4,37759	0,005883	0,027338	-2,5943
CD180	-4,19153	3,662579	-4,37608	0,005892	0,027371	-2,596
TXK	1,19857	5,555061	4,37315	0,00591	0,027442	-2,5993
ZNF772	1,058271	5,092977	4,37256	0,005913	0,027446	-2,59997
TXN2	-0,77211	5,884876	-4,37219	0,005915	0,027446	-2,60039
PIGK	0,587915	6,988826	4,372025	0,005916	0,027446	-2,60057
ABCC3	-4,2307	3,222658	-4,37112	0,005922	0,027462	-2,6016
ANKRD36B	1,722034	4,144934	4,369321	0,005933	0,027497	-2,60363
ASL	-2,18144	1,619041	-4,36886	0,005935	0,027497	-2,60414
MOSPD3	-2,18144	1,619041	-4,36886	0,005935	0,027497	-2,60414
RAB20	-3,76727	5,455051	-4,3682	0,005939	0,027507	-2,60489
NUB1	-0,64621	8,911862	-4,36677	0,005948	0,027537	-2,6065
SNAI1	2,986739	3,078332	4,365508	0,005955	0,027553	-2,60793
COL9A3	0,808028	5,549585	4,365242	0,005957	0,027553	-2,60824
SPATA16	2,897054	2,310181	4,364837	0,005959	0,027553	-2,60869
FAM102B	-0,96369	5,329481	-4,36471	0,00596	0,027553	-2,60884
SPIN4	-1,14324	5,355361	-4,36456	0,005961	0,027553	-2,609
UBASH3A	0,884715	6,098557	4,362703	0,005972	0,027592	-2,6111
DAXX	0,643121	7,182775	4,362512	0,005973	0,027592	-2,61132
DTWD1	0,882612	6,674804	4,362143	0,005975	0,027593	-2,61174
PDLIM3	2,210017	3,569114	4,361539	0,005979	0,027601	-2,61242
GLCCI1	0,66548	8,566313	4,360995	0,005982	0,027607	-2,61304
RNF126	0,718237	6,947241	4,360029	0,005988	0,027625	-2,61413
BCCIP	0,725514	8,452545	4,357775	0,006002	0,027669	-2,61668
TPM1	-1,28284	4,393883	-4,35756	0,006003	0,027669	-2,61692
GDF7	2,442293	3,523443	4,357488	0,006004	0,027669	-2,617

CBLN3	2,215991	4,9709	4,356679	0,006008	0,027682	-2,61792
ARMC7	-2,95679	2,25237	-4,35486	0,006019	0,027717	-2,61997
DENND4A	0,558015	7,970143	4,354784	0,00602	0,027717	-2,62006
TPST1	2,240957	3,705441	4,353643	0,006027	0,02774	-2,62135
NDUFB2	-0,80815	7,529514	-4,35137	0,006041	0,027789	-2,62392
RASSF2	-0,58794	8,506843	-4,35125	0,006041	0,027789	-2,62407
TYW5	1,327156	5,301831	4,350607	0,006045	0,027798	-2,62479
WDR3	0,739196	7,210131	4,349644	0,006051	0,027811	-2,62588
ACAT2	-0,7362	5,932599	-4,3494	0,006053	0,027811	-2,62616
FAM131A	-0,90089	5,267513	-4,34915	0,006054	0,027811	-2,62644
PLAT	3,374822	3,323041	4,348301	0,006059	0,027826	-2,6274
LIMA1	-1,1619	6,330143	-4,34738	0,006065	0,027843	-2,62845
SLC41A2	-2,41857	3,373236	-4,34549	0,006077	0,027887	-2,63058
SEPHS1	0,562595	6,332033	4,344899	0,00608	0,027891	-2,63125
HCAR3	-2,06439	4,03965	-4,34472	0,006081	0,027891	-2,63146
PRKCA	0,734689	7,254804	4,34378	0,006087	0,027908	-2,63252
GATAD2A	0,694046	7,908625	4,342458	0,006095	0,027936	-2,63402
FAM171A2	3,018126	3,037384	4,341304	0,006102	0,027938	-2,63533
EPOR	-1,63563	2,346136	-4,34114	0,006103	0,027938	-2,63551
SLC25A19	-2,34219	4,3215	-4,34105	0,006104	0,027938	-2,63561
RNF219	0,788114	7,387456	4,340943	0,006104	0,027938	-2,63574
PLEKHG1	0,832834	5,867512	4,340797	0,006105	0,027938	-2,6359
STAM	0,654271	7,464037	4,339667	0,006112	0,027955	-2,63719
ZNF136	0,75557	6,537633	4,339533	0,006113	0,027955	-2,63734
ILK	-1,20098	5,6576	-4,33782	0,006124	0,02799	-2,63928
SORT1	-3,01121	4,410352	-4,33767	0,006125	0,02799	-2,63945
IFNAR2	-0,67256	8,11034	-4,33685	0,00613	0,028004	-2,64037
ZBTB43	0,877167	8,189512	4,336198	0,006134	0,028006	-2,64112
DAP	-1,23634	6,355933	-4,33571	0,006137	0,028006	-2,64167
SLC16A6	-0,96711	6,813256	-4,33565	0,006137	0,028006	-2,64174
SLC38A6	-0,9676	6,820732	-4,33549	0,006138	0,028006	-2,64192
IAH1	-0,62998	6,912721	-4,33465	0,006143	0,028007	-2,64288
AGBL3	1,878469	4,660661	4,334624	0,006144	0,028007	-2,6429
RBM15B	0,665582	8,223388	4,334496	0,006144	0,028007	-2,64305
DUSP2	-0,68586	7,243873	-4,33363	0,00615	0,028023	-2,64403
INTS8	0,696734	6,959775	4,332953	0,006154	0,02803	-2,6448
ZNF425	3,385934	3,416276	4,332734	0,006155	0,02803	-2,64505
NCK2	0,777856	7,739258	4,331412	0,006164	0,028058	-2,64655
MAP4K4	0,59832	8,818978	4,330501	0,006169	0,028075	-2,64758
BCL11B	0,546357	11,03208	4,329072	0,006178	0,028096	-2,64921
CXCL11	-2,4474	5,577829	-4,32888	0,006179	0,028096	-2,64942
MKRN1	0,700528	8,476705	4,3288	0,00618	0,028096	-2,64952
TMBIM4	-0,70764	8,922774	-4,32753	0,006188	0,028123	-2,65096
USP7	0,567943	9,763881	4,326243	0,006196	0,028151	-2,65242
UBE2Q2P1	1,160948	5,589776	4,325602	0,0062	0,02816	-2,65315
ZNF500	1,770016	5,06859	4,325079	0,006203	0,02816	-2,65374
MAP3K2	-0,56463	9,02455	-4,32498	0,006204	0,02816	-2,65385
SNIP1	0,723825	7,309557	4,323932	0,00621	0,028181	-2,65505
JMJD8	0,685763	4,530296	4,322679	0,006218	0,028193	-2,65647
TOB1	-0,82126	7,793638	-4,32255	0,006219	0,028193	-2,65662
FAM122C	-2,47063	3,153613	-4,32253	0,006219	0,028193	-2,65664
MTO1	0,749445	6,349153	4,319774	0,006236	0,028263	-2,65977

CYB5R3	-1,13416	7,165155	-4,31774	0,006249	0,028311	-2,66209
FLT1	1,073596	4,336379	4,317481	0,006251	0,028311	-2,66238
RP9	0,931776	7,019321	4,314771	0,006268	0,028379	-2,66546
FAR2	-3,51208	3,146016	-4,31438	0,006271	0,028381	-2,66591
ANKH	0,690947	7,388775	4,313802	0,006274	0,028389	-2,66656
FURIN	0,577722	8,304773	4,311846	0,006287	0,028436	-2,66879
SLC14A1	0,846903	3,530761	4,308817	0,006306	0,028507	-2,67224
C17orf51	-2,94933	2,248642	-4,30875	0,006307	0,028507	-2,67232
ZNF234	0,836834	6,345195	4,308358	0,006309	0,028507	-2,67276
ARL11	-0,85233	4,752582	-4,30812	0,006311	0,028507	-2,67303
ZNF140	0,771952	6,026066	4,306656	0,00632	0,028534	-2,6747
EML6	1,931183	4,32453	4,306567	0,00632	0,028534	-2,6748
GIMAP7	0,564421	10,6127	4,305336	0,006328	0,02856	-2,6762
AP1B1	-0,72646	7,590454	-4,30488	0,006331	0,028565	-2,67672
NHLRC4	-1,33333	0,666667	-4,3041	0,006336	0,028567	-2,67761
TTC19	0,700571	7,747344	4,303727	0,006339	0,028567	-2,67803
CPT1A	-0,5884	8,157377	-4,30357	0,00634	0,028567	-2,67821
NEK9	0,570101	8,480209	4,30353	0,00634	0,028567	-2,67826
PRAM1	-3,4789	3,324414	-4,30006	0,006362	0,028655	-2,68221
CDCA4	1,395897	5,967218	4,299866	0,006364	0,028655	-2,68243
PROCR	-3,70098	3,291131	-4,29922	0,006368	0,028665	-2,68317
MPP6	0,769793	6,752381	4,298001	0,006376	0,02868	-2,68456
CCP110	0,691219	7,17611	4,297781	0,006377	0,02868	-2,68481
CFLAR-AS1	3,162278	2,247806	4,297764	0,006377	0,02868	-2,68483
SNX30	-0,98928	5,697933	-4,29724	0,006381	0,028686	-2,68543
YIF1A	-1,55046	5,18081	-4,29587	0,006389	0,028714	-2,68699
YY1AP1	0,565514	7,110501	4,295641	0,006391	0,028714	-2,68725
STOML1	1,091492	4,029483	4,294576	0,006398	0,028736	-2,68847
C12orf76	0,729422	5,984103	4,293162	0,006407	0,028769	-2,69008
C2CD2L	-1,2625	6,145242	-4,29202	0,006414	0,028793	-2,69138
CHAC1	2,362488	2,237885	4,290255	0,006426	0,028832	-2,69339
ZHX3	-2,58496	1,959148	-4,29006	0,006427	0,028832	-2,69362
PMPCB	0,592491	7,822048	4,28793	0,006441	0,028879	-2,69605
GOLGA7B	2,931953	4,189285	4,287845	0,006442	0,028879	-2,69615
FAM107B	0,577776	10,56687	4,286453	0,006451	0,02891	-2,69774
TRIM13	0,709518	7,438392	4,285046	0,00646	0,028943	-2,69934
MOAP1	0,565746	7,271469	4,284574	0,006463	0,028947	-2,69988
DNAJC15	-0,77964	7,287124	-4,28392	0,006468	0,028957	-2,70063
COG8	1,026528	5,749625	4,283264	0,006472	0,028967	-2,70138
LINC00173	1,088448	4,011184	4,282835	0,006475	0,028971	-2,70187
CHD6	0,899379	8,064119	4,281843	0,006481	0,028983	-2,703
ETHE1	-1,06536	4,712239	-4,28138	0,006484	0,028983	-2,70353
DDX60L	-0,57741	7,734531	-4,28132	0,006485	0,028983	-2,7036
MNS1	3,125737	3,670178	4,281172	0,006486	0,028983	-2,70377
ZFR	0,648492	8,880072	4,280533	0,00649	0,028993	-2,7045
SFPQ	0,564567	10,24706	4,279873	0,006494	0,029003	-2,70525
EPN1	1,156495	6,341299	4,278086	0,006506	0,029047	-2,70729
U2SURP	0,56641	9,935719	4,2767	0,006515	0,029079	-2,70888
OAT	-0,94798	6,706719	-4,27488	0,006527	0,029122	-2,71096
PTBP3	-0,61389	10,02169	-4,27462	0,006529	0,029122	-2,71126
VSIG4	-2,04309	1,021547	-4,27302	0,00654	0,02916	-2,71309
STRBP	0,639076	7,717496	4,272735	0,006542	0,02916	-2,71341

KIF5B	-0,61891	9,731148	-4,27193	0,006547	0,029174	-2,71434
ZNRF3	2,647691	3,895261	4,270523	0,006556	0,029207	-2,71594
RPS6	0,515229	12,20514	4,268525	0,00657	0,029251	-2,71823
PQLC3	-2,03815	6,73761	-4,26841	0,00657	0,029251	-2,71836
CHI3L1	-4,16728	3,190949	-4,26775	0,006575	0,029262	-2,71911
MSH4	3,796006	2,231336	4,26724	0,006578	0,029268	-2,7197
EFR3A	-1,11952	8,688974	-4,26542	0,006591	0,029313	-2,72178
BAG5	0,588845	8,062105	4,25994	0,006627	0,02946	-2,72806
NDUFA1	-0,76344	9,62778	-4,2599	0,006628	0,02946	-2,72811
CALCOCO2	-0,84524	8,491005	-4,25956	0,00663	0,029461	-2,7285
ZDHHC2	0,656848	6,86005	4,257666	0,006643	0,029509	-2,73067
ACOX3	-1,67351	4,334037	-4,25706	0,006647	0,029509	-2,73136
C2orf68	0,752527	5,997473	4,257041	0,006647	0,029509	-2,73139
SHCBP1	2,435571	3,486904	4,256248	0,006653	0,029524	-2,7323
FBXW5	-1,80959	5,538168	-4,25387	0,006669	0,029586	-2,73502
SNRNP200	0,559407	8,740183	4,252549	0,006678	0,029617	-2,73654
RCN2	0,535626	8,128634	4,251077	0,006688	0,029652	-2,73823
REN	2,187414	1,42704	4,250247	0,006693	0,029668	-2,73918
VAMP3	-0,96718	6,481035	-4,24955	0,006698	0,02968	-2,73998
PLEKHA5	1,142832	6,74752	4,249079	0,006701	0,029681	-2,74052
ACTR2	-0,54667	10,91478	-4,24892	0,006703	0,029681	-2,7407
KLF10	-0,87203	7,770196	-4,24759	0,006712	0,029712	-2,74223
SNHG1	0,857879	8,602077	4,24648	0,006719	0,029736	-2,7435
ZNF160	0,58509	6,836301	4,245359	0,006727	0,029761	-2,74479
RNF216	0,583204	7,87278	4,244789	0,006731	0,029769	-2,74544
DNAH6	2,896957	2,643466	4,243162	0,006742	0,029803	-2,74731
UPF1	0,743358	7,254693	4,243068	0,006743	0,029803	-2,74742
RWDD3	-2,13077	1,065386	-4,24268	0,006745	0,029805	-2,74786
FHAD1	-3,38794	3,027301	-4,24218	0,006749	0,029811	-2,74844
TRIM27	0,573389	7,341647	4,239504	0,006767	0,029883	-2,75151
CYP1B1-AS1	2,28875	2,339362	4,237281	0,006783	0,029942	-2,75407
KPNA1	0,649866	7,462601	4,235512	0,006795	0,029987	-2,7561
HMG20A	0,537025	7,075714	4,230134	0,006833	0,030143	-2,76229
MAL	0,778412	6,795324	4,229776	0,006835	0,030145	-2,7627
CD3E	0,624928	7,69628	4,22729	0,006853	0,030213	-2,76556
PHPT1	-3,33826	3,443107	-4,22622	0,00686	0,030235	-2,76679
HAUS6	0,995245	7,263775	4,225962	0,006862	0,030235	-2,76709
ACOT13	-2,0666	5,942038	-4,22538	0,006866	0,030239	-2,76776
LYL1	-1,25016	4,151519	-4,22522	0,006867	0,030239	-2,76794
AGRN	-2,04309	1,549868	-4,2247	0,006871	0,03024	-2,76854
CREB3L2	-0,57062	7,195529	-4,22458	0,006872	0,03024	-2,76867
VTI1B	-0,59344	7,76297	-4,22409	0,006875	0,030246	-2,76924
BST1	-4,58691	4,508073	-4,22328	0,006881	0,030261	-2,77017
MAD2L1	0,957083	5,97715	4,22301	0,006883	0,030261	-2,77048
CDKN2A	1,481442	4,043018	4,221808	0,006891	0,030287	-2,77187
MS4A14	-2,51477	1,785708	-4,22154	0,006893	0,030287	-2,77217
CYFIP1	-4,74006	4,972484	-4,2211	0,006896	0,030287	-2,77268
EPHA4	0,794244	6,613016	4,220954	0,006897	0,030287	-2,77285
LYG2	3,438761	1,71938	4,218324	0,006916	0,030359	-2,77588
TRIM16	1,664681	4,235085	4,216689	0,006928	0,030398	-2,77777
FAM83C	2,904749	1,452374	4,215802	0,006934	0,030398	-2,77879
LINC00301	2,904749	1,452374	4,215802	0,006934	0,030398	-2,77879

LRR8E	2,904749	1,452374	4,215802	0,006934	0,030398	-2,77879
STARD9	-1,2518	4,378364	-4,2155	0,006936	0,030398	-2,77913
FLOT1	-1,29946	5,512634	-4,21526	0,006938	0,030398	-2,77941
PCDHB16	2,760128	2,908385	4,208822	0,006984	0,030588	-2,78684
SH3BGRL	-0,78212	8,549899	-4,20861	0,006985	0,030588	-2,78708
PRPF18	0,522658	7,800306	4,208191	0,006988	0,030592	-2,78757
CD28	0,621486	7,407132	4,207117	0,006996	0,030599	-2,7888
MAT2A	-1,13368	4,521052	-4,20711	0,006996	0,030599	-2,78882
VPS18	-1,54421	3,546081	-4,20677	0,006999	0,030599	-2,7892
HAPLN1	2,298169	4,84667	4,20675	0,006999	0,030599	-2,78923
RFT1	-1,31321	4,890662	-4,20508	0,007011	0,030642	-2,79115
PTGR1	-3,06935	2,998782	-4,20479	0,007013	0,030642	-2,79149
SH3PXD2A	1,390014	6,616696	4,20325	0,007024	0,030663	-2,79327
SLC22A15	-3,61725	3,68991	-4,20305	0,007025	0,030663	-2,7935
HLA-A	-0,73721	11,44461	-4,20303	0,007026	0,030663	-2,79353
CXCR2P1	-2,27134	4,457597	-4,20264	0,007028	0,030663	-2,79397
CSF2RA	-2,48946	4,673967	-4,20261	0,007029	0,030663	-2,79401
ZNF860	1,588512	2,958207	4,201546	0,007036	0,030687	-2,79523
TRAIP	-2,11328	1,389975	-4,19897	0,007055	0,030755	-2,79821
MYT1L	2,194152	2,95873	4,198783	0,007056	0,030755	-2,79843
RASAL2	-1,58829	5,186877	-4,1981	0,007061	0,030755	-2,79922
CBWD1	-0,8943	4,39039	-4,1978	0,007063	0,030755	-2,79957
SLC2A14	3,27126	1,968964	4,197773	0,007064	0,030755	-2,79959
IL20RB	2,769952	2,579963	4,197473	0,007066	0,030755	-2,79994
NXT2	-0,84319	6,728735	-4,19691	0,00707	0,030755	-2,80059
RAB8B	0,753627	8,953685	4,196738	0,007071	0,030755	-2,80079
SLC38A1	0,522189	10,06758	4,196716	0,007071	0,030755	-2,80081
TMEM128	0,740696	6,74189	4,195524	0,00708	0,030781	-2,80219
RAPGEF6	0,817236	6,965116	4,19531	0,007082	0,030781	-2,80244
ZNF267	0,85747	8,480218	4,194077	0,007091	0,03081	-2,80386
TAZ	0,672336	6,077926	4,192711	0,007101	0,030844	-2,80544
GIMAP1	0,700473	8,589198	4,192173	0,007105	0,030852	-2,80606
IFI44L	-0,69823	6,62204	-4,19095	0,007113	0,030881	-2,80748
UCKL1	-1,32143	4,894772	-4,19022	0,007119	0,030895	-2,80832
DOT1L	-1,84194	4,960403	-4,18875	0,00713	0,030932	-2,81003
LYPLAL1	-0,65858	5,48567	-4,18835	0,007133	0,030936	-2,81049
CHMP6	-1,28689	3,409847	-4,18718	0,007141	0,030963	-2,81183
KCNJ6	2,376428	2,628857	4,184865	0,007158	0,031028	-2,81452
EMP3	-0,83601	7,09698	-4,184	0,007165	0,031046	-2,81552
ITPKB	1,128803	6,260001	4,182797	0,007174	0,031072	-2,81691
EIF3D	0,602221	8,747109	4,182582	0,007175	0,031072	-2,81716
WDR19	1,675377	5,862193	4,182261	0,007178	0,031073	-2,81753
WDR73	0,983526	6,160772	4,18086	0,007188	0,031093	-2,81915
ADNP2	-0,63751	7,04526	-4,18079	0,007188	0,031093	-2,81923
MYO1A	3,892793	2,27973	4,180749	0,007189	0,031093	-2,81928
CD320	1,745794	4,475348	4,180325	0,007192	0,031097	-2,81977
RGS16	2,794362	3,861287	4,178214	0,007208	0,031155	-2,82222
HNRNPA1L	1,213968	5,033134	4,177933	0,00721	0,031155	-2,82254
SNAPC2	-1,405	3,468905	-4,17667	0,007219	0,031186	-2,82401
CEP85	-1,08413	5,054956	-4,1743	0,007237	0,031246	-2,82675
P2RY2	-1,93578	0,967892	-4,17392	0,00724	0,031246	-2,82719
QPCTL	-1,93578	0,967892	-4,17392	0,00724	0,031246	-2,82719

CXXC1	0,598326	6,855198	4,17352	0,007243	0,03125	-2,82766
DNAJA2	0,679965	8,22785	4,173122	0,007246	0,031253	-2,82812
CAV1	1,466644	3,563939	4,172827	0,007248	0,031253	-2,82846
GPAM	1,100652	6,31798	4,171827	0,007255	0,031276	-2,82962
SMG9	-0,89956	4,564547	-4,17063	0,007264	0,031305	-2,83101
ZNF84	0,78629	5,765422	4,169132	0,007276	0,031344	-2,83274
CPEB4	-0,88186	7,440644	-4,16805	0,007284	0,03137	-2,834
ZSWIM6	-0,89704	7,269267	-4,16604	0,007299	0,031425	-2,83633
SLC25A36	0,556958	8,520087	4,165048	0,007306	0,031448	-2,83748
CASS4	1,111612	5,169923	4,164245	0,007312	0,031464	-2,83841
GIMAP5	1,074986	5,971563	4,163904	0,007315	0,031464	-2,83881
STK16	1,255901	5,717489	4,162667	0,007324	0,031464	-2,84024
RPL7L1	0,558571	7,6151	4,161455	0,007334	0,031464	-2,84165
RAD54L2	0,560299	7,001045	4,16134	0,007334	0,031464	-2,84178
UBR1	0,581806	8,438071	4,160925	0,007338	0,031464	-2,84227
RNF125	-0,89442	6,535642	-4,16006	0,007344	0,031464	-2,84327
QSOX2	1,093257	5,900869	4,159976	0,007345	0,031464	-2,84337
METTL16	0,565429	6,555226	4,159811	0,007346	0,031464	-2,84356
GLYCTK	-2,2049	1,102452	-4,15942	0,007349	0,031464	-2,84402
HSD17B14	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
SPTA1	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
VSTM1	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
CTTNBP2	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
PLEKHN1	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
ANG	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
KCNJ2-AS1	-1,72331	0,861654	-4,15941	0,007349	0,031464	-2,84402
GALNT1	-1,00156	7,910026	-4,15928	0,00735	0,031464	-2,84418
CKS2	0,99308	4,45793	4,158555	0,007356	0,031478	-2,84502
SF3B2	0,561753	9,148558	4,157427	0,007364	0,031505	-2,84633
ORMDL3	0,648474	7,003162	4,154754	0,007385	0,031583	-2,84943
USP46	-1,53957	4,753548	-4,15363	0,007393	0,031606	-2,85074
EPAS1	-2,35805	2,179024	-4,15317	0,007397	0,031606	-2,85128
SCUBE2	2,358939	1,512803	4,153159	0,007397	0,031606	-2,85129
TAF2	0,560213	7,250577	4,152525	0,007402	0,031618	-2,85202
ACER3	-1,17053	5,407037	-4,15218	0,007404	0,031619	-2,85242
NCOA5	0,748792	7,076584	4,149664	0,007424	0,031692	-2,85535
SMYD4	0,934101	5,068293	4,148875	0,00743	0,031702	-2,85627
MAD2L1BP	0,73691	5,590298	4,148676	0,007431	0,031702	-2,8565
ZNF629	-1,37502	3,892415	-4,1485	0,007433	0,031702	-2,85671
ZCCHC2	-0,51225	8,622006	-4,14818	0,007435	0,031703	-2,85708
RHOA	-0,5395	10,20413	-4,1472	0,007443	0,031726	-2,85822
H6PD	-1,28258	5,079675	-4,14628	0,00745	0,031746	-2,85928
SRP68	0,618055	6,614577	4,145706	0,007454	0,031756	-2,85995
ALDH5A1	0,74371	6,249037	4,144503	0,007464	0,031786	-2,86135
ZFP36L1	-0,51543	10,95161	-4,14314	0,007474	0,031821	-2,86293
GSDMB	1,017346	5,33229	4,141713	0,007485	0,031859	-2,8646
GPN2	1,208882	5,680413	4,141193	0,007489	0,031866	-2,8652
ZCCHC7	0,671382	7,271736	4,139126	0,007505	0,031925	-2,86761
RRAS	-3,63324	3,809046	-4,13715	0,007521	0,031977	-2,86991
AICDA	2,965612	3,118436	4,136998	0,007522	0,031977	-2,87009
MFSD8	0,733074	6,951974	4,136664	0,007525	0,031978	-2,87048
MYL5	3,024	2,952642	4,135223	0,007536	0,032016	-2,87215

PIP4K2A	0,53989	9,266562	4,1336	0,007549	0,032058	-2,87404
PRDM2	0,726398	8,934765	4,133409	0,00755	0,032058	-2,87427
DHX15	0,595512	8,041026	4,133072	0,007553	0,032059	-2,87466
GNAL	0,964862	4,38718	4,130013	0,007577	0,032152	-2,87822
C2orf49	0,715118	7,08461	4,129659	0,00758	0,032154	-2,87864
NRXN1	2,152171	3,906703	4,128806	0,007586	0,032173	-2,87963
ODAM	2,464106	1,232053	4,128066	0,007592	0,032178	-2,88049
ZNF114	2,464106	1,232053	4,128066	0,007592	0,032178	-2,88049
ICAM1	-2,02648	5,391811	-4,12763	0,007596	0,032183	-2,881
MBLAC2	0,854166	6,039297	4,126051	0,007608	0,03222	-2,88284
RFX4	3,314362	3,047156	4,125942	0,007609	0,03222	-2,88297
USH2A	2,899945	3,775732	4,124151	0,007623	0,032266	-2,88506
PTCD2	1,060775	5,903638	4,124019	0,007624	0,032266	-2,88521
LBH	0,713029	9,805634	4,123121	0,007631	0,032275	-2,88626
YIPF5	0,698565	7,993535	4,122965	0,007632	0,032275	-2,88644
ETS2	-1,01501	7,210781	-4,12286	0,007633	0,032275	-2,88656
CHST11	-0,64045	8,535347	-4,12002	0,007656	0,032361	-2,88988
CCDC66	0,589965	8,31188	4,117633	0,007675	0,032426	-2,89267
PPP3CC	0,582639	7,270232	4,117519	0,007676	0,032426	-2,8928
GLUD2	-1,79744	1,232053	-4,11712	0,007679	0,03243	-2,89326
PRKACA	-1,60472	6,593568	-4,1164	0,007685	0,032445	-2,89411
EDNRA	1,973664	3,589283	4,114652	0,007699	0,032494	-2,89615
MNAT1	0,534435	6,600945	4,114182	0,007703	0,0325	-2,89669
NEK11	2,261424	2,96133	4,113697	0,007707	0,032507	-2,89726
LMNA	-3,77136	5,911733	-4,11051	0,007732	0,032605	-2,90098
PBX4	1,305186	5,295679	4,110257	0,007734	0,032605	-2,90128
ARL8A	-0,99203	8,536368	-4,10911	0,007743	0,032634	-2,90262
COL4A3BP	-0,55985	8,532287	-4,10841	0,007749	0,032648	-2,90344
SUGT1	-0,56369	8,091226	-4,10529	0,007774	0,032745	-2,90709
MPHOSPH6	-2,26079	5,943239	-4,10467	0,007779	0,032756	-2,90782
CNBP	0,524885	9,650611	4,104266	0,007783	0,03276	-2,90828
ANKRD50	-2,30867	3,318284	-4,10376	0,007787	0,032761	-2,90888
SLC22A23	0,835098	4,222444	4,103502	0,007789	0,032761	-2,90918
TTF2	-0,76145	6,153462	-4,10339	0,00779	0,032761	-2,90931
MXD4	0,64946	7,197907	4,10167	0,007804	0,03281	-2,91132
FAM3C	-0,9911	6,734123	-4,10078	0,007811	0,032829	-2,91236
STARD4	-2,34194	5,556225	-4,10055	0,007813	0,032829	-2,91263
ZNF131	0,530066	8,24917	4,099252	0,007824	0,032864	-2,91415
WDR1	-0,62872	8,031005	-4,09897	0,007826	0,032864	-2,91448
TFPI	-1,18281	2,967834	-4,09765	0,007837	0,032899	-2,91603
OLIG1	-2,55924	1,946287	-4,0965	0,007846	0,032919	-2,91737
CDC37L1	0,724869	6,582087	4,09613	0,007849	0,032919	-2,9178
CYP51A1	-2,19499	1,097494	-4,09595	0,007851	0,032919	-2,91802
AXL	-2,19499	1,097494	-4,09595	0,007851	0,032919	-2,91802
RNF167	0,984782	6,763698	4,095336	0,007856	0,03293	-2,91873
ABCC13	2,499506	3,885383	4,094292	0,007864	0,032956	-2,91996
DNM2	0,687594	7,117365	4,093204	0,007873	0,032984	-2,92123
RAB10	-0,52818	9,038193	-4,09267	0,007878	0,032992	-2,92186
TBPL1	0,591431	6,455974	4,091739	0,007885	0,033015	-2,92295
FAM117A	0,624403	8,252356	4,090892	0,007892	0,033034	-2,92394
RAP1GDS1	-0,85179	6,340841	-4,08997	0,0079	0,033056	-2,92502
NPC1L1	3,561291	1,780645	4,088852	0,007909	0,033075	-2,92633

TMEM220	-0,87468	4,633579	-4,0887	0,00791	0,033075	-2,9265
ANKRD12	-0,6244	11,38726	-4,08859	0,007911	0,033075	-2,92664
IQGAP2	-0,69209	9,539156	-4,08814	0,007915	0,03308	-2,92716
NSUN2	0,511894	8,74602	4,087384	0,007921	0,033097	-2,92805
MN1	1,868758	4,700782	4,086656	0,007927	0,033108	-2,9289
IMPG2	3,471562	3,53322	4,086492	0,007929	0,033108	-2,92909
ZNF678	-1,92052	3,967714	-4,08599	0,007933	0,033116	-2,92969
LRBA	0,885525	6,876416	4,085407	0,007938	0,033126	-2,93037
ANKRD20A	2,655261	1,660964	4,084893	0,007942	0,033134	-2,93097
CTU2	-2,34813	2,369053	-4,08351	0,007953	0,033172	-2,93259
CCPG1	-2,47738	5,766893	-4,08277	0,00796	0,033188	-2,93346
EFNB2	2,881285	2,497284	4,082016	0,007966	0,033205	-2,93434
BANP	1,099526	7,830723	4,08094	0,007975	0,033224	-2,93561
RHOBTB3	-0,99311	5,512204	-4,08091	0,007975	0,033224	-2,93564
TTC28-AS1	1,053248	5,918669	4,08013	0,007982	0,033241	-2,93656
COPS7A	-1,06268	6,72366	-4,07929	0,007989	0,03326	-2,93754
ZNF530	1,723308	2,63563	4,078386	0,007996	0,033276	-2,9386
CAMKK2	-2,25135	4,720551	-4,07826	0,007997	0,033276	-2,93875
NKG7	0,814055	7,597168	4,07799	0,007999	0,033276	-2,93907
LIPC	3,253111	2,821543	4,077542	0,008003	0,033281	-2,93959
GMFB	-0,94871	6,109169	-4,0773	0,008005	0,033281	-2,93988
TIMD4	2,660575	2,386929	4,076447	0,008012	0,03329	-2,94088
POLR2M	0,787812	7,171867	4,076281	0,008014	0,03329	-2,94107
CCM2	0,680033	7,195601	4,076201	0,008014	0,03329	-2,94117
MT1E	2,635908	3,707929	4,075416	0,008021	0,033307	-2,94209
TMEM179E	-0,56207	7,057643	-4,07418	0,008032	0,033341	-2,94354
EFNA3	-2,10731	1,053655	-4,07286	0,008043	0,033377	-2,94509
RBM27	0,603261	8,668239	4,072074	0,008049	0,033395	-2,94601
P4HA2	2,127601	4,566399	4,069118	0,008074	0,033477	-2,94948
TEX15	2,546748	3,135028	4,069106	0,008074	0,033477	-2,9495
XPO4	0,577626	6,621671	4,068897	0,008076	0,033477	-2,94974
ABCC2	4,094914	4,039884	4,066595	0,008096	0,033548	-2,95245
PFAS	-2,59028	2,597435	-4,06618	0,008099	0,033553	-2,95294
C1orf109	1,372673	4,819251	4,065777	0,008103	0,033557	-2,95341
EEFSEC	-1,01886	2,724049	-4,06442	0,008114	0,033594	-2,95501
NOP58	0,642436	9,396243	4,064183	0,008116	0,033594	-2,95528
STATH	2,30666	4,089115	4,061322	0,008141	0,033685	-2,95865
HOXA10	-2,26912	1,134559	-4,05938	0,008157	0,033744	-2,96093
GIGYF2	0,540096	9,200637	4,055629	0,008189	0,033867	-2,96534
PPARGC1B	-4,05758	4,297908	-4,05485	0,008196	0,033878	-2,96626
KIAA0391	1,035949	5,37122	4,054756	0,008197	0,033878	-2,96637
XPC	0,586827	8,377665	4,05404	0,008203	0,033894	-2,96721
NOLC1	0,512658	7,863204	4,052532	0,008216	0,033928	-2,96899
SLC9A5	3,542207	1,771104	4,052526	0,008216	0,033928	-2,969
COPZ2	2,025605	1,346136	4,050942	0,00823	0,033955	-2,97086
MRVI1	2,025605	1,346136	4,050942	0,00823	0,033955	-2,97086
OR8S1	2,025605	1,346136	4,050942	0,00823	0,033955	-2,97086
EIF2B1	-0,91741	6,297626	-4,05023	0,008236	0,03397	-2,9717
EIF2D	0,841504	6,518193	4,048731	0,008249	0,034014	-2,97347
YRDC	0,688905	7,001368	4,04838	0,008252	0,034017	-2,97388
FEM1A	1,120892	6,695666	4,047606	0,008259	0,034034	-2,97479
C5orf63	1,386917	4,919585	4,046625	0,008267	0,03406	-2,97595

FUT4	-3,79213	3,903519	-4,04457	0,008285	0,034123	-2,97837
FBXO24	3,218212	2,383082	4,04416	0,008289	0,034128	-2,97885
KLHDC2	0,513342	7,832479	4,043191	0,008297	0,034153	-2,97999
MOB3B	0,969106	6,317004	4,042071	0,008307	0,034183	-2,98131
SCAND1	-1,12032	4,377231	-4,04106	0,008316	0,03421	-2,9825
ZNF627	1,375092	4,913453	4,038959	0,008334	0,034276	-2,98499
PHF10	0,594736	8,685885	4,038194	0,008341	0,034293	-2,98589
GTF3C6	-1,88555	6,29836	-4,03547	0,008365	0,034382	-2,9891
RPUSD1	-2,23808	1,980695	-4,03493	0,00837	0,034391	-2,98973
BRI3BP	-0,9955	6,169819	-4,03257	0,008391	0,034461	-2,99252
FSD2	3,142409	3,432858	4,032459	0,008392	0,034461	-2,99265
UEVLD	0,699268	7,468643	4,032003	0,008396	0,034468	-2,99319
SNW1	0,513573	8,419869	4,031012	0,008404	0,034494	-2,99436
MYL6	-0,73564	8,928101	-4,03026	0,008411	0,034511	-2,99525
ELAVL1	0,646468	7,937793	4,029376	0,008419	0,034533	-2,99629
PANK3	-0,52468	7,489499	-4,02815	0,00843	0,034568	-2,99775
ZNF532	0,902824	5,608298	4,026749	0,008442	0,034609	-2,9994
PLIN2	-1,18808	6,729488	-4,02548	0,008454	0,034645	-3,0009
BTN2A1	0,669918	8,152758	4,024352	0,008464	0,034677	-3,00223
C9orf85	0,773863	5,738805	4,023148	0,008474	0,034711	-3,00365
CAPZA2	-0,61764	8,457957	-4,02166	0,008488	0,034755	-3,00541
SLC38A7	-1,48688	4,4532	-4,02081	0,008495	0,034776	-3,00642
DNAJC13	-0,58447	7,245384	-4,02044	0,008499	0,03478	-3,00686
ARPC2	-0,57411	10,97065	-4,01569	0,008541	0,034937	-3,01247
RWDD2B	1,105901	4,62802	4,015622	0,008542	0,034937	-3,01255
ARNTL	0,588511	7,883279	4,014811	0,008549	0,034957	-3,01351
RPL39	0,848483	10,16874	4,0139	0,008558	0,03498	-3,01459
TOX2	1,488602	5,346283	4,01095	0,008584	0,03508	-3,01808
AMN1	0,549899	6,717444	4,00883	0,008604	0,035148	-3,02059
DCX	1,511769	3,744479	4,008004	0,008611	0,035156	-3,02157
ANKAR	1,014695	4,9846	4,00777	0,008613	0,035156	-3,02184
MTHFD1	-1,40143	5,012928	-4,00736	0,008617	0,035156	-3,02233
RCAN1	-2,16395	5,45083	-4,00729	0,008618	0,035156	-3,02241
UNK	0,659202	5,915328	4,007267	0,008618	0,035156	-3,02244
CCND3	0,725763	7,302511	4,00529	0,008636	0,035198	-3,02478
UNKL	0,756782	6,470808	4,005201	0,008637	0,035198	-3,02489
SASH1	-2,39833	4,413782	-4,00506	0,008638	0,035198	-3,02506
LRRK1	-1,5182	4,468859	-4,00505	0,008638	0,035198	-3,02507
TIPARP	-0,68929	7,774958	-4,00465	0,008642	0,035202	-3,02554
FAM210B	-0,64189	6,894984	-4,00385	0,008649	0,035222	-3,02649
ATG16L2	-1,12142	7,550076	-4,00287	0,008658	0,035248	-3,02765
PABPC1L	1,457499	5,799037	4,002045	0,008666	0,035265	-3,02863
ZNF480	0,520546	6,442915	4,001892	0,008667	0,035265	-3,02881
CYB5D2	1,233918	4,806911	4,00126	0,008673	0,035278	-3,02956
C3orf58	-1,19066	6,07433	-4,00093	0,008676	0,03528	-3,02994
LINC00324	0,865478	6,539384	4,000021	0,008684	0,035304	-3,03102
MED8	-1,83055	5,543779	-3,9991	0,008693	0,035328	-3,03211
LEPROTL1	0,567909	9,85187	3,998447	0,008699	0,035333	-3,03289
KLHDC4	0,621472	6,225041	3,998445	0,008699	0,035333	-3,03289
ADCK1	-1,49728	1,081976	-3,99731	0,008709	0,035355	-3,03424
RASGRF1	-1,49728	1,081976	-3,99731	0,008709	0,035355	-3,03424
BRPF3	-1,03746	5,334078	-3,99626	0,008719	0,035384	-3,03549

LIMCH1	2,959009	2,674492	3,994394	0,008736	0,035444	-3,0377
NQO1	-0,80565	4,445919	-3,9926	0,008753	0,035501	-3,03983
RGP1	0,580903	8,459513	3,991801	0,00876	0,035521	-3,04077
PPIF	-1,5059	6,73671	-3,99059	0,008771	0,035547	-3,0422
ILF2	0,552809	8,382845	3,990439	0,008773	0,035547	-3,04239
GRIN2B	2,904383	3,842166	3,990312	0,008774	0,035547	-3,04254
SRSF5	-0,50976	10,95044	-3,98945	0,008782	0,035569	-3,04356
DOK1	-1,76521	5,479386	-3,98799	0,008796	0,035614	-3,0453
CMYA5	3,258994	3,265127	3,987217	0,008803	0,035633	-3,04621
MCPH1	0,810319	6,762495	3,986682	0,008808	0,035643	-3,04685
GNLY	0,932603	8,683717	3,985837	0,008816	0,035665	-3,04785
PREPL	0,621977	7,758422	3,983679	0,008836	0,035736	-3,05041
GPN1	-0,5781	7,484606	-3,98342	0,008839	0,035736	-3,05073
IFT88	0,64708	5,909506	3,981754	0,008854	0,035789	-3,0527
ZNF350	1,242373	5,965374	3,979945	0,008871	0,03584	-3,05485
FAM120A	-0,51969	10,04104	-3,97982	0,008872	0,03584	-3,055
BCL7A	0,813902	6,267547	3,979612	0,008874	0,03584	-3,05525
SMPD4	0,677429	7,000691	3,978617	0,008884	0,035867	-3,05643
GRK7	3,27126	1,63563	3,977189	0,008897	0,035912	-3,05813
HNRNPUL1	0,49747	8,657009	3,976509	0,008904	0,035927	-3,05894
CSNK1G3	0,699413	8,259089	3,976193	0,008907	0,035929	-3,05931
ZNF83	0,802424	6,323737	3,975056	0,008917	0,035962	-3,06066
RDH14	0,652797	7,090542	3,97263	0,00894	0,036043	-3,06355
WHAMMP2	1,035633	6,00035	3,972416	0,008942	0,036043	-3,0638
AGAP3	-2,00083	7,409849	-3,97212	0,008945	0,036044	-3,06416
MRRF	1,206927	6,129372	3,971481	0,008951	0,036055	-3,06492
RNF103	0,762924	6,138288	3,971302	0,008953	0,036055	-3,06513
GRIN2A	2,572787	3,727036	3,970342	0,008962	0,036081	-3,06627
STX10	-0,68944	5,790501	-3,96957	0,00897	0,036101	-3,06719
RAB5C	-0,53206	7,786406	-3,96916	0,008973	0,036106	-3,06767
RYR1	2,948497	2,581558	3,967811	0,008986	0,036139	-3,06928
C11orf71	1,174881	6,147872	3,967645	0,008988	0,036139	-3,06948
CHST1	2,440643	1,553655	3,967491	0,008989	0,036139	-3,06966
CCDC18	0,734689	7,203536	3,966736	0,008997	0,036158	-3,07056
ABT1	0,609244	7,038483	3,96648	0,008999	0,036158	-3,07087
FAM98B	-0,91141	6,570587	-3,96493	0,009014	0,036207	-3,07271
USP36	0,602467	8,305418	3,964068	0,009022	0,03623	-3,07374
HLA-B	-0,56374	12,32961	-3,96255	0,009037	0,036273	-3,07555
RPS6KA3	0,501403	9,174739	3,962424	0,009038	0,036273	-3,0757
BCDIN3D	1,343327	5,387398	3,961788	0,009044	0,036287	-3,07645
RIC3	1,465478	5,003999	3,958771	0,009073	0,036394	-3,08005
AGTRAP	-3,40331	3,582942	-3,95849	0,009076	0,036394	-3,08038
RPS15AP1C	1,344299	3,802922	3,958114	0,00908	0,036399	-3,08083
ABCA13	3,292172	3,517656	3,957128	0,009089	0,036416	-3,08201
PIAS2	0,854189	7,168438	3,956875	0,009092	0,036416	-3,08231
CISH	-2,776	5,661792	-3,95686	0,009092	0,036416	-3,08233
USP39	0,736454	6,514545	3,955838	0,009102	0,036446	-3,08354
CANX	-0,49795	10,214	-3,954	0,00912	0,036507	-3,08574
PRRT2	1,947883	4,662189	3,952858	0,009131	0,036526	-3,0871
USP31	-1,86447	4,125343	-3,95279	0,009131	0,036526	-3,08718
SEC31A	-0,65131	8,239487	-3,9525	0,009134	0,036526	-3,08752
OTUD7B	1,313519	5,199879	3,952444	0,009135	0,036526	-3,08759

SERF2	-0,58042	9,39774	-3,95217	0,009137	0,036526	-3,08792
COQ4	0,980946	5,323215	3,950438	0,009154	0,036573	-3,08998
FLNA	-0,92991	8,767	-3,95043	0,009154	0,036573	-3,09
EVL	0,519055	9,178423	3,950174	0,009157	0,036573	-3,0903
ZBTB24	0,654085	7,300321	3,949172	0,009167	0,036602	-3,09149
HMGCR	-0,67492	6,552509	-3,94865	0,009172	0,036604	-3,09212
HK1	-0,50179	6,864226	-3,94859	0,009172	0,036604	-3,09219
LARP4B	0,541006	8,864667	3,94796	0,009179	0,036618	-3,09294
FANCC	1,448493	4,026543	3,946584	0,009192	0,036662	-3,09458
ELF1	0,476019	9,740499	3,946135	0,009196	0,036669	-3,09512
CRTAM	0,653126	8,051421	3,944578	0,009212	0,03672	-3,09698
GDF15	-2,62345	1,645061	-3,94395	0,009218	0,036734	-3,09772
CNIH3	2,866018	2,099675	3,942817	0,009229	0,036766	-3,09908
UQCRH	0,4866	8,998763	3,942601	0,009231	0,036766	-3,09934
ZNF134	0,749138	5,842567	3,942299	0,009234	0,036768	-3,0997
ROMO1	-1,09364	6,615134	-3,94199	0,009237	0,03677	-3,10007
ZNF438	-2,17002	5,063889	-3,9417	0,00924	0,036771	-3,10042
ABI3	-2,4946	4,336227	-3,94052	0,009252	0,036806	-3,10182
SHC3	3,166172	2,111407	3,939272	0,009264	0,036831	-3,10331
SPAG5-AS1	2,695821	2,45522	3,938957	0,009267	0,036831	-3,10369
NEXN	1,291005	6,304387	3,938922	0,009268	0,036831	-3,10373
URI1	0,545023	9,010553	3,938802	0,009269	0,036831	-3,10387
CD40LG	1,001506	5,685616	3,938585	0,009271	0,036831	-3,10413
SLFN12	-2,85194	4,414564	-3,93691	0,009288	0,036882	-3,10614
FSCN1	-2,52207	4,706165	-3,93651	0,009291	0,036882	-3,10661
GALNS	-2,37454	5,683049	-3,93649	0,009292	0,036882	-3,10663
WARS2	0,641632	6,151332	3,935762	0,009299	0,036901	-3,10751
ASPRV1	2,686298	2,645446	3,934567	0,009311	0,036926	-3,10893
HLX	-2,39498	4,549249	-3,93447	0,009312	0,036926	-3,10904
TMEM175	-2,52075	2,701016	-3,93432	0,009313	0,036926	-3,10923
IKBIP	-2,02171	5,773905	-3,93403	0,009316	0,036927	-3,10957
CASP9	-3,38819	3,575382	-3,93265	0,00933	0,036965	-3,11123
RILPL2	-0,78738	7,170149	-3,93255	0,009331	0,036965	-3,11135
ABAT	1,020124	5,39397	3,930958	0,009347	0,037018	-3,11325
TMPRSS15	3,28875	2,506029	3,929811	0,009358	0,037053	-3,11462
MYBPC1	2,376428	2,295523	3,929237	0,009364	0,037065	-3,11531
LHFPL4	2	1	3,928028	0,009376	0,037093	-3,11675
NWD1	2	1	3,928028	0,009376	0,037093	-3,11675
ZNF689	0,846828	6,040574	3,927366	0,009383	0,037109	-3,11755
MAP2K6	-0,48894	5,990031	-3,92628	0,009394	0,037141	-3,11884
SMN1	1,157005	4,980535	3,923363	0,009423	0,037233	-3,12234
MPDZ	2,952956	2,745596	3,923258	0,009424	0,037233	-3,12246
KIF1C	-1,54446	5,964551	-3,9232	0,009425	0,037233	-3,12253
RPL17	1,653217	5,111694	3,921401	0,009443	0,037294	-3,12469
POLR1E	0,74177	4,881995	3,920239	0,009455	0,037323	-3,12608
PBRM1	-0,53086	9,329127	-3,92016	0,009456	0,037323	-3,12617
ORC3	1,170502	5,642284	3,916978	0,009488	0,03744	-3,12998
AP1S3	1,619509	4,212499	3,911955	0,009539	0,037632	-3,136
ZNF551	1,033081	5,955743	3,91164	0,009542	0,037634	-3,13638
ITGB3BP	0,624749	6,200561	3,910004	0,009559	0,037689	-3,13834
VGLL4	0,654132	7,131697	3,909475	0,009564	0,0377	-3,13898
IST1	0,54217	8,591755	3,907894	0,009581	0,037754	-3,14087

SLC9A1	-1,57804	3,767901	-3,9076	0,009584	0,037755	-3,14122
OXNAD1	0,497736	7,338333	3,906251	0,009598	0,03778	-3,14284
INTS7	-3,24226	3,451749	-3,90619	0,009598	0,03778	-3,14292
MARCKSL1	-1,03192	6,733234	-3,90596	0,009601	0,03778	-3,14319
HECTD3	-2,07455	3,747037	-3,90528	0,009608	0,03778	-3,144
STOX1	2,520747	1,593707	3,904937	0,009611	0,03778	-3,14442
GJB6	2,520747	1,593707	3,904937	0,009611	0,03778	-3,14442
ABI3BP	2,163951	1,081976	3,904143	0,009619	0,03778	-3,14537
BPIFC	2,163951	1,081976	3,904143	0,009619	0,03778	-3,14537
HORMAD2	2,163951	1,081976	3,904143	0,009619	0,03778	-3,14537
PKD2L2	2,163951	1,081976	3,904143	0,009619	0,03778	-3,14537
PMCHL1	2,163951	1,081976	3,904143	0,009619	0,03778	-3,14537
PLCG2	0,600691	7,367163	3,903571	0,009625	0,037792	-3,14606
TMEM150A	-3,41469	3,147987	-3,90282	0,009633	0,037812	-3,14696
ASB5	3,287029	1,643514	3,902038	0,009641	0,037823	-3,1479
ITGA9	3,287029	1,643514	3,902038	0,009641	0,037823	-3,1479
POLR1B	0,86806	6,234709	3,901421	0,009648	0,037833	-3,14864
NUMBL	1,261671	4,379947	3,901277	0,009649	0,037833	-3,14881
SGPL1	-1,00713	6,455893	-3,899	0,009673	0,037915	-3,15154
CDYL2	0,752491	5,313638	3,898064	0,009682	0,037932	-3,15267
GNPTG	-1,19404	6,809378	-3,89797	0,009683	0,037932	-3,15279
PPP2CA	0,520324	8,67393	3,897823	0,009685	0,037932	-3,15296
CTNS	-3,77697	2,995796	-3,89531	0,009711	0,038016	-3,15598
ZNF587	1,147024	6,920634	3,895257	0,009712	0,038016	-3,15604
PARN	0,838869	6,714814	3,89417	0,009723	0,038049	-3,15735
KDM4C	0,660133	7,311109	3,892988	0,009735	0,038087	-3,15876
DDOST	0,705506	7,503186	3,892431	0,009741	0,038097	-3,15943
KDM6A	0,869235	6,502808	3,892239	0,009743	0,038097	-3,15967
FAM122B	0,559175	7,65237	3,887246	0,009796	0,038292	-3,16567
WDR82	0,516273	9,49096	3,886031	0,009809	0,038331	-3,16713
LY86-AS1	3,225907	2,27962	3,88512	0,009818	0,038352	-3,16822
UBR4	0,691933	7,759564	3,885015	0,009819	0,038352	-3,16835
ST3GAL1	0,586028	8,006199	3,884721	0,009822	0,038353	-3,1687
TMED9	-0,6357	8,888365	-3,88429	0,009827	0,03836	-3,16922
PLD5	2,708369	3,81829	3,882298	0,009848	0,038432	-3,17162
BTLA	0,755364	5,778696	3,881792	0,009853	0,038443	-3,17223
ASRGL1	-2,33679	4,891704	-3,88142	0,009857	0,038447	-3,17267
NOTCH1	-0,60454	7,028501	-3,88065	0,009866	0,038463	-3,1736
VANGL1	-2,52832	1,792481	-3,88054	0,009867	0,038463	-3,17373
CPT2	-0,86262	5,665729	-3,87982	0,009874	0,038482	-3,1746
RNU4ATAC	0,76418	7,723055	3,878381	0,00989	0,038531	-3,17633
ZMAT2	0,510479	9,897607	3,87803	0,009893	0,038535	-3,17676
PRKG2	1,334941	4,089733	3,87752	0,009899	0,038546	-3,17737
MLST8	-3,03443	2,850548	-3,87652	0,00991	0,038569	-3,17858
NSDHL	-3,01565	3,174492	-3,87644	0,00991	0,038569	-3,17867
PELI3	-2,24566	1,651148	-3,87529	0,009923	0,038606	-3,18005
PAXIP1	-0,59864	6,027907	-3,87385	0,009938	0,038647	-3,18178
MLH3	0,564973	6,014098	3,873562	0,009941	0,038647	-3,18214
SNRPB	0,528665	7,822428	3,873546	0,009941	0,038647	-3,18215
RUVBL1	0,864843	6,672923	3,872042	0,009958	0,03869	-3,18397
MRC2	1,159648	3,995404	3,872	0,009958	0,03869	-3,18402
IER5L	-2,65711	3,562034	-3,87148	0,009964	0,038701	-3,18464

TMEM159	-0,76002	4,505746	-3,87071	0,009972	0,038723	-3,18558
CD93	-3,37068	3,125984	-3,86894	0,009991	0,038784	-3,1877
EDEM2	-0,81324	5,695398	-3,86872	0,009993	0,038784	-3,18797
IQCK	1,325639	3,591031	3,868496	0,009996	0,038784	-3,18824
TOR2A	-3,7119	2,963261	-3,86806	0,01	0,038788	-3,18877
PTGES2	-3,55641	3,885516	-3,86789	0,010002	0,038788	-3,18897
MPP7	0,675198	6,30908	3,865786	0,010025	0,038865	-3,19151
TRIM25	-0,59547	7,344468	-3,86518	0,010032	0,03887	-3,19223
SNX3	-0,6916	8,357068	-3,86501	0,010033	0,03887	-3,19244
SRP9	0,557059	8,196897	3,864905	0,010035	0,03887	-3,19257
MFHAS1	0,500984	8,20856	3,864605	0,010038	0,038872	-3,19293
PER1	0,905203	6,23927	3,864044	0,010044	0,038885	-3,19361
ITGBL1	3,388675	3,084312	3,863556	0,010049	0,038895	-3,1942
TXLNG	0,643886	7,131362	3,863156	0,010054	0,038901	-3,19468
BRDT	2,074131	1,565386	3,862528	0,01006	0,038917	-3,19544
YWHAG	-0,63926	8,623039	-3,86185	0,010068	0,038935	-3,19626
RNF214	0,567286	7,122679	3,861521	0,010071	0,038938	-3,19665
NAA15	0,544321	7,62164	3,860959	0,010077	0,038951	-3,19733
LCP1	-0,49763	10,47092	-3,85978	0,01009	0,038988	-3,19875
HPS4	0,625172	7,69873	3,8595	0,010093	0,038988	-3,19909
EIF3G	0,931503	7,410352	3,859323	0,010095	0,038988	-3,1993
NANS	-2,91138	5,165449	-3,85876	0,010101	0,039001	-3,19999
ABCB5	2,74294	1,37147	3,857721	0,010113	0,039024	-3,20124
ZNF814	0,721936	4,230078	3,857703	0,010113	0,039024	-3,20126
FRAT2	-1,00803	5,980997	-3,85687	0,010122	0,039049	-3,20226
CCDC30	2,321277	5,18924	3,856481	0,010126	0,039055	-3,20273
CCDC102B	1,124276	4,496041	3,853617	0,010158	0,039165	-3,20619
MUTYH	1,117025	3,870725	3,853342	0,010161	0,039166	-3,20652
ZNF626	1,831103	5,420292	3,852145	0,010174	0,039206	-3,20797
GLS	-0,4732	9,187709	-3,8509	0,010188	0,039248	-3,20947
SLC6A6	-1,01688	7,712133	-3,85064	0,01019	0,039249	-3,20979
PRADC1	-2,11328	2,251629	-3,85033	0,010194	0,039251	-3,21015
STX12	-0,53871	6,922407	-3,84907	0,010208	0,039294	-3,21168
MIER1	0,619428	9,169895	3,844891	0,010254	0,039458	-3,21673
MANEA	-1,28048	5,415929	-3,84473	0,010256	0,039458	-3,21693
NUP210	0,848635	7,796865	3,84253	0,01028	0,039533	-3,21959
GPR89B	-2,72331	2,13563	-3,84246	0,010281	0,039533	-3,21967
POC1A	-2,3023	1,151148	-3,84189	0,010287	0,039547	-3,22036
RRN3P1	0,648475	4,822773	3,841285	0,010294	0,039562	-3,22109
ZNF200	0,757482	6,841074	3,839175	0,010318	0,039626	-3,22365
PIK3R1	0,464885	10,80244	3,838972	0,01032	0,039626	-3,22389
EFCAB6	3,006839	2,805716	3,838783	0,010322	0,039626	-3,22412
LPAR4	3,006839	2,805716	3,838783	0,010322	0,039626	-3,22412
CHL1	2,564237	2,672094	3,838364	0,010327	0,039626	-3,22463
TMEM38B	-0,9929	5,946537	-3,83828	0,010328	0,039626	-3,22472
METTL23	0,58059	6,894158	3,837468	0,010337	0,03965	-3,22571
COX7A2L	0,613516	8,127396	3,836518	0,010348	0,039681	-3,22686
NAPG	-0,61701	6,632652	-3,83491	0,010366	0,039739	-3,2288
ZNF638	0,510354	9,107176	3,833963	0,010376	0,039769	-3,22995
ARHGEF7	0,681058	7,465119	3,832947	0,010388	0,039795	-3,23118
HSD3B7	-3,11897	2,495272	-3,83286	0,010389	0,039795	-3,23129
MORN2	-2,65909	2,103523	-3,8316	0,010403	0,039834	-3,23282

HBP1	0,557502	8,297291	3,831463	0,010404	0,039834	-3,23298
RBM5	0,532536	8,893119	3,830835	0,010412	0,03985	-3,23374
GPATCH1	0,474089	5,964965	3,83046	0,010416	0,039856	-3,23419
FAT3	2,28875	2,780005	3,828754	0,010435	0,039919	-3,23626
ITGA3	1,957321	3,563623	3,828385	0,010439	0,039924	-3,23671
ENDOV	0,78516	4,498007	3,827917	0,010445	0,039933	-3,23727
DDB2	0,735602	6,540439	3,827104	0,010454	0,039958	-3,23826
UACA	-1,36294	4,587077	-3,82632	0,010463	0,039963	-3,23921
SCAF4	0,697212	7,138881	3,826259	0,010463	0,039963	-3,23928
MAP4K3	-1,44284	5,076333	-3,82625	0,010463	0,039963	-3,2393
SSRP1	0,546468	8,646989	3,824234	0,010486	0,040039	-3,24174
PTGIR	-3,25909	3,070185	-3,82382	0,010491	0,040046	-3,24223
CUL7	-1,67658	2,366612	-3,82358	0,010494	0,040046	-3,24253
TTC7B	-3,10856	2,944255	-3,82151	0,010518	0,040126	-3,24504
PJA1	0,624001	7,215817	3,820295	0,010531	0,040168	-3,24651
AWAT2	2,497284	1,248642	3,819229	0,010544	0,040203	-3,2478
KIAA0355	0,757856	7,334981	3,818097	0,010557	0,040242	-3,24918
ATRN	-1,09509	5,046497	-3,81781	0,01056	0,040243	-3,24952
TLR1	-0,76505	7,00675	-3,81666	0,010573	0,040283	-3,25092
TMEM60	-0,6316	5,7636	-3,81607	0,01058	0,040298	-3,25163
VEGFA	-1,82627	6,7338	-3,81569	0,010584	0,040304	-3,2521
FAU	0,464365	11,55327	3,814404	0,010599	0,040345	-3,25366
RFXANK	-1,93793	3,678725	-3,81396	0,010604	0,040345	-3,2542
SAMD12	1,288044	4,374786	3,813826	0,010606	0,040345	-3,25436
ZEB2	-0,69624	9,252645	-3,81316	0,010613	0,040345	-3,25516
AFF3	0,710915	6,541837	3,813015	0,010615	0,040345	-3,25534
OGT	0,709158	9,333554	3,813007	0,010615	0,040345	-3,25535
HEATR6	-1,60178	5,342336	-3,81286	0,010617	0,040345	-3,25553
MED26	1,231715	6,114393	3,812769	0,010618	0,040345	-3,25564
CTCFL	2,460274	2,091791	3,811847	0,010629	0,040364	-3,25676
MTRNR2L4	2,460274	2,091791	3,811847	0,010629	0,040364	-3,25676
LRPPRC	0,59008	8,238209	3,810802	0,010641	0,040393	-3,25803
MCRS1	-3,45544	2,72772	-3,81067	0,010642	0,040393	-3,2582
DSG2	-1,79744	0,89872	-3,80947	0,010656	0,040393	-3,25965
LIPT2	-1,79744	0,89872	-3,80947	0,010656	0,040393	-3,25965
RAB23	-1,79744	0,89872	-3,80947	0,010656	0,040393	-3,25965
CLDN7	-1,79744	0,89872	-3,80947	0,010656	0,040393	-3,25965
DYSF	-1,79744	0,89872	-3,80947	0,010656	0,040393	-3,25965
DDI2	0,564829	7,318644	3,808757	0,010664	0,040413	-3,26051
CEACAM21	1,285657	4,266283	3,807418	0,01068	0,040457	-3,26214
ELOVL1	-2,29603	4,417133	-3,80727	0,010682	0,040457	-3,26232
YDJC	0,520416	5,228702	3,806734	0,010688	0,040468	-3,26297
SLC30A8	2,591046	1,96219	3,806517	0,01069	0,040468	-3,26323
CP	2,314234	3,482877	3,806039	0,010696	0,040479	-3,26381
ELAVL4	2,524058	3,652004	3,805514	0,010702	0,040491	-3,26445
SAP30	-2,33554	5,438426	-3,80047	0,010761	0,040699	-3,27058
USP48	0,470603	9,383475	3,800325	0,010763	0,040699	-3,27076
PTX3	2,192258	4,329609	3,799581	0,010771	0,040721	-3,27166
ASCL2	-3,63471	4,031973	-3,79853	0,010784	0,040756	-3,27293
RAB8A	-0,7331	8,253217	-3,79737	0,010798	0,040797	-3,27435
APP	-0,58475	7,267849	-3,79704	0,010801	0,040801	-3,27475
LIPT1	0,533995	5,562722	3,79629	0,01081	0,040813	-3,27566

ZNF529	0,720187	6,428077	3,796286	0,01081	0,040813	-3,27567
CBLL1	0,635205	7,508668	3,794945	0,010826	0,040862	-3,2773
MTA1	0,718573	8,089195	3,794613	0,01083	0,040865	-3,2777
RBMXL1	0,689181	8,224931	3,79264	0,010853	0,040943	-3,2801
RIN2	-2,92091	5,94299	-3,78832	0,010905	0,041125	-3,28536
GFI1	0,880303	6,266918	3,787181	0,010918	0,041155	-3,28675
CCDC146	0,716234	6,802502	3,787157	0,010918	0,041155	-3,28678
DLGAP4	-1,18496	5,020851	-3,78575	0,010935	0,041208	-3,28849
RPN2	-0,53703	8,490492	-3,78501	0,010944	0,04123	-3,2894
B4GALT2	-2,12211	1,394387	-3,78478	0,010947	0,04123	-3,28968
IL12RB1	-2,42847	4,388754	-3,78419	0,010954	0,041242	-3,29039
OAZ2	-1,53067	6,92113	-3,78401	0,010956	0,041242	-3,29061
TFAM	0,517904	8,820528	3,778711	0,01102	0,041464	-3,29707
CHST2	-1,55235	6,315837	-3,77859	0,011021	0,041464	-3,29721
ADAM12	2,318065	3,363936	3,77837	0,011024	0,041464	-3,29748
HS2ST1	-0,66438	6,606128	-3,77781	0,011031	0,041478	-3,29816
NCKAP5L	-3,28641	3,524489	-3,77562	0,011057	0,041567	-3,30084
TBCB	-1,49187	5,420637	-3,77504	0,011064	0,041567	-3,30154
CD40	-0,59655	6,923203	-3,77495	0,011065	0,041567	-3,30165
HMGA1	-0,58531	7,180006	-3,77489	0,011066	0,041567	-3,30173
UNC50	0,557686	6,768164	3,773261	0,011086	0,04163	-3,30371
KRT23	3,092041	2,319997	3,771934	0,011102	0,041679	-3,30533
FAM173B	-2,60245	2,849178	-3,7717	0,011105	0,041679	-3,30562
FCRLB	-2	1,528321	-3,77135	0,011109	0,041679	-3,30604
PLAUR	-1,46735	8,083803	-3,77121	0,011111	0,041679	-3,30622
NEDD9	-0,79986	6,44712	-3,76947	0,011132	0,041744	-3,30833
SDF2L1	-2,90122	5,294564	-3,76929	0,011134	0,041744	-3,30855
TTLL7	2,172717	4,916976	3,768906	0,011139	0,041751	-3,30902
LAMP1	-0,49155	9,559545	-3,76846	0,011144	0,04176	-3,30957
NDC80	0,981311	5,640339	3,765756	0,011177	0,041873	-3,31287
SIGLEC9	-4,17318	3,35571	-3,76482	0,011188	0,041905	-3,31401
ATG4B	0,750122	7,277285	3,764301	0,011195	0,041918	-3,31465
TCP11L2	0,94566	6,585491	3,763536	0,011204	0,041942	-3,31558
VMP1	-0,53829	8,295626	-3,76222	0,01122	0,041991	-3,31719
RPS6KC1	-2,15418	4,628041	-3,76118	0,011233	0,042022	-3,31846
CRCP	0,567262	6,828497	3,76107	0,011235	0,042022	-3,31859
METAP2	0,475912	9,603534	3,760755	0,011238	0,042025	-3,31898
M6PR	-0,65724	7,18395	-3,75817	0,01127	0,042133	-3,32214
PDCD2	0,490466	8,195632	3,757348	0,01128	0,04216	-3,32314
RHBDF2	-1,21712	7,836094	-3,7563	0,011293	0,042197	-3,32441
DCAF8	0,739529	7,255221	3,755485	0,011304	0,042224	-3,32542
NOD2	-1,6643	4,799233	-3,75484	0,011312	0,042243	-3,3262
POMP	-0,55333	9,335527	-3,75412	0,01132	0,042265	-3,32708
GDF11	-0,69243	5,164894	-3,75274	0,011338	0,042318	-3,32878
FBXO38	0,577744	7,190227	3,751405	0,011354	0,042365	-3,33041
ZNF224	0,644905	6,20268	3,751252	0,011356	0,042365	-3,33059
AK5	1,856197	4,789752	3,750688	0,011363	0,04238	-3,33128
ARHGAP5-/-	2,82344	1,940041	3,749789	0,011374	0,042403	-3,33238
GRAP	0,972981	5,238732	3,749697	0,011376	0,042403	-3,33249
HIBADH	-1,5575	4,187152	-3,74938	0,01138	0,042407	-3,33288
MRPS27	0,47801	7,607501	3,748764	0,011387	0,042424	-3,33363
RRAS2	1,187031	6,111682	3,74854	0,01139	0,042424	-3,33391

RPLP2	0,45578	11,94866	3,744383	0,011442	0,042607	-3,339
FCHO2	-1,33577	5,391192	-3,74393	0,011448	0,042617	-3,33955
PTCD1	1,526887	5,09666	3,743325	0,011455	0,042625	-3,34029
XRCC6	0,495707	7,364068	3,74327	0,011456	0,042625	-3,34036
ZBED5	0,546859	7,42458	3,739681	0,011501	0,042782	-3,34475
GOLPH3L	0,596435	6,503197	3,73823	0,01152	0,042839	-3,34653
DPAGT1	-1,08542	5,782042	-3,73722	0,011533	0,042876	-3,34777
CCDC81	3,201071	2,990511	3,730952	0,011612	0,043161	-3,35545
PTPN2	-0,56237	7,974568	-3,73035	0,01162	0,043178	-3,35618
TOLLIP	-0,58535	6,96153	-3,72952	0,011631	0,043206	-3,3572
NUP54	0,736893	7,243982	3,728429	0,011645	0,043247	-3,35854
TXNRD1	-0,6272	8,700213	-3,72721	0,01166	0,043294	-3,36004
RNF144B	-3,87917	4,316011	-3,72538	0,011684	0,043369	-3,36229
ONECUT2	2,583476	3,34838	3,724199	0,011699	0,043414	-3,36373
SMS	-0,73045	7,009711	-3,72314	0,011713	0,043454	-3,36504
RNF4	0,688951	6,505653	3,72262	0,011719	0,043467	-3,36567
CFL1	-0,49359	10,36716	-3,72182	0,01173	0,043494	-3,36666
PEX1	0,613794	6,965159	3,721398	0,011735	0,043503	-3,36717
RAPGEF5	1,194988	3,0616	3,720812	0,011743	0,043509	-3,36789
TMEM203	0,712189	6,045785	3,720801	0,011743	0,043509	-3,3679
JOSD1	0,536538	7,560706	3,720096	0,011752	0,043524	-3,36877
POLE3	0,54225	9,047601	3,720015	0,011753	0,043524	-3,36887
RING1	-0,97362	6,083677	-3,7171	0,011791	0,043647	-3,37245
NAT10	0,624298	7,663276	3,716978	0,011793	0,043647	-3,3726
R3HDM4	0,615671	7,822337	3,716469	0,011799	0,04365	-3,37322
CCT6A	0,489995	9,141857	3,71643	0,0118	0,04365	-3,37327
FAM129B	-4,19365	4,519086	-3,71614	0,011803	0,043653	-3,37362
CREBZF	0,573392	8,810461	3,712536	0,01185	0,043814	-3,37805
ACP2	-5,13306	4,168984	-3,71234	0,011853	0,043814	-3,3783
GTF2A1	0,577295	8,884048	3,710707	0,011874	0,043881	-3,3803
APOE	-2,52832	1,26416	-3,71037	0,011879	0,043886	-3,38072
DCXR	-3,32967	3,707929	-3,70958	0,011889	0,043912	-3,38169
FNBP1L	1,996085	4,296315	3,707959	0,01191	0,043976	-3,38368
GCLM	0,481763	7,406411	3,707618	0,011915	0,043976	-3,3841
BTF3L4	-1,18896	7,001474	-3,70752	0,011916	0,043976	-3,38422
ILF3	0,58126	8,806698	3,707332	0,011919	0,043976	-3,38445
APEX1	0,57616	8,074729	3,706074	0,011935	0,044025	-3,386
RAD9A	-0,78604	3,826088	-3,70578	0,011939	0,044028	-3,38636
SSR3	-0,62088	8,706104	-3,70543	0,011944	0,044034	-3,38679
MORC2	-0,7324	5,578888	-3,70391	0,011964	0,044096	-3,38865
SCML4	0,707853	7,004855	3,703059	0,011975	0,044109	-3,38971
DOK2	-3,78952	4,163879	-3,70262	0,011981	0,044109	-3,39025
CLPB	-0,59906	5,993523	-3,70236	0,011984	0,044109	-3,39057
SLC26A4	3,676429	2,366535	3,702244	0,011986	0,044109	-3,39071
ARID5A	0,686105	7,672206	3,702078	0,011988	0,044109	-3,39091
SH3BP1	-0,90193	6,583432	-3,70199	0,011989	0,044109	-3,39102
TBCK	1,099056	5,992513	3,701932	0,01199	0,044109	-3,39109
CDK11B	0,72283	6,917106	3,701767	0,011992	0,044109	-3,39129
HMGA2	2,789745	3,192311	3,701063	0,012002	0,044132	-3,39216
SNHG12	0,594107	7,256664	3,700062	0,012015	0,04416	-3,39339
ITM2C	0,665331	6,675797	3,699917	0,012017	0,04416	-3,39357
WDR37	0,691602	7,328016	3,699434	0,012023	0,04416	-3,39417

C14orf132	0,968449	3,912692	3,699257	0,012025	0,04416	-3,39438
POU3F2	2,602452	2,075202	3,699217	0,012026	0,04416	-3,39443
AKAP17A	0,460154	9,295591	3,699077	0,012028	0,04416	-3,39461
SYS1	-0,79258	7,308093	-3,69799	0,012042	0,044191	-3,39594
RBM12	-0,59712	7,874717	-3,69796	0,012043	0,044191	-3,39598
PDE3B	0,513682	9,85267	3,697672	0,012047	0,044194	-3,39633
EREG	0,768125	6,12656	3,697082	0,012054	0,044206	-3,39706
YWHAB	-0,6333	11,18322	-3,69696	0,012056	0,044206	-3,39722
SH2B2	-2,49728	2,022618	-3,69669	0,01206	0,044207	-3,39754
TGFBR1	-0,85745	7,740688	-3,69561	0,012074	0,044249	-3,39887
CPNE8	-1,66027	5,096696	-3,69484	0,012084	0,044275	-3,39983
HLA-DOA	-0,55968	5,960864	-3,69383	0,012098	0,044313	-3,40106
ZNF321P	-2,46411	1,232053	-3,6934	0,012104	0,044323	-3,4016
ZBTB25	0,659375	8,195213	3,691597	0,012128	0,0444	-3,40381
ZNF493	0,790548	7,337502	3,691079	0,012135	0,044414	-3,40445
GOPC	0,579127	8,148607	3,690319	0,012145	0,044439	-3,40539
NQO2	-1,34539	4,105766	-3,68989	0,012151	0,044449	-3,40592
DRAP1	-0,6557	7,575383	-3,6883	0,012172	0,044516	-3,40788
HS3ST3B1	0,802423	6,359251	3,68795	0,012177	0,04452	-3,40831
ZFY	0,703249	7,163975	3,687752	0,01218	0,04452	-3,40855
CAP1	-0,5125	9,546301	-3,68728	0,012186	0,044532	-3,40914
MGAT3	2,878131	4,005879	3,683891	0,012232	0,044687	-3,41331
CTSO	-0,61572	7,381158	-3,68283	0,012246	0,044729	-3,41463
C5orf30	-1,61748	3,167679	-3,68246	0,012251	0,044735	-3,41508
STK25	-0,56971	7,254402	-3,68211	0,012256	0,044741	-3,41551
CLCF1	-2,48648	2,350548	-3,67865	0,012303	0,044901	-3,41977
DDX5	-0,48385	10,86133	-3,67817	0,01231	0,044914	-3,42037
ZNF791	0,75763	7,205516	3,677503	0,012319	0,044935	-3,42119
OAZ1	-0,46422	11,06789	-3,67656	0,012332	0,044953	-3,42235
FAM118B	-2,17661	3,86228	-3,67642	0,012333	0,044953	-3,42253
SRP72	-0,64257	8,845216	-3,67639	0,012334	0,044953	-3,42257
TBC1D24	-1,3013	5,730915	-3,67622	0,012336	0,044953	-3,42277
MTHFSD	0,717827	5,031531	3,675397	0,012347	0,044982	-3,42379
ZNF181	1,050943	6,212708	3,674906	0,012354	0,044995	-3,4244
PLEKHA1	0,518414	9,181576	3,674659	0,012358	0,044996	-3,4247
FN1	1,409606	2,233124	3,673278	0,012377	0,045053	-3,42641
IPO11	0,938522	5,581058	3,67236	0,012389	0,045078	-3,42754
SLC30A1	-1,06902	7,442488	-3,67233	0,01239	0,045078	-3,42758
HEBP2	-0,82864	7,04807	-3,67195	0,012395	0,045085	-3,42804
CHM	0,562029	7,156481	3,671656	0,012399	0,045088	-3,42841
ABCB11	2,602452	2,408535	3,671311	0,012404	0,045094	-3,42884
NR4A2	0,72835	7,102855	3,66838	0,012444	0,045205	-3,43246
YARS	0,577165	7,677394	3,668258	0,012446	0,045205	-3,43261
IPCEF1	0,532613	8,484097	3,668219	0,012446	0,045205	-3,43266
FOXP1	0,492144	10,72955	3,668173	0,012447	0,045205	-3,43271
ABHD14A	-2,3778	2,491197	-3,66719	0,01246	0,04524	-3,43393
ZCCHC14	0,739871	6,474372	3,667005	0,012463	0,04524	-3,43416
ATAD3A	-2,52832	2,038136	-3,66655	0,012469	0,045251	-3,43472
GALR1	3,699636	2,711472	3,665537	0,012483	0,045273	-3,43597
UNC93B1	-3,17132	3,466946	-3,66547	0,012484	0,045273	-3,43605
PHF7	1,300786	4,628044	3,665268	0,012487	0,045273	-3,4363
KANSL1-AS	1,06465	5,764738	3,665194	0,012488	0,045273	-3,43639

LSP1	-0,8489	7,882232	-3,66435	0,0125	0,045304	-3,43744
NRXN2	3,292172	1,979419	3,663183	0,012516	0,045342	-3,43888
TREML4	3,146541	2,347247	3,663126	0,012517	0,045342	-3,43895
TAPT1	0,529913	7,097075	3,658541	0,012581	0,045562	-3,44462
SIPA1	-0,64431	5,480754	-3,65772	0,012592	0,045592	-3,44563
NR2C1	0,573501	6,687545	3,656838	0,012605	0,045618	-3,44673
MAP3K12	0,768757	5,227054	3,656755	0,012606	0,045618	-3,44683
ANKRD26P	3,115505	1,557752	3,654351	0,01264	0,045705	-3,4498
KERA	3,115505	1,557752	3,654351	0,01264	0,045705	-3,4498
TMED11P	3,115505	1,557752	3,654351	0,01264	0,045705	-3,4498
LAMB4	2,623455	1,311727	3,653237	0,012655	0,04575	-3,45118
KCTD9	0,503963	6,533372	3,651819	0,012675	0,04581	-3,45294
AGGF1	0,668791	7,320417	3,651306	0,012682	0,045825	-3,45357
WEE1	0,754978	5,226896	3,650695	0,012691	0,045844	-3,45433
DIRC3	2,523285	2,702285	3,649825	0,012703	0,045866	-3,45541
SLC3A2	0,568714	7,533006	3,649816	0,012703	0,045866	-3,45542
EFNB1	-2,26912	2,241869	-3,64751	0,012736	0,045972	-3,45827
BLCAP	0,616007	7,473319	3,646954	0,012744	0,045989	-3,45896
ALDH1A1	-5,0155	5,562721	-3,64594	0,012758	0,046023	-3,46021
L2HGDH	0,825699	4,602802	3,645832	0,01276	0,046023	-3,46035
RANBP9	0,510702	7,352674	3,644451	0,01278	0,046082	-3,46206
CNOT4	0,548553	7,097973	3,643581	0,012792	0,046114	-3,46314
ARHGAP35	0,51271	7,347084	3,643363	0,012795	0,046114	-3,46341
MYO1E	-4,10736	4,60163	-3,64307	0,012799	0,046117	-3,46377
C11orf24	-2,17868	3,253293	-3,64245	0,012808	0,046138	-3,46454
OR7C1	3,135677	2,957814	3,642	0,012815	0,046149	-3,4651
ZBTB37	-0,48042	6,66993	-3,6417	0,012819	0,046152	-3,46547
ISCU	0,448273	9,563113	3,640623	0,012834	0,046196	-3,4668
SF1	0,456369	9,662039	3,639612	0,012849	0,046236	-3,46806
HIST1H2AC	0,707995	6,174991	3,638107	0,01287	0,046302	-3,46992
ANXA1	-0,46388	8,681455	-3,63788	0,012874	0,046302	-3,4702
DDIT3	0,521058	6,783617	3,637529	0,012879	0,046309	-3,47064
ALOX15B	-1,44064	0,720321	-3,63597	0,012901	0,046342	-3,47258
BMP1	-1,44064	0,720321	-3,63597	0,012901	0,046342	-3,47258
CNRIP1	-1,44064	0,720321	-3,63597	0,012901	0,046342	-3,47258
WFS1	-1,44064	0,720321	-3,63597	0,012901	0,046342	-3,47258
AKT3	0,515354	7,968491	3,634417	0,012923	0,046411	-3,4745
NIPAL3	0,562205	7,138826	3,633991	0,01293	0,046421	-3,47503
HMGN2	-0,66692	4,287675	-3,6336	0,012935	0,046425	-3,47551
DNTTIP2	0,51888	8,974966	3,633446	0,012937	0,046425	-3,4757
OSM	-1,44249	5,300115	-3,63309	0,012943	0,046432	-3,47615
ANKRD34B	2,609202	3,889564	3,631809	0,012961	0,046472	-3,47773
KNTC1	1,067949	5,430931	3,631759	0,012962	0,046472	-3,4778
TEAD3	1,74294	1,733124	3,631404	0,012967	0,046472	-3,47824
TMPRSS13	1,74294	1,733124	3,631404	0,012967	0,046472	-3,47824
CD79A	0,864286	6,069024	3,628652	0,013007	0,046604	-3,48165
TRPM7	0,462378	9,513717	3,628287	0,013012	0,046611	-3,48211
OTUD5	0,505894	7,007472	3,627507	0,013023	0,04664	-3,48307
MMD	0,879109	6,001703	3,627104	0,013029	0,046649	-3,48357
ZNF407	1,007221	6,661899	3,626164	0,013043	0,046686	-3,48474
EEA1	-0,53111	8,567333	-3,6254	0,013054	0,046714	-3,48569
RFC1	0,578682	8,775547	3,624687	0,013065	0,046739	-3,48658

ATP6V0E1	-0,63943	8,398897	-3,62227	0,0131	0,046854	-3,48957
SDC4	-3,57076	4,387829	-3,62146	0,013112	0,046884	-3,49058
RXFP1	1,302297	1,317815	3,620328	0,013128	0,046922	-3,49199
CCDC125	0,949042	5,083106	3,620147	0,013131	0,046922	-3,49221
OAS3	-2,03048	5,344212	-3,62006	0,013132	0,046922	-3,49232
POM121C	0,692869	6,274493	3,619105	0,013146	0,046948	-3,49351
COX18	0,6373	7,165758	3,618982	0,013148	0,046948	-3,49366
UBB	-0,52328	9,046167	-3,6189	0,013149	0,046948	-3,49376
PARP14	-0,52051	9,722226	-3,61857	0,013154	0,046953	-3,49417
SV2B	2,464106	2,42704	3,618107	0,013161	0,046965	-3,49475
CXCL5	3,062478	5,940845	3,617763	0,013166	0,046971	-3,49518
OR10A6	2,968964	2,346136	3,617541	0,013169	0,046971	-3,49545
PARP3	1,093	5,780449	3,615886	0,013194	0,047044	-3,49751
GNA15	-2,48939	4,171813	-3,61571	0,013196	0,047044	-3,49773
SPON2	-0,98394	5,890299	-3,61515	0,013205	0,047062	-3,49842
TMEM167A	-0,47124	8,281248	-3,61389	0,013223	0,047109	-3,49999
BACE1	-2,39989	2,394933	-3,6138	0,013224	0,047109	-3,5001
SEMA3E	2,551784	2,049868	3,612933	0,013237	0,047139	-3,50118
CNNM4	-1,24527	5,162478	-3,61259	0,013242	0,047139	-3,50161
FBXL3	-0,47383	7,814463	-3,61255	0,013243	0,047139	-3,50166
TRIM4	0,466408	8,266433	3,612197	0,013248	0,047146	-3,5021
NAGLU	-3,24554	2,622769	-3,61164	0,013257	0,047164	-3,50279
DLX4	1,968964	1,317815	3,60998	0,013281	0,047198	-3,50485
LRTM1	1,968964	1,317815	3,60998	0,013281	0,047198	-3,50485
PPP1R32	1,968964	1,317815	3,60998	0,013281	0,047198	-3,50485
XKR4	2,932708	3,176115	3,609925	0,013282	0,047198	-3,50492
PIM3	-0,60224	9,57488	-3,60987	0,013283	0,047198	-3,505
CTDSPL2	0,512351	8,015334	3,609022	0,013295	0,047231	-3,50605
GPR18	0,734937	5,662017	3,607739	0,013315	0,047284	-3,50764
RILP	-3,04034	3,294145	-3,60747	0,013319	0,047284	-3,50798
UBE2E1	-0,50709	8,714665	-3,60735	0,01332	0,047284	-3,50813
OMA1	0,723631	7,146635	3,607012	0,013325	0,047289	-3,50855
CD164	-0,58869	8,507458	-3,6052	0,013352	0,047374	-3,5108
LINC00526	0,809376	4,235306	3,604501	0,013363	0,047399	-3,51167
APTX	0,772031	6,25682	3,603486	0,013378	0,047441	-3,51294
UBE2Q2P2	0,930713	4,239333	3,599602	0,013436	0,047636	-3,51777
RPS6KA1	-0,67315	6,557024	-3,59893	0,013447	0,047647	-3,51862
CHST12	0,641243	6,968874	3,598859	0,013448	0,047647	-3,5187
LEMD3	0,52214	8,48318	3,598717	0,01345	0,047647	-3,51888
RCC2	-0,51649	8,9436	-3,5972	0,013473	0,047717	-3,52077
ERAP1	-0,62372	8,016484	-3,59648	0,013484	0,047743	-3,52166
POLR2E	-1,0704	8,695045	-3,59549	0,013499	0,047784	-3,5229
STK31	1,265286	3,022618	3,594613	0,013512	0,047804	-3,52399
PIAS3	-3,13283	3,4477	-3,59455	0,013513	0,047804	-3,52407
SETBP1	0,940158	5,977279	3,594448	0,013514	0,047804	-3,52419
FGFBP2	-0,99588	7,504566	-3,5928	0,013539	0,04788	-3,52624
DET1	0,905838	4,357667	3,591876	0,013553	0,047911	-3,5274
DNAJC14	-1,37618	4,67185	-3,59179	0,013555	0,047911	-3,52751
PLIN3	-0,79576	6,701506	-3,5913	0,013562	0,047926	-3,52812
TMEM19	-1,37938	6,458527	-3,5909	0,013568	0,047934	-3,52862
TM6SF1	-3,59488	4,066557	-3,59058	0,013573	0,047934	-3,52902
STARD7	-0,602	8,927951	-3,59048	0,013575	0,047934	-3,52914

NME6	0,959983	5,159288	3,589573	0,013588	0,04797	-3,53027
TUBD1	0,82691	5,206649	3,588721	0,013601	0,04797	-3,53133
RNASEL	-0,54881	5,87643	-3,58866	0,013602	0,04797	-3,53142
ECT2L	2,602452	1,301226	3,588563	0,013604	0,04797	-3,53153
SLC22A14	2,602452	1,301226	3,588563	0,013604	0,04797	-3,53153
AMZ2P1	1,041844	5,324494	3,588474	0,013605	0,04797	-3,53164
NRP1	-3,5145	4,166856	-3,58804	0,013612	0,047981	-3,53218
H1FO	-3,31049	4,310505	-3,58693	0,013629	0,048018	-3,53356
HNF1A-AS1	2,302297	2,679469	3,586917	0,013629	0,048018	-3,53358
DACH1	-1,69582	2,376231	-3,58628	0,013639	0,04804	-3,53438
SNAP23	-0,51408	8,09824	-3,58588	0,013645	0,048048	-3,53487
CCDC136	-1,37917	3,46356	-3,5857	0,013648	0,048048	-3,53511
PNPLA8	-0,65323	7,583065	-3,58547	0,013651	0,048048	-3,53538
MME	1,356558	3,475718	3,584686	0,013663	0,048078	-3,53637
SRA1	-0,75284	4,954941	-3,58346	0,013682	0,048133	-3,5379
CARD16	-1,3739	6,44566	-3,58222	0,013701	0,048188	-3,53945
PHF21A	0,627011	8,156432	3,581482	0,013713	0,048206	-3,54037
CREB5	-2,60823	5,626524	-3,58143	0,013713	0,048206	-3,54043
MX2	0,585068	6,594615	3,581066	0,013719	0,048212	-3,54089
MPG	-0,9297	4,722564	-3,58088	0,013722	0,048212	-3,54111
MPDU1	-2,78757	5,23774	-3,58018	0,013733	0,048238	-3,54199
KIAA1024	2,107309	1,053655	3,579673	0,01374	0,048254	-3,54262
FAM168B	0,65286	6,895432	3,57874	0,013755	0,048292	-3,54379
CR2	0,647404	5,065137	3,578404	0,01376	0,048299	-3,54421
NUBPL	0,87996	5,565717	3,576508	0,013789	0,04839	-3,54658
BCR	0,535512	6,310851	3,574157	0,013826	0,048506	-3,54951
ZNF652	0,455526	8,145324	3,573894	0,01383	0,048508	-3,54984
MPO	3,097185	2,74358	3,573108	0,013842	0,048539	-3,55082
FAM24B	0,846855	5,311188	3,572696	0,013849	0,048544	-3,55134
RAD51AP1	-3,35894	2,736111	-3,57257	0,013851	0,048544	-3,5515
TRUB2	0,730324	5,715636	3,572178	0,013857	0,048552	-3,55199
HMGCL	0,860377	5,297793	3,571991	0,01386	0,048552	-3,55222
PLEKHG4	1,162761	5,065975	3,569646	0,013896	0,04864	-3,55515
ARHGAP24	1,309866	6,072488	3,569527	0,013898	0,04864	-3,5553
RPL30	0,439789	12,15732	3,56919	0,013903	0,04864	-3,55572
MACF1	-0,45635	9,421658	-3,56899	0,013907	0,04864	-3,55597
MTG1	-1,55178	2,744856	-3,56885	0,013909	0,04864	-3,55614
MBD6	-0,9845	5,969229	-3,56884	0,013909	0,04864	-3,55616
RPL41	0,940678	8,438958	3,568834	0,013909	0,04864	-3,55617
IL1R1	-1,82745	5,36367	-3,56729	0,013933	0,048713	-3,55809
AP4E1	-0,59847	6,54849	-3,56663	0,013944	0,048737	-3,55893
SCHIP1	2,025605	1,679469	3,566291	0,013949	0,048744	-3,55934
BRAP	0,555555	6,692292	3,564412	0,013978	0,048835	-3,56169
TRAPPC5	1,793607	2,758458	3,56379	0,013988	0,048857	-3,56247
TMOD3	-0,75742	8,274273	-3,56335	0,013995	0,048869	-3,56302
EIF4E	0,513638	7,730495	3,56279	0,014004	0,048888	-3,56372
COBL	3,30589	3,362706	3,562134	0,014014	0,048912	-3,56454
PIK3R5	-0,62589	7,847035	-3,56176	0,01402	0,04892	-3,56501
FER	-1,3221	5,630324	-3,56111	0,014031	0,048926	-3,56582
HRASLS5	-1,86165	0,930827	-3,56101	0,014032	0,048926	-3,56596
DEPDC1B	-1,86165	0,930827	-3,56101	0,014032	0,048926	-3,56596
NOS1	3,40098	2,228811	3,560664	0,014038	0,048933	-3,56638

ZFP36L2	-0,64499	10,65374	-3,56044	0,014041	0,048933	-3,56666
CSMD3	1,764338	3,874596	3,558971	0,014064	0,048996	-3,5685
ZNF568	0,89495	4,827379	3,558716	0,014069	0,048996	-3,56882
SULT1B1	1,136625	4,603834	3,55865	0,01407	0,048996	-3,5689
MGST2	-3,8994	4,30146	-3,55525	0,014124	0,049154	-3,57316
SLC36A4	-1,49452	6,068248	-3,55524	0,014124	0,049154	-3,57317
MAGOH	0,639295	8,676657	3,555135	0,014125	0,049154	-3,5733
TMEM9B	-0,77276	7,74871	-3,55476	0,014131	0,049163	-3,57378
SAPCD2	-1,65909	1,16288	-3,55375	0,014147	0,049206	-3,57503
EMP2	2,964153	2,872051	3,553344	0,014154	0,049211	-3,57555
ZC3H8	0,564479	7,190724	3,553232	0,014156	0,049211	-3,57569
ABCC10	-3,0903	3,426436	-3,55256	0,014167	0,049233	-3,57653
PTPRD	2,904749	2,314028	3,552407	0,014169	0,049233	-3,57672
TTLL3	1,836097	5,1933	3,551673	0,014181	0,049261	-3,57764
MLYCD	0,654937	6,54141	3,550849	0,014194	0,049295	-3,57867
RPS29	0,666181	13,1212	3,550632	0,014197	0,049295	-3,57894
ENO3	2,100769	4,245372	3,550052	0,014207	0,049315	-3,57967
FABP5P3	2,218451	2,216535	3,548158	0,014237	0,049409	-3,58204
NME7	0,907678	5,198029	3,547765	0,014243	0,049418	-3,58253
TGIF1	0,50408	6,894051	3,545975	0,014272	0,049492	-3,58478
CHD1	0,48024	9,513995	3,545955	0,014273	0,049492	-3,5848
ACAD9	-3,02862	3,149942	-3,54579	0,014275	0,049492	-3,58501
EIF2B5	0,521872	6,839085	3,545485	0,01428	0,049497	-3,58539
TMEM109	-0,70574	8,215002	-3,54416	0,014301	0,049559	-3,58705
SZT2	0,823364	5,590836	3,543704	0,014309	0,049573	-3,58762
THAP2	1,384066	5,714511	3,542378	0,01433	0,049618	-3,58929
IRF1	-0,50129	9,912216	-3,54237	0,014331	0,049618	-3,5893
IFIH1	-0,5982	7,340959	-3,54225	0,014332	0,049618	-3,58945
BCL6	0,551109	8,048441	3,541707	0,014341	0,049636	-3,59013
RNF14	-1,2049	6,420894	-3,54115	0,01435	0,049655	-3,59082
SNRPF	0,448898	8,876063	3,540075	0,014368	0,049703	-3,59217
RBBP9	-0,51847	5,38325	-3,53907	0,014384	0,049745	-3,59344
PAK3	2,433465	3,135028	3,538904	0,014387	0,049745	-3,59364
DCLRE1B	-2,64071	3,955987	-3,53798	0,014402	0,049784	-3,5948
KPTN	-2,3023	1,151148	-3,53766	0,014407	0,049791	-3,59521
IL15RA	-1,97026	5,393534	-3,53713	0,014416	0,049796	-3,59587
MRPS23	0,6478	6,761953	3,537067	0,014417	0,049796	-3,59595
MEG3	2,35965	3,343776	3,536552	0,014425	0,049796	-3,5966
ZNF43	0,776475	5,879388	3,536283	0,014429	0,049796	-3,59693
RPS10P7	1,341998	4,321427	3,536207	0,014431	0,049796	-3,59703
TPD52L2	-0,67267	7,758181	-3,53588	0,014436	0,049796	-3,59744
DAG1	-2,57634	2,83612	-3,53583	0,014437	0,049796	-3,5975
ADA	-3,62049	4,079364	-3,53582	0,014437	0,049796	-3,59751
TRAPPC10	0,595415	6,988575	3,534853	0,014453	0,049839	-3,59873
TMEM99	0,82344	3,714017	3,533631	0,014473	0,049896	-3,60026
ZNF432	0,786295	5,980867	3,532899	0,014485	0,049897	-3,60118
DAPK2	1,670177	4,30665	3,532741	0,014487	0,049897	-3,60138
CEP55	-1,6863	1,37147	-3,53253	0,014491	0,049897	-3,60164
NLRX1	-1,6863	1,37147	-3,53253	0,014491	0,049897	-3,60164
SGPP2	-1,6863	1,37147	-3,53253	0,014491	0,049897	-3,60164
PHF20L1	-0,51571	8,731993	-3,53197	0,0145	0,049916	-3,60234
LPAR6	-0,55981	8,273752	-3,53177	0,014503	0,049916	-3,60259

FBXO4	0,60136	6,128212	3,531396	0,014509	0,049918	-3,60307
DHCR7	-2,14432	2,179469	-3,5313	0,014511	0,049918	-3,60319
GRIA2	2,425375	2,212687	3,530958	0,014517	0,049925	-3,60362
ELF2	0,616041	7,841844	3,530366	0,014526	0,049937	-3,60436
ANKRD28	0,564495	7,59805	3,530315	0,014527	0,049937	-3,60442
PCTP	-3,64515	4,199004	-3,52892	0,01455	0,050004	-3,60617
IL10	2,717851	3,358925	3,527545	0,014573	0,05007	-3,6079
BNIP3L	-0,84426	9,323219	-3,52543	0,014608	0,050177	-3,61056
UVRAG	-0,44607	7,704141	-3,52509	0,014613	0,050177	-3,61098
SMARCA5	0,445208	9,947516	3,525004	0,014615	0,050177	-3,61109
RABEP2	-1,1674	3,809605	-3,52389	0,014633	0,050228	-3,61249
PHLPP1	-0,83703	4,708124	-3,52352	0,014639	0,050238	-3,61296
DCLRE1C	0,595066	6,44118	3,523026	0,014648	0,050253	-3,61358
CD27	0,879764	7,36995	3,52113	0,014679	0,050349	-3,61596
MVK	-1,5405	3,834346	-3,52078	0,014685	0,050357	-3,6164
CHD8	0,530229	8,248269	3,519349	0,014709	0,05042	-3,6182
PLS1	2,093915	4,883549	3,51924	0,014711	0,05042	-3,61834
CRABP2	1,955416	2,172696	3,518859	0,014717	0,05043	-3,61882
FXR1	0,484201	9,156571	3,517803	0,014735	0,050476	-3,62015
TSPAN17	-1,21462	4,419547	-3,51762	0,014738	0,050476	-3,62038
TTC9C	0,648205	6,201805	3,516743	0,014752	0,050514	-3,62148
MYO1B	1,393917	2,615254	3,515552	0,014772	0,05057	-3,62298
FGD4	-1,04383	6,914695	-3,51494	0,014782	0,050571	-3,62374
ZBTB3	-1,54795	3,937927	-3,51492	0,014783	0,050571	-3,62377
KLHL34	1,700699	3,259956	3,514905	0,014783	0,050571	-3,62379
GON4L	0,648234	7,607178	3,513069	0,014814	0,050664	-3,6261
CLIP4	0,478674	7,703074	3,511967	0,014832	0,050715	-3,62749
ARL8B	-0,44519	8,181043	-3,51094	0,01485	0,050762	-3,62877
FPGT	-1,80801	4,067955	-3,51052	0,014857	0,050774	-3,62931
BZW2	0,633467	7,1368	3,507991	0,0149	0,050907	-3,63249
AASDHPPT	0,6156	8,041935	3,50779	0,014903	0,050907	-3,63274
CAND1	0,451005	8,534863	3,50678	0,01492	0,050933	-3,63402
ACP1	0,461872	8,409045	3,506768	0,01492	0,050933	-3,63403
PCNP	0,525435	8,869342	3,506705	0,014921	0,050933	-3,63411
GTF2H1	0,918782	7,244092	3,506352	0,014927	0,050941	-3,63455
ATP2C1	-0,70342	6,95147	-3,50561	0,01494	0,050972	-3,63549
SLC25A22	-1,53086	3,286177	-3,50428	0,014962	0,051036	-3,63716
PAN3	0,527374	7,81536	3,503709	0,014972	0,051049	-3,63788
FAF2	0,483263	7,335544	3,503629	0,014974	0,051049	-3,63798
FUT3	3,187414	1,593707	3,503319	0,014979	0,051051	-3,63837
LRP5L	-2,49728	2,712748	-3,50318	0,014981	0,051051	-3,63855
RMI1	-0,5257	6,254217	-3,50226	0,014997	0,051091	-3,6397
PGRMC1	-0,75027	6,574875	-3,50206	0,015	0,051091	-3,63996
TLN2	-2,64918	2,92704	-3,50141	0,015011	0,051117	-3,64078
PRDM8	0,765464	6,065135	3,500476	0,015027	0,051159	-3,64196
BET1	0,844985	6,976418	3,499882	0,015037	0,051181	-3,6427
MRPS18B	0,564801	8,255181	3,498865	0,015055	0,051228	-3,64399
ODC1	0,563734	7,705759	3,497596	0,015077	0,051289	-3,64559
PTPN9	-0,63172	5,260946	-3,4963	0,015099	0,051316	-3,64722
DCHS2	2,238082	1,452374	3,496082	0,015103	0,051316	-3,64749
LAMA3	2,238082	1,452374	3,496082	0,015103	0,051316	-3,64749
GFI1B	2,238082	1,452374	3,496082	0,015103	0,051316	-3,64749

ILDR2	2,238082	1,452374	3,496082	0,015103	0,051316	-3,64749
LMO4	-0,70689	7,665831	-3,49551	0,015112	0,051325	-3,64821
DCP1B	0,58008	5,9601	3,495175	0,015118	0,051325	-3,64864
RPL7	1,342856	4,790795	3,495135	0,015119	0,051325	-3,64869
FAM149B1	-1,12157	4,391404	-3,49499	0,015121	0,051325	-3,64887
PPM1M	-2,1228	4,413159	-3,49486	0,015123	0,051325	-3,64903
MLKL	-2,13537	4,408476	-3,49408	0,015137	0,051359	-3,65001
ZNF577	0,973919	4,530054	3,492527	0,015164	0,051437	-3,65198
CYSTM1	-1,07332	5,950821	-3,49175	0,015177	0,05147	-3,65296
DHX34	-1,63349	3,119041	-3,49155	0,015181	0,05147	-3,65321
EHBP1L1	-3,57061	3,921767	-3,49051	0,015199	0,051508	-3,65452
MYO16	1,881285	1,997284	3,490269	0,015203	0,051508	-3,65482
TMEFF2	1,881285	1,997284	3,490269	0,015203	0,051508	-3,65482
LCOR	-0,55219	8,301801	-3,4894	0,015218	0,051546	-3,65592
CCT5	-0,51084	8,402676	-3,48721	0,015256	0,051663	-3,65868
GTF2B	0,515913	6,938775	3,486738	0,015264	0,051678	-3,65928
WFDC1	2,019631	1,538136	3,485248	0,01529	0,051754	-3,66116
ZBED1	-0,53725	7,039727	-3,48381	0,015315	0,051814	-3,66298
LIAS	0,819267	5,68389	3,48349	0,015321	0,051814	-3,66338
IGFBP5	2,362488	2,904552	3,483433	0,015322	0,051814	-3,66345
METTL7A	-1,08993	7,12502	-3,48316	0,015326	0,051814	-3,6638
HSD17B11	-0,42731	7,967885	-3,4831	0,015327	0,051814	-3,66387
CLEC2D	0,485752	10,28257	3,482957	0,01533	0,051814	-3,66405
IFFO1	-1,11635	6,859843	-3,48268	0,015335	0,051818	-3,6644
ENPEP	2,28875	2,672696	3,481925	0,015348	0,05185	-3,66535
SLIT2	2,074989	3,252113	3,481521	0,015355	0,051861	-3,66586
ADAT1	1,462532	6,012049	3,481323	0,015358	0,051861	-3,66611
ANKLE2	0,505217	7,417469	3,480623	0,015371	0,05189	-3,667
HILPDA	-2,6867	3,676684	-3,48039	0,015375	0,051892	-3,66729
ATG14	0,769573	6,939866	3,480126	0,015379	0,051895	-3,66763
RPN1	-0,49097	8,991431	-3,47973	0,015386	0,051906	-3,66812
ZNF830	0,583749	7,942462	3,477479	0,015426	0,052016	-3,67097
DIAPH2	-1,4263	6,175906	-3,47745	0,015426	0,052016	-3,67101
DDX60	-0,55923	7,874019	-3,47657	0,015442	0,052056	-3,67212
PLEKHH3	2,850249	1,758458	3,475911	0,015453	0,052077	-3,67295
LYPLA1	-0,52548	8,04821	-3,47579	0,015456	0,052077	-3,6731
PRKCQ	0,810268	7,106792	3,475352	0,015463	0,052091	-3,67366
DLAT	-0,82196	5,574721	-3,47506	0,015469	0,052096	-3,67403
ADD2	1,384001	2,081976	3,47476	0,015474	0,052101	-3,67441
PUM2	0,428266	9,152041	3,472592	0,015512	0,052218	-3,67715
SUCLA2	-1,17127	4,807411	-3,47176	0,015527	0,052255	-3,6782
KLHDC1	1,106651	5,96265	3,471394	0,015533	0,052265	-3,67866
PYCR2	0,536023	8,750445	3,470072	0,015557	0,052323	-3,68033
TPP1	-0,43958	8,972638	-3,46998	0,015558	0,052323	-3,68044
LIN54	0,694271	6,309776	3,469784	0,015562	0,052323	-3,6807
APOL3	-0,49686	7,939518	-3,46816	0,015591	0,052389	-3,68275
SLC20A2	1,08165	6,21263	3,468148	0,015591	0,052389	-3,68276
RRP36	0,482967	6,415028	3,468067	0,015592	0,052389	-3,68287
NDUFA4	-0,46053	8,437027	-3,46716	0,015608	0,05243	-3,68401
MCTP2	0,859654	7,323887	3,466105	0,015627	0,052469	-3,68535
LEO1	-0,77812	6,823082	-3,4661	0,015627	0,052469	-3,68536
COPB1	-0,49508	8,763506	-3,46441	0,015658	0,052558	-3,6875

USO1	-0,43452	8,068683	-3,46391	0,015667	0,052576	-3,68813
HERC2P3	2,081587	2,569114	3,462696	0,015688	0,052636	-3,68966
TIRAP	-2,33931	1,94363	-3,46106	0,015718	0,052722	-3,69174
AKT2	0,578323	8,689402	3,460736	0,015724	0,052729	-3,69214
FAM173A	-2,98967	3,376121	-3,45988	0,015739	0,052768	-3,69322
CDH7	3,084407	4,433012	3,459289	0,01575	0,052791	-3,69397
CREG1	-5,10341	5,968473	-3,45879	0,015758	0,052807	-3,6946
CD160	0,632016	4,629079	3,458604	0,015762	0,052807	-3,69484
TNFRSF9	0,568468	5,999273	3,457203	0,015787	0,052879	-3,69661
LEP	3,398457	2,365895	3,456782	0,015795	0,052892	-3,69715
GMPPA	-3,30738	2,760999	-3,45644	0,015801	0,052893	-3,69758
PPP1R3E	1,02205	6,25524	3,456356	0,015802	0,052893	-3,69769
EIF4A1	1,070693	4,656086	3,455998	0,015809	0,052899	-3,69814
PDE11A	2,490107	2,106707	3,455843	0,015812	0,052899	-3,69834
GDE1	-0,45016	7,324244	-3,45548	0,015818	0,052908	-3,69879
CBR4	0,519864	7,245582	3,45479	0,015831	0,052938	-3,69967
LINC00520	2,007456	2,06037	3,453818	0,015848	0,052984	-3,7009
TBCEL	0,865814	5,628462	3,452789	0,015867	0,053034	-3,7022
TBP	0,535393	6,760736	3,451891	0,015883	0,05306	-3,70334
PPWD1	0,653649	7,539207	3,451799	0,015885	0,05306	-3,70346
PAOX	-2,72664	2,91127	-3,45173	0,015886	0,05306	-3,70354
ANO8	-2,3669	3,740927	-3,45122	0,015896	0,053079	-3,70419
RAB7A	-0,43509	9,189481	-3,44796	0,015955	0,053262	-3,70832
SLC13A1	1,626502	4,015694	3,4478	0,015958	0,053262	-3,70853
ENO1-AS1	2,571415	1,619041	3,447355	0,015966	0,053264	-3,70909
VSX1	2,571415	1,619041	3,447355	0,015966	0,053264	-3,70909
TMCO6	-2,37643	1,96219	-3,44412	0,016025	0,053449	-3,71319
UTP15	0,535894	5,984933	3,442934	0,016047	0,053509	-3,7147
DEF8	-1,76269	4,203272	-3,44219	0,016061	0,053537	-3,71563
UPB1	2,404827	3,50471	3,442074	0,016063	0,053537	-3,71579
PSMD12	0,511055	7,917815	3,440771	0,016087	0,053604	-3,71744
ANAPC11	-1,89434	5,94251	-3,4399	0,016103	0,053633	-3,71854
CDYL	0,620465	7,078139	3,439875	0,016103	0,053633	-3,71858
ZNF717	1,512829	4,583681	3,439566	0,016109	0,053633	-3,71897
OTUD4	0,472637	7,672373	3,43947	0,016111	0,053633	-3,71909
RND1	2,642	3,661789	3,439181	0,016116	0,053639	-3,71946
TM7SF3	-0,95922	7,217213	-3,43851	0,016129	0,053667	-3,7203
ENO1	-0,92737	9,820612	-3,43752	0,016147	0,053695	-3,72156
IMMP1L	0,615572	5,440701	3,437493	0,016147	0,053695	-3,7216
ZEB1-AS1	2,279687	3,626321	3,437442	0,016148	0,053695	-3,72166
CDO1	2,67103	2,197169	3,436649	0,016163	0,053731	-3,72267
KCNAB3	1,700341	4,407646	3,435579	0,016183	0,053785	-3,72403
CYB5B	0,463943	7,243519	3,434207	0,016208	0,053857	-3,72577
DCAF17	0,69321	6,176596	3,43218	0,016246	0,053969	-3,72834
CORO1B	-1,72512	5,654649	-3,43164	0,016256	0,05399	-3,72903
DKK3	1,776197	3,139728	3,430838	0,016271	0,054027	-3,73005
FBXO15	0,986453	2,883201	3,429877	0,016289	0,054074	-3,73127
MPST	-2,96896	2,484482	-3,42873	0,016311	0,054132	-3,73272
CEP120	0,460081	7,680676	3,427955	0,016325	0,054168	-3,73371
EIF2S1	0,543191	7,524632	3,425786	0,016366	0,054285	-3,73646
CMTM7	-0,66443	7,052831	-3,42566	0,016368	0,054285	-3,73662
TNFRSF11A	-2,19499	2,399791	-3,4243	0,016394	0,054358	-3,73835

CAMK4	0,5284	8,894886	3,42302	0,016418	0,054425	-3,73998
SOX9	2,274001	3,180095	3,422571	0,016426	0,054444	-3,74055
RAB3IP	0,66094	6,902378	3,422299	0,016431	0,054444	-3,74089
RAB9A	-0,66318	6,359846	-3,42196	0,016438	0,054452	-3,74132
CDK9	-0,69645	5,11439	-3,41968	0,016481	0,054583	-3,74422
VPS45	-1,87916	4,387677	-3,41892	0,016495	0,054618	-3,74519
SPTY2D1	0,506346	8,04989	3,418243	0,016508	0,054647	-3,74605
ZSCAN16	1,111294	4,35594	3,417399	0,016524	0,054688	-3,74713
SUPT16H	0,428162	9,302913	3,416493	0,016541	0,054732	-3,74828
SLC25A5	-0,57085	8,541438	-3,41527	0,016565	0,054796	-3,74983
ASXL3	2,007456	2,727036	3,413811	0,016593	0,054875	-3,75169
ZNF227	0,550597	6,707508	3,41293	0,016609	0,054918	-3,75281
MS4A2	-2,7103	2,688482	-3,41269	0,016614	0,05492	-3,75312
CCL4L2	0,834359	6,968911	3,411546	0,016636	0,05498	-3,75457
REV3L	0,620082	8,22024	3,410972	0,016647	0,055003	-3,7553
NDUFA10	0,568023	7,656816	3,410637	0,016653	0,055012	-3,75573
PNPLA7	-1,72331	1,723308	-3,40956	0,016674	0,055067	-3,7571
TIGIT	0,537803	8,991786	3,408663	0,016691	0,055111	-3,75824
ZNF641	-1,50585	4,865375	-3,40767	0,01671	0,055161	-3,75951
ZNF682	0,72999	4,887885	3,407213	0,016719	0,055177	-3,76009
CLEC19A	1,919778	3,090661	3,406576	0,016731	0,0552	-3,7609
IFI30	-2,95332	3,357947	-3,40645	0,016734	0,0552	-3,76106
CACNG8	1,974655	3,030422	3,404028	0,01678	0,055332	-3,76414
ZNF677	1,604502	4,973658	3,403972	0,016782	0,055332	-3,76421
SERPINB13	3,353465	3,400041	3,403765	0,016786	0,055332	-3,76448
PSMD10	0,607832	6,626985	3,40352	0,01679	0,055335	-3,76479
TLR3	-2,51615	2,032049	-3,40321	0,016796	0,055342	-3,76519
DTX4	-2,96139	2,480695	-3,40214	0,016817	0,055397	-3,76655
PLCG1	0,875994	5,692998	3,401707	0,016825	0,055412	-3,7671
FIG4	-2,2707	4,658634	-3,40023	0,016854	0,055493	-3,76899
CHEK1	1,196238	4,038762	3,399298	0,016872	0,055533	-3,77017
COG3	0,460873	7,303017	3,399198	0,016874	0,055533	-3,7703
KANSL2	0,701676	6,192964	3,398683	0,016884	0,055553	-3,77095
MAPK1	-0,66442	9,278079	-3,39805	0,016896	0,055576	-3,77176
SERPINI1	1,463388	4,819255	3,39793	0,016899	0,055576	-3,77191
APOBR	-2,29941	4,657561	-3,39716	0,016914	0,055612	-3,77289
TNK2	0,572315	6,919158	3,393437	0,016987	0,055838	-3,77764
PURB	0,649524	8,085367	3,393248	0,01699	0,055838	-3,77788
ZSCAN21	-1,80064	4,069583	-3,39214	0,017012	0,055896	-3,77929
PNPO	-1,5793	4,198055	-3,39063	0,017042	0,05598	-3,78122
ARRDC5	1,492682	3,877114	3,390231	0,01705	0,055993	-3,78173
NRF1	0,835422	5,848898	3,389807	0,017058	0,056008	-3,78227
HSPA6	-2,98922	2,935252	-3,3895	0,017064	0,056013	-3,78266
ABCA9	3,403801	3,142543	3,389329	0,017067	0,056013	-3,78288
ZNF121	0,475798	7,367011	3,388404	0,017085	0,056059	-3,78406
PLXNA1	-2,46282	4,886672	-3,38777	0,017098	0,056087	-3,78487
C19orf53	0,609468	6,892951	3,386678	0,01712	0,056136	-3,78626
PURA	0,415356	9,207534	3,386614	0,017121	0,056136	-3,78635
PPARD	0,946889	5,567566	3,38599	0,017133	0,056164	-3,78714
UPF3B	0,647545	8,614444	3,385474	0,017143	0,056177	-3,7878
BCAP31	-0,46455	7,60748	-3,38539	0,017145	0,056177	-3,78791
FHOD1	-1,19843	6,865433	-3,38453	0,017162	0,056219	-3,789

LGALS3BP	-1,47156	3,509757	-3,38346	0,017183	0,056276	-3,79037
PQLC1	-1,392	5,310509	-3,38253	0,017202	0,056319	-3,79156
SLC12A4	-2,14432	2,512803	-3,3824	0,017204	0,056319	-3,79173
TTLL4	-2,50571	5,343927	-3,38192	0,017214	0,056337	-3,79234
DTNB	-2,05664	2,330618	-3,38149	0,017222	0,056351	-3,79288
HSPA8	-0,77454	7,708523	-3,38022	0,017248	0,056421	-3,79451
EBAG9	0,507467	7,943232	3,379671	0,017259	0,056444	-3,79521
MAEA	0,483583	7,966867	3,378964	0,017273	0,056477	-3,79611
CHMP3	-0,50681	8,483946	-3,37859	0,01728	0,056488	-3,79658
CTPS2	-1,73322	1,866612	-3,37787	0,017295	0,056522	-3,79751
SLC16A3	-4,62046	4,904014	-3,37754	0,017301	0,056529	-3,79793
PYGB	-3,58094	3,980421	-3,37729	0,017306	0,056529	-3,79825
TGFA	-0,95054	4,267672	-3,37716	0,017309	0,056529	-3,79841
RNFT1	-1,75305	4,846737	-3,37579	0,017336	0,056553	-3,80016
C2orf16	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
CFHR3	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
ESRRB	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
GJD4	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
HIST1H2BF	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
IGDCC3	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
PRELP	1,918296	0,959148	3,375099	0,01735	0,056553	-3,80105
CAPS2	1,643491	4,567681	3,375004	0,017352	0,056553	-3,80117
CD4	-0,75416	5,521063	-3,37416	0,017369	0,056595	-3,80225
PIP5K1A	0,777607	7,362193	3,373348	0,017385	0,056635	-3,80329
KLHL29	1,937927	1,968964	3,371648	0,01742	0,056734	-3,80546
GADD45B	0,481101	7,990288	3,370123	0,01745	0,056821	-3,80741
PPP6C	0,543751	8,650327	3,369554	0,017462	0,056827	-3,80814
UTP3	-0,42446	8,559934	-3,36948	0,017463	0,056827	-3,80823
SLC9A6	-0,59057	6,719293	-3,36943	0,017464	0,056827	-3,8083
ABCF3	-1,30074	4,271251	-3,36914	0,01747	0,056832	-3,80867
OR52A5	1,92809	2,794663	3,368957	0,017474	0,056832	-3,8089
PABPN1	0,49033	8,24589	3,367236	0,017509	0,056932	-3,8111
TTC9	0,600864	6,378829	3,366798	0,017518	0,05694	-3,81166
ADAMTS18	2,530542	2,321913	3,366724	0,017519	0,05694	-3,81176
UBE2Q2	0,510403	8,155907	3,365328	0,017547	0,057019	-3,81354
PSMD14	-0,71488	6,999247	-3,36506	0,017553	0,057023	-3,81388
FAM206A	-0,84038	4,825771	-3,36251	0,017605	0,057179	-3,81714
MTSS1	0,665235	7,112313	3,361609	0,017623	0,057226	-3,8183
NTAN1	-0,44538	5,418614	-3,36132	0,017629	0,057232	-3,81867
KLHL20	0,46118	7,661582	3,360931	0,017637	0,057244	-3,81917
STAC	-2,52832	1,26416	-3,3607	0,017642	0,057246	-3,81946
BAG2	0,870075	5,318945	3,360463	0,017647	0,057249	-3,81977
PRPF8	0,565996	7,931039	3,359842	0,017659	0,057277	-3,82056
CSE1L	0,673717	6,746389	3,359509	0,017666	0,057286	-3,82099
UBE2L6	-0,44549	8,382277	-3,35896	0,017677	0,057309	-3,82169
GEMIN2	-1,45867	3,893285	-3,35748	0,017708	0,057394	-3,82358
ZNF594	1,85192	3,649268	3,356927	0,017719	0,057408	-3,82429
CERS2	-0,41954	7,71206	-3,35688	0,01772	0,057408	-3,82435
HMGB3	-2,08768	2,346136	-3,35567	0,017745	0,057469	-3,8259
PALLD	-2,0805	4,402736	-3,35558	0,017747	0,057469	-3,82602
KLC4	1,126406	4,255475	3,354215	0,017775	0,057546	-3,82776
CYP4V2	-0,71152	5,64053	-3,3539	0,017781	0,057554	-3,82817

GDF9	1,464106	1,39872	3,353607	0,017787	0,05756	-3,82854
ERI3	-2,16395	1,94363	-3,35333	0,017793	0,057566	-3,8289
BRD7	0,529368	7,323668	3,352729	0,017805	0,057593	-3,82967
CXADR	1,847557	3,861706	3,352302	0,017814	0,057608	-3,83022
FAM120B	0,567097	6,501816	3,351672	0,017827	0,057623	-3,83102
MAP3K3	-0,78542	7,5257	-3,35167	0,017827	0,057623	-3,83103
INPP5A	0,589865	5,699503	3,351486	0,017831	0,057623	-3,83126
TGS1	0,535344	7,650352	3,350944	0,017842	0,057646	-3,83195
PCMT1	-0,64113	8,023388	-3,35067	0,017848	0,057651	-3,8323
COX8A	-0,45457	7,731987	-3,34931	0,017876	0,057729	-3,83405
ARPC3	-0,50538	9,435266	-3,34836	0,017896	0,05778	-3,83527
LYST	0,497011	9,771022	3,347744	0,017909	0,057806	-3,83605
RCOR1	-0,52157	7,730825	-3,3475	0,017914	0,057806	-3,83637
NSMAF	-0,60605	7,657157	-3,34736	0,017917	0,057806	-3,83655
IFIT2	-0,76748	6,290614	-3,34711	0,017922	0,057806	-3,83686
ZNF558	0,507939	6,252463	3,346901	0,017926	0,057806	-3,83714
ARRDC1	-2,8782	3,320384	-3,34678	0,017929	0,057806	-3,83729
ZNF32	0,796317	5,203823	3,346405	0,017937	0,057818	-3,83777
PTGS1	-3,13301	3,730456	-3,34615	0,017942	0,057822	-3,8381
SIGLEC10	-2,87017	2,370868	-3,34596	0,017946	0,057822	-3,83834
MMADHC	0,4886	8,069719	3,344694	0,017972	0,057894	-3,83996
COX5A	-0,67456	7,874222	-3,3441	0,017985	0,057921	-3,84073
FOXO1	0,491203	8,381227	3,343596	0,017995	0,057941	-3,84137
RPL26	0,456244	11,51499	3,343318	0,018001	0,057947	-3,84173
COQ10A	-1,44915	3,327029	-3,34201	0,018028	0,058022	-3,84341
P2RX4	-1,43782	5,112315	-3,3407	0,018056	0,058097	-3,84509
PLAG1	0,937659	5,462507	3,339047	0,01809	0,058195	-3,84721
C12orf29	0,524354	5,773773	3,336691	0,01814	0,058341	-3,85023
TLR6	-0,95625	4,359412	-3,33607	0,018153	0,05837	-3,85103
GJB2	-2,27509	1,911522	-3,33561	0,018163	0,058388	-3,85161
APOBEC3A	-3,68805	4,284665	-3,33417	0,018193	0,058472	-3,85346
SDC2	-2,78666	5,812854	-3,3335	0,018208	0,058505	-3,85433
PIAS1	-0,40215	9,718078	-3,33321	0,018214	0,058512	-3,8547
PRIM2	0,56003	4,213918	3,331744	0,018245	0,058598	-3,85658
ZNF248	0,914824	5,513231	3,331069	0,018259	0,058611	-3,85744
MEX3D	-0,76422	5,75598	-3,33102	0,01826	0,058611	-3,85751
ZSCAN30	1,256402	6,09791	3,33097	0,018261	0,058611	-3,85757
ASB11	2,460274	1,758458	3,329641	0,018289	0,058688	-3,85928
S100A10	-0,9337	8,340401	-3,32893	0,018305	0,05872	-3,86019
SRD5A3	-2,1058	3,442877	-3,32866	0,01831	0,05872	-3,86054
ZNF444	0,772725	4,606064	3,328582	0,018312	0,05872	-3,86064
RSRC2	0,513454	9,375004	3,327996	0,018324	0,058747	-3,86139
PPP6R2	0,564559	6,597406	3,32547	0,018378	0,058907	-3,86464
FOXO4	-3,22305	3,780791	-3,32491	0,01839	0,058932	-3,86535
CITED2	-0,47435	7,402415	-3,32443	0,018401	0,058951	-3,86597
POLR2D	0,59344	6,418884	3,324096	0,018408	0,058961	-3,8664
DALRD3	0,639438	5,105753	3,323075	0,01843	0,059	-3,86771
PHF12	0,910086	6,296113	3,322855	0,018434	0,059	-3,86799
RPAIN	0,527471	7,021078	3,322627	0,018439	0,059	-3,86829
FOXN3	-0,42674	8,779983	-3,32241	0,018444	0,059	-3,86856
RBM7	0,706043	6,897101	3,322369	0,018445	0,059	-3,86862
BLOC1S2	-0,58544	8,228067	-3,32236	0,018445	0,059	-3,86863

DLEU7	-1,82914	4,835086	-3,32131	0,018468	0,059059	-3,86998
PLCL1	0,872921	5,710717	3,320343	0,018488	0,059112	-3,87122
PPOX	-1,36196	3,454954	-3,32002	0,018495	0,059117	-3,87164
NANP	-2,38078	3,566815	-3,31981	0,0185	0,059117	-3,87191
GOLM1	-1,93864	2,887615	-3,31968	0,018503	0,059117	-3,87207
CASD1	0,492809	7,168166	3,31863	0,018525	0,059177	-3,87342
PEX6	1,236018	4,441053	3,316902	0,018563	0,059282	-3,87565
CSNK1A1	0,50633	8,926322	3,31617	0,018579	0,059307	-3,87659
C12orf42	1,281421	4,704294	3,315986	0,018583	0,059307	-3,87682
OR4D1	1,23253	3,647184	3,315972	0,018583	0,059307	-3,87684
PYGO2	0,543386	6,262492	3,315759	0,018587	0,059308	-3,87712
ADPRHL2	0,423627	6,202807	3,314804	0,018608	0,059361	-3,87834
ELF4	-1,1008	5,318709	-3,31436	0,018618	0,059378	-3,87891
SCD	-3,73161	4,01895	-3,31409	0,018624	0,059383	-3,87926
ID2	-0,5496	8,887078	-3,31217	0,018665	0,059503	-3,88173
LMCD1	2,194152	2,625397	3,311774	0,018674	0,059517	-3,88224
RNF34	0,48494	8,170965	3,311086	0,018689	0,059551	-3,88313
WBP2NL	0,904153	3,874339	3,310864	0,018694	0,059553	-3,88341
ZRANB3	0,964362	3,858608	3,309929	0,018714	0,059605	-3,88462
PYCARD	-3,85932	4,614756	-3,30756	0,018766	0,059756	-3,88766
NOL10	0,604723	7,186086	3,306442	0,018791	0,059821	-3,8891
NAV1	1,507854	4,41302	3,305554	0,01881	0,059869	-3,89025
RRAGD	-1,7554	6,369949	-3,30478	0,018827	0,059888	-3,89124
GABRG2	3,46004	3,773114	3,304777	0,018827	0,059888	-3,89125
RNF111	0,61084	6,901625	3,304709	0,018829	0,059888	-3,89133
FOXP2	2,396852	4,350202	3,304164	0,018841	0,059913	-3,89204
AIM2	-0,69204	6,124601	-3,30178	0,018893	0,060066	-3,89511
TUBA1A	-1,47475	6,844303	-3,30027	0,018926	0,060159	-3,89705
LMAN2	-0,53464	8,206959	-3,29931	0,018948	0,060212	-3,89829
WDR81	-1,8095	4,221845	-3,29886	0,018958	0,06023	-3,89886
CEP41	0,863579	6,022162	3,298333	0,018969	0,060254	-3,89955
TSPAN14	0,445846	8,619057	3,29779	0,018981	0,060279	-3,90025
RAPGEF1	-0,45569	9,198028	-3,29734	0,018991	0,060297	-3,90083
TWISTNB	0,663714	7,225901	3,297005	0,018999	0,060307	-3,90126
ZNF25	0,717989	7,096493	3,295257	0,019038	0,060417	-3,90351
PPM1L	-0,91128	4,780562	-3,29407	0,019064	0,060487	-3,90504
F2RL2	2,560608	1,808625	3,293822	0,01907	0,060487	-3,90536
EXD2	0,955313	4,130265	3,293693	0,019072	0,060487	-3,90552
RPL23	0,399446	11,73772	3,293322	0,019081	0,06049	-3,906
CNTLN	-2,44372	5,21405	-3,29324	0,019083	0,06049	-3,90611
ASB7	0,524272	6,699196	3,293073	0,019086	0,06049	-3,90632
VWC2	1,161809	2,744856	3,292537	0,019098	0,060514	-3,90702
CHD7	0,718109	7,488596	3,291932	0,019112	0,060539	-3,9078
PPP1CA	-0,66338	6,805557	-3,2918	0,019115	0,060539	-3,90796
SIRT2	-1,17549	4,728436	-3,29131	0,019126	0,06056	-3,90859
MAP3K8	-0,62074	6,786846	-3,2909	0,019135	0,060575	-3,90913
LGR4	1,84572	3,604325	3,290719	0,019139	0,060575	-3,90936
KLKB1	1,514774	1,619041	3,288995	0,019178	0,060684	-3,91158
ACSL6	0,535691	6,356176	3,287775	0,019205	0,060751	-3,91316
RGMB	0,923129	4,476363	3,287667	0,019207	0,060751	-3,91329
SLC25A30	-0,56222	5,995233	-3,28706	0,019221	0,06078	-3,91408
MCM7	0,678494	6,199961	3,286651	0,01923	0,060796	-3,9146

DAPK3	-2,49728	2,712748	-3,28556	0,019255	0,06086	-3,91601
SMAP2	0,485146	9,358536	3,285284	0,019261	0,060866	-3,91637
RALGAPA2	0,519643	6,998106	3,283885	0,019293	0,060952	-3,91817
SLC48A1	-2,38486	2,656535	-3,28231	0,019328	0,061051	-3,92021
NEK1	0,67998	7,679115	3,281332	0,01935	0,061104	-3,92147
ZNF326	0,796765	7,963438	3,28115	0,019354	0,061104	-3,9217
TFAP4	0,504314	6,224824	3,280837	0,019362	0,061104	-3,92211
ARMC2	1,072044	4,108295	3,280804	0,019362	0,061104	-3,92215
ARMCX5	-0,74974	5,430024	-3,2801	0,019378	0,061141	-3,92306
CUX1	-0,5529	8,162701	-3,27812	0,019423	0,061245	-3,92561
PELO	0,555739	5,234658	3,278108	0,019423	0,061245	-3,92563
AHSA1	0,446142	7,249406	3,278078	0,019424	0,061245	-3,92567
VNN2	0,557118	7,252075	3,275813	0,019476	0,061394	-3,92859
CD3D	0,680215	7,846797	3,275455	0,019484	0,061406	-3,92906
SPAST	-0,6882	6,939931	-3,27492	0,019496	0,061431	-3,92975
RUSC1	-1,60597	3,738768	-3,2736	0,019526	0,061512	-3,93145
MAN2B2	-0,78425	6,815238	-3,2731	0,019538	0,061534	-3,9321
RASGRP2	0,527116	8,125794	3,272397	0,019554	0,061565	-3,93301
FBXO43	2,904749	1,980695	3,272294	0,019556	0,061565	-3,93314
ZNF175	0,780677	5,338753	3,271291	0,019579	0,061624	-3,93443
HENMT1	-1,10622	5,118041	-3,27089	0,019589	0,061639	-3,93496
TNNT3	3,270726	2,409339	3,270356	0,019601	0,061664	-3,93564
BRIX1	0,801073	7,178485	3,269862	0,019612	0,061675	-3,93628
CREB3L4	0,784053	5,754397	3,269827	0,019613	0,061675	-3,93633
TMCO4	0,4402	5,551463	3,267795	0,01966	0,061808	-3,93895
ZNF236	0,600814	6,761957	3,267162	0,019674	0,061832	-3,93977
ABCD1	-1,9443	3,079458	-3,26709	0,019676	0,061832	-3,93987
QTRT1	0,680046	5,275858	3,266711	0,019685	0,061846	-3,94035
BTD	-2,6956	3,121776	-3,26526	0,019718	0,061937	-3,94223
ARHGAP17	-0,46478	7,251612	-3,2642	0,019743	0,062001	-3,9436
OST4	0,533296	8,918221	3,263545	0,019758	0,062035	-3,94445
FAHD2B	-1,52832	0,76416	-3,26274	0,019777	0,062038	-3,94548
RDH5	-1,52832	0,76416	-3,26274	0,019777	0,062038	-3,94548
GBA	-1,52832	0,76416	-3,26274	0,019777	0,062038	-3,94548
PCDH1	-1,52832	0,76416	-3,26274	0,019777	0,062038	-3,94548
BNC2	1,603446	4,89454	3,258016	0,019887	0,062356	-3,9516
PORCN	-2,67412	2,272846	-3,25801	0,019887	0,062356	-3,9516
HAMP	2,678725	1,672696	3,256625	0,019919	0,062436	-3,9534
KCTD10	0,869539	6,389095	3,256377	0,019925	0,062436	-3,95372
SMAD4	0,423656	8,053868	3,256141	0,019931	0,062436	-3,95402
KIN	0,634756	7,608714	3,256118	0,019931	0,062436	-3,95405
LY6E	-0,88438	5,020708	-3,25598	0,019934	0,062436	-3,95423
HAVCR2	-4,32618	5,0322	-3,25439	0,019972	0,062539	-3,95629
DMPK	1,578989	1,651148	3,253911	0,019983	0,06256	-3,95691
PSMB3	-0,79631	6,801228	-3,25357	0,019991	0,062571	-3,95735
UBE2J2	0,471394	6,820607	3,253163	0,02	0,062587	-3,95788
UBA2	0,42717	8,561464	3,25283	0,020008	0,062598	-3,95831
MOB3C	-2,05442	4,671036	-3,24994	0,020076	0,062797	-3,96205
SLC43A1	1,510757	5,050102	3,24923	0,020093	0,062833	-3,96297
ZNF559	0,492944	5,302644	3,249076	0,020097	0,062833	-3,96317
CHTF8	0,490619	7,419757	3,247939	0,020124	0,062903	-3,96464
EPB41	0,518816	9,813519	3,247596	0,020132	0,062914	-3,96508

ZNF709	2,136086	2,37034	3,246349	0,020161	0,062993	-3,9667
C21orf58	2,091006	3,014467	3,245857	0,020173	0,062996	-3,96734
OSBP	0,439081	7,802713	3,245835	0,020173	0,062996	-3,96737
ROBO1	2,514774	2,119041	3,245737	0,020176	0,062996	-3,96749
B9D2	-3,0148	3,407546	-3,24497	0,020194	0,06304	-3,96849
GEMIN8	-2,21385	2,654876	-3,24405	0,020216	0,063093	-3,96967
SYNCRIP	-0,44862	9,737909	-3,24305	0,02024	0,063154	-3,97098
SLC30A6	0,804313	6,258132	3,242796	0,020246	0,063159	-3,9713
TMEM208	-0,47106	7,03481	-3,2426	0,02025	0,06316	-3,97155
RNMT	0,456395	8,266006	3,24214	0,020261	0,063167	-3,97215
MDGA2	2,150011	3,1181	3,242099	0,020262	0,063167	-3,97221
SLC12A6	0,512172	7,852634	3,241944	0,020266	0,063167	-3,97241
RIMS2	2,554638	3,653747	3,241658	0,020273	0,063174	-3,97278
TAF4B	0,711363	5,984168	3,240956	0,02029	0,063212	-3,97369
MCTS1	0,620029	7,304029	3,240745	0,020295	0,063214	-3,97396
PSMG1	-1,13729	6,244201	-3,23842	0,02035	0,063373	-3,97698
CHUK	-0,6244	6,667901	-3,23818	0,020356	0,063377	-3,97728
CEBPG	-0,47498	7,11958	-3,23639	0,020399	0,063488	-3,97961
GGTA1P	-2,88403	2,377798	-3,23633	0,0204	0,063488	-3,97968
MTA2	0,556906	7,310604	3,235234	0,020427	0,063556	-3,98111
CDC42BPB	-3,48578	4,09465	-3,23456	0,020443	0,063592	-3,98197
LSG1	0,459721	7,315657	3,233289	0,020474	0,063673	-3,98363
FUCA2	-3,79353	4,444718	-3,23301	0,020481	0,063681	-3,98399
LCA5	1,27126	1,968964	3,232424	0,020495	0,06371	-3,98475
CD81	-0,49883	8,076281	-3,23065	0,020538	0,06383	-3,98706
LRIG2	0,871647	6,069194	3,230034	0,020552	0,063862	-3,98785
IGF1R	0,578604	7,876858	3,229416	0,020567	0,063895	-3,98865
PLCXD1	0,643684	5,121423	3,228977	0,020578	0,063914	-3,98922
IL1R2	-3,41242	4,99633	-3,2282	0,020597	0,063935	-3,99023
RABGGTA	-1,88672	3,717338	-3,22815	0,020598	0,063935	-3,99029
NUF2	0,554892	4,264837	3,228136	0,020598	0,063935	-3,99031
TCEANC	0,490059	5,747215	3,226163	0,020646	0,064058	-3,99287
RCOR3	-0,41786	7,765095	-3,22605	0,020649	0,064058	-3,99302
STAG3L2	1,050668	1,915309	3,225893	0,020653	0,064058	-3,99322
PLCE1	1,941476	2,939702	3,225762	0,020656	0,064058	-3,99339
FANCI	0,509159	5,269378	3,225557	0,020661	0,064059	-3,99366
RBM4B	-2,90015	3,493168	-3,22406	0,020698	0,064144	-3,9956
KANSL3	0,466422	7,539853	3,223976	0,0207	0,064144	-3,99571
SLTM	0,433459	10,49915	3,223883	0,020702	0,064144	-3,99583
CNNM2	-2,32467	2,62644	-3,22363	0,020708	0,064148	-3,99616
GFOD2	0,698386	4,935406	3,222056	0,020747	0,064254	-3,99821
ATF7IP	-0,42087	8,306656	-3,22158	0,020758	0,064276	-3,99882
JAK3	0,854176	7,065619	3,220929	0,020774	0,064311	-3,99967
SMYD2	-1,23256	5,780022	-3,21958	0,020807	0,064399	-4,00142
ELK3	0,455813	7,56075	3,218984	0,020822	0,064428	-4,00219
IL10RA	-0,69225	8,982835	-3,21884	0,020826	0,064428	-4,00238
C1orf216	-3,48529	2,976127	-3,21808	0,020844	0,064472	-4,00338
LINC00174	1,434937	4,253245	3,216608	0,020881	0,06457	-4,00528
RARG	-0,59347	4,168307	-3,2156	0,020905	0,064632	-4,00659
TRIM68	-1,97401	3,790133	-3,21501	0,02092	0,064656	-4,00735
FCRL5	-2,18281	2,639358	-3,21492	0,020922	0,064656	-4,00747
ASXL1	0,561486	8,464908	3,214459	0,020934	0,064677	-4,00807

MDN1	0,482639	8,173638	3,213742	0,020951	0,064718	-4,00901
ETNK1	-0,40372	8,642311	-3,21221	0,020989	0,064819	-4,01099
MACC1	1,940465	3,101005	3,212047	0,020993	0,064819	-4,01121
SRSF4	-0,43594	9,176154	-3,21164	0,021004	0,064836	-4,01174
NDUFB11	0,593134	6,579885	3,210361	0,021035	0,06492	-4,0134
SHC1	-0,60979	6,148284	-3,21009	0,021042	0,064927	-4,01375
KLHL8	-0,62036	6,737238	-3,2098	0,021049	0,064934	-4,01412
ATIC	0,607217	6,73182	3,209509	0,021056	0,064943	-4,01451
ERH	0,45849	8,906351	3,207538	0,021106	0,065077	-4,01707
GARS	0,636748	6,712863	3,207401	0,021109	0,065077	-4,01725
UPF2	0,461696	8,692983	3,20698	0,02112	0,065093	-4,0178
EIF4G2	-0,47362	10,391	-3,20683	0,021123	0,065093	-4,018
SPPL3	0,430676	7,437794	3,20587	0,021147	0,065152	-4,01924
ADAM32	2,043094	2,46219	3,204534	0,021181	0,065241	-4,02098
DLC1	1,784709	3,615663	3,204337	0,021186	0,065242	-4,02123
MUC1	-1,87157	1,464106	-3,20311	0,021216	0,065312	-4,02283
RAB18	-0,54337	8,574806	-3,20306	0,021218	0,065312	-4,02289
CAPS	-2,05664	2,13563	-3,2027	0,021227	0,065314	-4,02336
PLK3	-0,68411	5,390541	-3,20266	0,021228	0,065314	-4,02342
RCSD1	-0,53555	8,530883	-3,20248	0,021232	0,065314	-4,02365
AQP3	0,538795	8,227255	3,201964	0,021245	0,065327	-4,02432
IGLL5	2,074131	1,89872	3,20195	0,021246	0,065327	-4,02434
ATP5S	-0,52579	6,216967	-3,20133	0,021261	0,06534	-4,02514
MMP19	-3,06262	2,638617	-3,20129	0,021262	0,06534	-4,0252
MCF2L2	1,614388	4,166133	3,201229	0,021264	0,06534	-4,02528
ULK1	0,567601	6,432888	3,200154	0,021291	0,065409	-4,02668
FAM214A	0,610902	7,67092	3,198762	0,021326	0,065496	-4,02849
EFNA5	1,007456	3,10618	3,198662	0,021328	0,065496	-4,02862
WDR76	0,766592	5,541895	3,198363	0,021336	0,065505	-4,02901
SETX	-0,57981	9,622249	-3,19809	0,021343	0,065512	-4,02936
PEMT	-1,99243	1,524534	-3,19733	0,021362	0,065556	-4,03035
KCMF1	0,500218	7,74801	3,196124	0,021393	0,065636	-4,03192
RNF168	0,459169	8,440523	3,195586	0,021406	0,065655	-4,03262
SCN3A	1,664773	5,347696	3,195511	0,021408	0,065655	-4,03272
NFE2	-2,37643	1,716535	-3,19336	0,021463	0,065808	-4,03552
SCAF8	-0,47084	7,436969	-3,19296	0,021473	0,065825	-4,03604
SPIN3	-0,82018	3,807523	-3,19228	0,02149	0,065856	-4,03693
EID2B	1,001718	4,612656	3,192194	0,021492	0,065856	-4,03704
NPRL2	0,726516	5,787662	3,189067	0,021572	0,066087	-4,04111
PSMB10	-3,07507	2,644844	-3,18791	0,021602	0,066163	-4,04262
ZNF384	0,501275	6,345772	3,187567	0,021611	0,066175	-4,04307
ZNF100	-0,60281	5,655309	-3,18645	0,021639	0,066248	-4,04452
DYNC1LI1	-0,65688	6,805809	-3,18589	0,021654	0,066279	-4,04526
CPSF7	0,548272	8,070062	3,185242	0,02167	0,066315	-4,0461
VPS36	-0,4576	7,982183	-3,18453	0,021689	0,066357	-4,04703
NRM	-3,05664	2,63563	-3,18401	0,021702	0,066383	-4,0477
ZNF763	2,976419	2,154876	3,18329	0,02172	0,066426	-4,04864
MCCC2	0,628976	6,514294	3,181984	0,021754	0,066507	-4,05034
FPR1	-1,66891	5,12226	-3,18189	0,021757	0,066507	-4,05046
ANKRD40	0,446513	6,280807	3,18002	0,021805	0,06664	-4,0529
CDH1	1,299599	4,244678	3,179521	0,021818	0,066658	-4,05356
PBLD	1,740797	2,839362	3,179439	0,02182	0,066658	-4,05366

MON1B	0,402123	8,301887	3,179064	0,02183	0,066672	-4,05415
CRISP1	2,18144	2,285708	3,178891	0,021834	0,066672	-4,05438
TTLL12	-1,83461	3,853089	-3,17768	0,021866	0,066754	-4,05596
DOCK2	-0,43596	7,619342	-3,17628	0,021902	0,06685	-4,05778
EPS15L1	0,648485	5,814399	3,175235	0,021929	0,066919	-4,05915
HMCN1	1,111745	4,940179	3,174875	0,021939	0,066933	-4,05962
CCT2	0,402483	8,971002	3,17459	0,021946	0,066934	-4,05999
MKS1	1,451578	4,663716	3,174503	0,021948	0,066934	-4,0601
GPRASP2	-2,04309	1,549868	-3,17389	0,021964	0,066968	-4,0609
ABHD16A	-2,19499	1,625815	-3,17349	0,021974	0,066985	-4,06142
MTMR6	0,46995	9,038927	3,172298	0,022006	0,067066	-4,06298
HIST2H2BE	-0,63859	5,129947	-3,17181	0,022019	0,067091	-4,06362
EED	0,465411	7,653681	3,170467	0,022054	0,067183	-4,06537
SLC20A1	-0,5137	8,539347	-3,16831	0,02211	0,067341	-4,06818
GPR34	-2,42101	1,984482	-3,16787	0,022122	0,067362	-4,06876
C8orf33	0,840885	6,372633	3,166995	0,022145	0,067417	-4,0699
RBAK	0,459425	6,951806	3,16394	0,022225	0,067648	-4,07389
HERC6	1,061005	4,613145	3,163261	0,022243	0,067688	-4,07478
TNR	2,881285	1,440643	3,162796	0,022256	0,067711	-4,07538
LIG4	0,784737	6,487596	3,162052	0,022275	0,067745	-4,07636
CEP135	0,541408	8,341048	3,162013	0,022276	0,067745	-4,07641
HES6	-1,79744	1,42704	-3,16145	0,022291	0,067775	-4,07714
RPLP1	0,41204	12,0863	3,161112	0,0223	0,067782	-4,07758
WIPI2	0,411902	8,377232	3,16099	0,022304	0,067782	-4,07774
GXYLT1	-0,43685	7,353691	-3,16082	0,022308	0,067782	-4,07796
ZNF649	0,9114	5,14825	3,159663	0,022339	0,067861	-4,07948
NPTX1	2,243396	2,316685	3,159101	0,022354	0,067892	-4,08021
UQCRBP1	1,728465	4,102314	3,15703	0,022409	0,068045	-4,08292
PCM1	0,420883	9,67935	3,156011	0,022436	0,068113	-4,08425
CCDC51	1,229456	4,691001	3,155429	0,022452	0,068134	-4,08501
SNORD6	1,845647	2,965918	3,155395	0,022453	0,068134	-4,08505
PSME1	-0,48761	9,432672	-3,15497	0,022464	0,068153	-4,0856
RSBN1L	0,426066	8,79965	3,153691	0,022498	0,068243	-4,08728
RPS26	0,731899	4,63721	3,151947	0,022545	0,068359	-4,08956
CXCL13	2,469797	1,901565	3,151897	0,022546	0,068359	-4,08963
S100PBP	0,53601	7,02977	3,150274	0,02259	0,068477	-4,09175
PLCB2	-1,01162	6,33549	-3,14911	0,022621	0,068558	-4,09328
WIZ	0,77356	6,132018	3,148899	0,022627	0,06856	-4,09355
TXNDC15	-0,55694	6,479622	-3,14842	0,02264	0,068584	-4,09417
MED21	-1,32947	4,376638	-3,14721	0,022672	0,068668	-4,09575
PPP1R2	0,504827	8,330339	3,146501	0,022692	0,068712	-4,09668
PPP2R5C	0,439291	10,51795	3,146088	0,022703	0,068731	-4,09722
INTS12	-1,14049	4,280005	-3,1459	0,022708	0,068732	-4,09747
TXNL1	0,597733	7,547573	3,145524	0,022718	0,068748	-4,09796
CACNA1C	2,862905	2,431452	3,144569	0,022744	0,068811	-4,09921
OCRL	-3,01694	3,305909	-3,14422	0,022754	0,068823	-4,09967
PROSER1	0,545019	6,50295	3,144066	0,022758	0,068823	-4,09987
NUDT2	0,8525	4,743345	3,143345	0,022777	0,068858	-4,10081
SPRYD3	-1,14627	5,680914	-3,14328	0,022779	0,068858	-4,1009
PPIL4	0,641109	8,554837	3,143057	0,022785	0,068862	-4,10119
ITGB7	-0,56371	6,61507	-3,14251	0,0228	0,068885	-4,10191
NUDT14	-2,19499	1,87147	-3,14241	0,022803	0,068885	-4,10203

UPF3A	0,557993	6,964776	3,142013	0,022813	0,068903	-4,10256
ZNF512	0,945868	6,244497	3,141805	0,022819	0,068906	-4,10283
CIDEB	-2,21845	2,657177	-3,14109	0,022839	0,068944	-4,10376
CCL5	0,47479	10,23647	3,140896	0,022844	0,068944	-4,10402
MCAT	-1,72331	1,194988	-3,14081	0,022846	0,068944	-4,10414
GYG1	-1,00137	5,801493	-3,13918	0,022891	0,069063	-4,10626
CNOT7	0,409871	8,609771	3,137384	0,02294	0,069196	-4,10862
UCN	2,369441	3,858843	3,13713	0,022947	0,069202	-4,10895
FILIP1L	1,344066	4,105102	3,136825	0,022955	0,069213	-4,10935
TM9SF4	0,524982	6,964525	3,136277	0,02297	0,069243	-4,11007
SKIL	-0,55118	8,488598	-3,13595	0,022979	0,069256	-4,11049
GORASP1	-1,82848	4,491344	-3,13531	0,022997	0,069283	-4,11133
SEC24B	0,615261	6,51069	3,135257	0,022998	0,069283	-4,1114
ESM1	1,497284	2,189285	3,134979	0,023006	0,069292	-4,11177
GCDH	-1,59086	3,959383	-3,13371	0,023041	0,069372	-4,11343
ZNF525	0,73113	6,808264	3,133645	0,023042	0,069372	-4,11351
BMI1	0,417517	7,480451	3,130889	0,023118	0,069581	-4,11712
SERPINB8	-3,74909	4,250973	-3,13077	0,023122	0,069581	-4,11728
SERPINB1	-0,7972	7,40293	-3,13001	0,023143	0,06963	-4,11828
RBM23	0,502196	8,458671	3,129132	0,023167	0,069688	-4,11943
SNX2	-0,53742	7,988613	-3,12858	0,023182	0,069719	-4,12014
RCCD1	-1,06964	4,369927	-3,12732	0,023217	0,069809	-4,1218
AMT	1,440643	1,053655	3,126309	0,023245	0,069834	-4,12313
GPR26	1,440643	1,053655	3,126309	0,023245	0,069834	-4,12313
KAAG1	1,440643	1,053655	3,126309	0,023245	0,069834	-4,12313
WDR93	1,440643	1,053655	3,126309	0,023245	0,069834	-4,12313
ARHGEF3	0,487152	8,221226	3,125944	0,023255	0,06985	-4,1236
EXTL2	1,509188	4,446866	3,124238	0,023303	0,069967	-4,12584
TMEM9	0,515207	5,657341	3,124184	0,023304	0,069967	-4,12591
PSMG4	0,735759	6,412163	3,123188	0,023332	0,070026	-4,12722
ZNF347	0,985795	5,269496	3,123029	0,023336	0,070026	-4,12742
EIF3B	0,611378	7,422226	3,122944	0,023339	0,070026	-4,12754
USP42	0,578101	7,182036	3,122739	0,023345	0,070029	-4,12781
PRMT6	0,45242	5,544124	3,122008	0,023365	0,070075	-4,12876
DCUN1D1	-0,4542	6,79911	-3,12183	0,02337	0,070075	-4,12899
IFIT3	-1,95816	6,906161	-3,12153	0,023378	0,070085	-4,12939
CSTF2	0,551152	5,392878	3,121231	0,023387	0,070096	-4,12978
MED22	-1,49919	3,792689	-3,12085	0,023397	0,070113	-4,13028
ESRRA	-0,99508	6,194301	-3,12055	0,023406	0,070123	-4,13068
CCND2	-0,4306	9,146069	-3,11937	0,023439	0,070202	-4,13223
ACACB	0,837185	5,078222	3,119249	0,023442	0,070202	-4,13238
DDX20	0,908996	6,776473	3,118926	0,023451	0,070215	-4,13281
ARHGAP5	0,437879	8,067573	3,118585	0,023461	0,070228	-4,13325
SETD2	0,45809	8,995077	3,117077	0,023503	0,07034	-4,13523
GZF1	-0,98777	3,932267	-3,11644	0,023521	0,070379	-4,13607
RNF10	0,523739	8,250397	3,116086	0,023531	0,070394	-4,13653
RFC3	-0,69377	4,922115	-3,11377	0,023596	0,070574	-4,13957
MYO19	1,074839	5,893826	3,113542	0,023603	0,070579	-4,13987
CDH19	1,627839	4,083038	3,112551	0,023631	0,070648	-4,14117
COPS7B	0,675396	5,643426	3,111555	0,023659	0,070717	-4,14248
RNASEH1	0,624365	6,927628	3,110962	0,023676	0,070734	-4,14326
PANK1	-1,79744	1,232053	-3,11076	0,023682	0,070734	-4,14352

CARD9	-2,69759	2,348793	-3,11052	0,023688	0,070734	-4,14384
RABGAP1L	0,395781	8,455924	3,110457	0,02369	0,070734	-4,14392
RBM4	0,529963	7,244742	3,110442	0,023691	0,070734	-4,14394
TMEM101	-0,66296	5,534099	-3,11026	0,023696	0,070734	-4,14417
SPRED2	-1,49514	2,521547	-3,11012	0,0237	0,070734	-4,14436
ULK2	0,624511	5,700741	3,108098	0,023757	0,070881	-4,14702
BARD1	0,849532	6,153658	3,108036	0,023759	0,070881	-4,1471
LRG1	-2,33145	1,832392	-3,10694	0,02379	0,070959	-4,14854
SLC25A1	-2,66478	2,773035	-3,10555	0,02383	0,071062	-4,15036
LUC7L	0,620827	8,559177	3,105304	0,023837	0,071068	-4,15068
KCNA3	1,150565	5,051054	3,104836	0,02385	0,071077	-4,1513
FAHD1	-1,44632	4,966935	-3,1048	0,023851	0,071077	-4,15134
CCAR1	0,419208	10,30093	3,104665	0,023855	0,071077	-4,15152
C18orf54	1,070268	5,066848	3,103533	0,023887	0,071159	-4,15301
RAB27A	0,484099	8,834162	3,102426	0,023919	0,071228	-4,15446
UBE2N	0,505474	8,324211	3,10224	0,023925	0,071228	-4,15471
RPL27A	0,504271	12,42644	3,102201	0,023926	0,071228	-4,15476
AURKB	-2,09759	1,822773	-3,10115	0,023956	0,071302	-4,15614
NUBP1	-1,39983	5,484666	-3,10016	0,023984	0,071372	-4,15744
PRKAR1B	1,255178	2,79154	3,099857	0,023993	0,071383	-4,15784
PACSIN2	-0,75086	5,979072	-3,09967	0,023998	0,071384	-4,15808
S100A13	2,404796	3,592373	3,099303	0,024009	0,0714	-4,15857
FTO	0,756079	6,122579	3,098361	0,024036	0,071466	-4,15981
MYH10	2,139284	3,176951	3,098092	0,024044	0,071474	-4,16016
NSUN3	-0,72311	5,420617	-3,09626	0,024097	0,071616	-4,16257
P2RY10	0,563011	7,319553	3,095903	0,024107	0,071632	-4,16304
STK17B	0,405295	10,34147	3,095083	0,024131	0,071687	-4,16411
C8orf44	1,244715	5,428308	3,094902	0,024136	0,071688	-4,16435
TM2D3	0,585953	7,612716	3,092763	0,024198	0,071847	-4,16716
POLR3A	0,820996	5,548341	3,09257	0,024204	0,071847	-4,16742
ACSF2	-1,82848	2,021547	-3,09253	0,024205	0,071847	-4,16747
CDK13	0,473592	8,154806	3,092333	0,024211	0,071849	-4,16773
PLEC	-1,58321	4,934044	-3,09171	0,024229	0,071888	-4,16855
SPTLC2	-0,46985	7,874186	-3,09045	0,024265	0,071982	-4,17021
RRP1B	0,465249	7,862146	3,089954	0,02428	0,072009	-4,17086
CD46	-0,525	8,828151	-3,08881	0,024313	0,072093	-4,17236
FBXW8	0,954711	4,541453	3,088249	0,02433	0,072126	-4,1731
C20orf194	-1,67045	5,207013	-3,08762	0,024348	0,072158	-4,17393
CAPNS1	-0,601	7,072065	-3,08753	0,02435	0,072158	-4,17404
NVL	0,546811	6,37045	3,086792	0,024372	0,072206	-4,17502
SPINK5	1,445957	2,112953	3,086601	0,024378	0,072206	-4,17527
KLHL3	1,258991	5,266064	3,08645	0,024382	0,072206	-4,17547
SLC5A12	2,5917	2,759956	3,086171	0,02439	0,072215	-4,17584
ABL2	-0,43356	6,629819	-3,08593	0,024397	0,072221	-4,17615
ZFC3H1	0,66271	8,910235	3,085453	0,024411	0,072239	-4,17678
UTP23	0,524334	7,758893	3,085373	0,024414	0,072239	-4,17689
ARHGDIA	-0,58069	6,903053	-3,08469	0,024434	0,072284	-4,17779
ARRB1	-3,48659	4,291247	-3,08378	0,02446	0,072336	-4,17898
NFX1	0,53177	6,814689	3,083577	0,024466	0,072336	-4,17925
TIMMDC1	0,389762	7,85744	3,083473	0,024469	0,072336	-4,17939
OPTN	0,457857	8,867277	3,083391	0,024472	0,072336	-4,17949
SEC31B	1,056752	5,94247	3,082983	0,024484	0,072356	-4,18003

CASP7	-0,59166	7,09024	-3,08253	0,024497	0,07238	-4,18063
SF3B1	0,488344	10,23357	3,081663	0,024523	0,072441	-4,18177
PICALM	-0,48529	8,427342	-3,08132	0,024533	0,072456	-4,18222
NEDD1	0,38558	7,878347	3,080547	0,024556	0,072508	-4,18324
INSIG2	0,42167	6,802864	3,080077	0,02457	0,072533	-4,18386
FAM118A	0,462689	7,233139	3,078329	0,024621	0,072671	-4,18616
MOK	2,112623	2,112953	3,077483	0,024646	0,072697	-4,18727
EHMT1	0,542318	7,395447	3,07743	0,024648	0,072697	-4,18734
GSS	0,571353	5,955459	3,077169	0,024656	0,072697	-4,18768
CCNI	-0,95862	9,981939	-3,07716	0,024656	0,072697	-4,1877
RNF181	-1,2197	6,711946	-3,07711	0,024657	0,072697	-4,18776
PUS3	0,554661	6,430133	3,076995	0,024661	0,072697	-4,18791
MORN3	0,788357	6,348086	3,076508	0,024675	0,072724	-4,18855
HOOK1	0,53881	6,224528	3,074667	0,02473	0,07287	-4,19098
STX8	-0,44561	5,679995	-3,07399	0,02475	0,072915	-4,19188
SNN	-1,2368	5,698665	-3,07324	0,024772	0,072965	-4,19286
SPTAN1	0,489352	6,212135	3,072791	0,024786	0,072989	-4,19345
OTUD3	-1,03183	4,867677	-3,07232	0,0248	0,073015	-4,19407
GLA	-3,91462	4,588917	-3,07159	0,024822	0,073064	-4,19503
ERRFI1	-2,21845	1,883201	-3,07055	0,024853	0,073141	-4,19641
PRKAG2	-0,44725	7,351854	-3,07032	0,024859	0,073145	-4,1967
SULF2	-3,90234	4,582774	-3,06964	0,02488	0,073183	-4,1976
NEFH	-1,70976	1,188214	-3,06955	0,024883	0,073183	-4,19772
TP53INP2	-3,2678	2,867378	-3,06929	0,02489	0,07319	-4,19806
MMACHC	-0,93333	3,069114	-3,06902	0,024899	0,073199	-4,19842
MIA2	0,455579	7,404571	3,06753	0,024943	0,073315	-4,20038
FTSJ1	-0,60819	5,756521	-3,06723	0,024952	0,073321	-4,20078
FAHD2A	0,842133	3,729337	3,067115	0,024956	0,073321	-4,20093
RFK	-0,84567	7,235321	-3,06656	0,024973	0,073334	-4,20167
MYO10	0,922238	3,958403	3,066509	0,024974	0,073334	-4,20173
ZNF257	1,33172	4,268312	3,066452	0,024976	0,073334	-4,2018
MEX3C	0,410373	8,647742	3,065971	0,02499	0,073361	-4,20244
TAGLN	0,721822	3,965505	3,065784	0,024996	0,073363	-4,20268
PAFAH1B1	0,409486	8,952808	3,064675	0,025029	0,073423	-4,20415
FICD	-3,17917	3,96601	-3,06461	0,025031	0,073423	-4,20423
RBM43	0,555092	6,395629	3,06458	0,025032	0,073423	-4,20427
SCYL3	0,704594	6,793245	3,063517	0,025064	0,073494	-4,20567
MASTL	0,726639	5,593555	3,063443	0,025066	0,073494	-4,20577
GSPT1	0,407436	9,004935	3,062383	0,025098	0,073569	-4,20717
ATR	0,593041	7,551654	3,062242	0,025103	0,073569	-4,20735
LMO2	-3,61783	3,885189	-3,06179	0,025116	0,073581	-4,20795
EXOSC1	0,615889	5,563592	3,061709	0,025119	0,073581	-4,20806
CCDC9	-2,32576	1,936856	-3,06133	0,02513	0,073581	-4,20856
NUP35	0,546468	6,180325	3,061303	0,025131	0,073581	-4,20859
DNAH14	1,47339	3,510671	3,06125	0,025133	0,073581	-4,20866
PLBD2	-3,56421	4,467198	-3,06093	0,025142	0,073594	-4,20908
ZWILCH	-0,44506	6,310988	-3,06025	0,025163	0,073639	-4,20998
TCN1	-1,70976	1,383201	-3,05999	0,025171	0,073647	-4,21032
CCNL1	-0,46535	10,46746	-3,05903	0,0252	0,073714	-4,21158
EXOG	0,992427	5,446796	3,058893	0,025204	0,073714	-4,21177
PCBP3	1,504463	3,29535	3,058484	0,025217	0,073735	-4,21231
ZRSR2	0,498255	7,654087	3,056389	0,02528	0,073906	-4,21507

SMG6	0,573285	6,310208	3,055866	0,025296	0,073925	-4,21576
PRKAR2A	-0,49825	8,558174	-3,05583	0,025297	0,073925	-4,21581
ZNF420	0,703916	6,178552	3,055586	0,025305	0,073932	-4,21613
DUS1L	0,519046	5,593025	3,055148	0,025318	0,073941	-4,21671
CEP89	0,731983	5,446007	3,055037	0,025322	0,073941	-4,21686
PNRC1	-0,64273	10,26578	-3,05498	0,025323	0,073941	-4,21694
NUP155	0,429928	6,384796	3,05473	0,025331	0,073947	-4,21726
SMARCB1	-0,6004	5,533211	-3,05456	0,025336	0,073947	-4,21748
LINC00339	1,571415	4,583147	3,053844	0,025358	0,073996	-4,21843
PPP1R3B	0,858466	5,544172	3,053049	0,025382	0,074052	-4,21948
ACSS3	2,445957	2,946287	3,052133	0,02541	0,07411	-4,22069
UBXN11	-2,3568	1,952374	-3,05206	0,025413	0,07411	-4,22079
CBX7	0,429438	8,730773	3,05099	0,025445	0,07419	-4,2222
ACSS2	-2,52265	2,927993	-3,05044	0,025462	0,074224	-4,22292
ZBTB16	0,962601	4,751357	3,049935	0,025478	0,074254	-4,22359
PXDN	2,204903	1,630772	3,049334	0,025496	0,074292	-4,22438
CCT4	0,484151	8,118291	3,047584	0,02555	0,074434	-4,22669
CSPG5	2,547952	1,273976	3,046699	0,025578	0,074483	-4,22786
DMRTA2	2,547952	1,273976	3,046699	0,025578	0,074483	-4,22786
MRPL1	0,72733	7,239636	3,045908	0,025602	0,074539	-4,22891
DHRS4L2	-2,13077	1,839362	-3,0456	0,025612	0,074551	-4,22932
OCEL1	-2,53281	2,902034	-3,0446	0,025642	0,074626	-4,23063
BIRC6	0,615136	8,959291	3,044177	0,025656	0,07463	-4,23119
AVEN	0,708372	4,464492	3,044159	0,025656	0,07463	-4,23122
CLCN2	2,029827	3,812353	3,043876	0,025665	0,07463	-4,23159
C7orf50	0,51291	6,836065	3,043864	0,025665	0,07463	-4,23161
RHOBTB1	-1,99243	1,66288	-3,04292	0,025695	0,0747	-4,23286
FAM111A	-0,47784	8,440534	-3,04232	0,025713	0,074725	-4,23364
UBE2G2	0,58592	7,481434	3,04231	0,025713	0,074725	-4,23366
C1RL	-0,98146	4,842488	-3,04158	0,025736	0,074776	-4,23463
WHAMMP3	0,899249	4,730408	3,040987	0,025755	0,074793	-4,23541
TERF2IP	0,378908	9,939221	3,040889	0,025758	0,074793	-4,23554
RBMX	0,404587	9,327685	3,040867	0,025758	0,074793	-4,23557
TCOF1	0,519666	7,457814	3,038456	0,025833	0,074996	-4,23875
GYPA	2,269118	2,575202	3,038094	0,025845	0,075014	-4,23923
COG6	-1,17126	6,290216	-3,03778	0,025855	0,075026	-4,23964
LINC00115	1,622737	3,137128	3,034852	0,025946	0,075277	-4,24351
ERC1	-0,52534	6,709289	-3,03453	0,025956	0,075291	-4,24394
CYC1	-1,13084	6,27471	-3,03281	0,02601	0,075405	-4,24621
NOC3L	0,52073	7,12723	3,032803	0,026011	0,075405	-4,24622
SSH1	-0,52175	7,396858	-3,03277	0,026012	0,075405	-4,24626
TRAF3	0,427545	8,463428	3,031808	0,026042	0,075477	-4,24754
AGPAT3	-0,63934	7,677784	-3,03102	0,026067	0,075534	-4,24859
TCN2	-2,70952	3,411403	-3,02981	0,026105	0,075627	-4,25018
B3GALNT2	0,873591	4,203198	3,02966	0,02611	0,075627	-4,25038
DHRS7	-0,61485	7,35647	-3,02864	0,026142	0,075706	-4,25173
PDCD6	0,478619	8,720922	3,027945	0,026164	0,075753	-4,25265
AP4S1	0,632394	5,288188	3,026579	0,026207	0,075863	-4,25445
TRIM11	0,550729	7,468861	3,025138	0,026253	0,07598	-4,25636
RBM42	0,634837	5,647852	3,023241	0,026313	0,07609	-4,25887
SKP2	0,573154	5,655159	3,02324	0,026313	0,07609	-4,25887
EFCAB5	2,269118	2,403677	3,023039	0,02632	0,07609	-4,25914

COL6A2	-1,60245	0,801226	-3,02293	0,026323	0,07609	-4,25928
DPCD	-1,60245	0,801226	-3,02293	0,026323	0,07609	-4,25928
IL12A	-1,60245	0,801226	-3,02293	0,026323	0,07609	-4,25928
CDK1	2,524681	3,500422	3,021863	0,026357	0,076173	-4,26069
SSBP2	0,483473	6,567433	3,021646	0,026364	0,076177	-4,26098
HDAC1	0,461952	7,887825	3,02092	0,026387	0,076229	-4,26194
PHF13	0,463688	5,954526	3,02054	0,0264	0,076248	-4,26244
NR4A3	-0,781	4,508581	-3,02004	0,026415	0,076278	-4,2631
CYP46A1	3,018427	2,704201	3,019471	0,026434	0,076316	-4,26386
ARL1	-0,4477	7,638457	-3,01902	0,026448	0,076329	-4,26445
FCHSD1	-1,00363	4,85006	-3,01899	0,026449	0,076329	-4,2645
PAAF1	0,805515	5,721973	3,018276	0,026472	0,076379	-4,26544
ZNF254	0,538249	4,831874	3,01774	0,026489	0,076413	-4,26615
CTNNB1	-0,51866	8,962888	-3,01687	0,026517	0,076479	-4,26731
YJEFN3	2,649456	2,324728	3,016299	0,026536	0,076516	-4,26806
WDFY4	-0,55254	6,74253	-3,01593	0,026547	0,076534	-4,26854
HAGHL	-1,9183	1,292481	-3,0155	0,026561	0,076559	-4,26912
FCGBP	1,595968	3,521292	3,014935	0,026579	0,076595	-4,26986
RAB35	-0,51408	6,400263	-3,01472	0,026586	0,0766	-4,27015
TMEM70	-0,51947	7,633196	-3,01393	0,026612	0,076658	-4,2712
10-mar	2,126941	1,925124	3,013323	0,026631	0,076698	-4,272
SENP6	0,498237	9,011901	3,012365	0,026662	0,076772	-4,27327
GMEB2	0,524105	6,864623	3,011735	0,026683	0,076815	-4,2741
KLHL36	0,415641	8,135264	3,011455	0,026692	0,076825	-4,27447
ORC4	0,446213	6,637851	3,011247	0,026699	0,076829	-4,27475
SIPA1L2	-0,5272	5,980365	-3,0104	0,026726	0,076892	-4,27587
SRGAP2	-3,13752	4,867033	-3,00986	0,026744	0,076927	-4,27659
CSNK1D	0,429722	7,911742	3,009269	0,026763	0,076956	-4,27737
MDM2	-0,39426	8,443174	-3,00915	0,026767	0,076956	-4,27753
CASP8AP2	0,377029	8,609045	3,008437	0,02679	0,076956	-4,27847
C10orf91	1,194988	0,930827	3,008371	0,026792	0,076956	-4,27856
CEACAM22	1,194988	0,930827	3,008371	0,026792	0,076956	-4,27856
PTH1R	1,194988	0,930827	3,008371	0,026792	0,076956	-4,27856
TMEM45A	1,194988	0,930827	3,008371	0,026792	0,076956	-4,27856
ZNF599	1,196917	4,703886	3,007763	0,026812	0,076997	-4,27936
HSD17B12	-0,79374	6,011668	-3,00664	0,026848	0,077087	-4,28085
DDX39A	0,398016	6,752882	3,004902	0,026905	0,077234	-4,28316
GAB2	-0,86448	6,483649	-3,00461	0,026914	0,077241	-4,28354
ARID5B	0,439002	8,714313	3,004492	0,026918	0,077241	-4,2837
ENG	-1,3511	5,416882	-3,00396	0,026935	0,077268	-4,2844
C2orf42	0,464779	4,261544	3,00387	0,026939	0,077268	-4,28452
DACT1	-1,57142	1,785708	-3,00364	0,026946	0,077274	-4,28483
CHAF1B	-1,05664	0,861654	-3,00186	0,027004	0,077409	-4,28718
NR2F6	-1,05664	0,861654	-3,00186	0,027004	0,077409	-4,28718
GAS2L3	-1,61428	3,957543	-3,00164	0,027012	0,077415	-4,28748
RNF115	0,398201	8,440941	3,001086	0,02703	0,077451	-4,28821
ALDH1A3	2,238082	1,785708	3,000473	0,02705	0,077483	-4,28903
CHID1	-0,99004	5,636757	-3,00041	0,027052	0,077483	-4,28911
PEX19	-0,47831	6,70707	-2,99989	0,027069	0,077516	-4,2898
ZNF229	1,63563	1,484482	2,998832	0,027104	0,077585	-4,2912
HIST1H1E	-2,41913	2,983541	-2,99883	0,027104	0,077585	-4,29121
TBC1D4	0,576424	8,312284	2,998017	0,027131	0,077646	-4,29228

ADCY3	-1,48983	3,419037	-2,9962	0,027191	0,077797	-4,29469
ZNF335	0,727646	6,170564	2,996007	0,027197	0,077797	-4,29495
HRH4	-2,2049	1,769118	-2,99591	0,0272	0,077797	-4,29508
CENPA	1,830618	1,44363	2,995456	0,027215	0,077798	-4,29568
SYT1	1,830618	1,44363	2,995456	0,027215	0,077798	-4,29568
RELA	0,424916	8,514282	2,995402	0,027217	0,077798	-4,29575
SLC7A6	0,703994	6,135413	2,994746	0,027239	0,07782	-4,29662
BTN3A2	0,500647	8,243215	2,99469	0,027241	0,07782	-4,2967
ATG7	-0,79175	5,935048	-2,99459	0,027244	0,07782	-4,29683
ABHD2	-0,40423	8,632442	-2,9945	0,027247	0,07782	-4,29694
PSMB5	0,474015	6,595111	2,993596	0,027277	0,07789	-4,29815
GPR171	0,541264	8,271107	2,993268	0,027288	0,077906	-4,29858
KIF2A	0,470855	9,23229	2,992156	0,027325	0,077995	-4,30006
NPM2	2,604594	1,968964	2,991306	0,027353	0,07806	-4,30118
RAP2A	-0,47832	7,930432	-2,99009	0,027393	0,07816	-4,3028
TNFSF12	-1,01882	5,8812	-2,98907	0,027427	0,078241	-4,30415
ZNF665	2,571415	2,147362	2,988769	0,027437	0,078254	-4,30455
NOA1	0,814586	6,396776	2,988483	0,027447	0,078265	-4,30493
HDDC2	0,768595	6,299422	2,986894	0,0275	0,078401	-4,30704
CCDC122	1,261799	5,08634	2,986123	0,027526	0,078449	-4,30806
CRTC2	0,86895	5,848569	2,986053	0,027528	0,078449	-4,30815
PIK3R2	-2,60991	2,304954	-2,98393	0,027599	0,078636	-4,31097
IL23A	0,948892	5,715951	2,983675	0,027608	0,078645	-4,31131
NCSTN	-2,00395	5,237043	-2,98299	0,027631	0,078695	-4,31223
POFUT1	-0,94563	4,909214	-2,98236	0,027652	0,078739	-4,31306
LAMTOR1	-0,41001	8,166305	-2,98189	0,027668	0,078748	-4,31369
CSTF2T	0,579832	7,44014	2,981787	0,027671	0,078748	-4,31382
CDKN1C	1,529981	5,560143	2,981776	0,027672	0,078748	-4,31383
CSRNP1	-0,76081	7,038287	-2,98154	0,02768	0,078755	-4,31415
PTPN6	-1,07955	6,47582	-2,98065	0,02771	0,078824	-4,31533
POLG2	0,736802	7,002738	2,979471	0,027749	0,078921	-4,31689
GPR132	0,766883	5,897342	2,979139	0,027761	0,078937	-4,31734
SERPINH1	-0,67264	4,580093	-2,97895	0,027767	0,07894	-4,31759
CHMP4A	0,661852	5,542671	2,977844	0,027804	0,079028	-4,31906
PRDM1	-0,48228	8,473736	-2,97769	0,02781	0,079028	-4,31926
BLVRA	-3,58674	4,548967	-2,97746	0,027818	0,079035	-4,31957
HIPK1	0,471279	9,016938	2,977104	0,027829	0,079053	-4,32004
CASP2	0,371607	7,083776	2,975397	0,027887	0,079202	-4,32231
SSR4	0,518222	8,028678	2,973629	0,027948	0,079357	-4,32466
SLC4A8	1,334728	4,290819	2,970063	0,028069	0,079686	-4,3294
GPSM1	-1,84327	2,223934	-2,96971	0,028081	0,079705	-4,32987
METTL5	0,721312	6,964573	2,969405	0,028092	0,07971	-4,33027
DENND5A	0,504809	6,736487	2,969046	0,028104	0,07971	-4,33075
ZNF575	-1,86165	3,320802	-2,969	0,028105	0,07971	-4,3308
MICU1	-1,61889	5,817077	-2,969	0,028106	0,07971	-4,33081
MBIP	0,676447	5,615375	2,968523	0,028122	0,07974	-4,33144
METTL18	0,757199	5,152881	2,967621	0,028153	0,07981	-4,33264
PTENP1	1,162913	4,737834	2,967473	0,028158	0,07981	-4,33284
ACSF3	0,771156	5,79398	2,966544	0,02819	0,079885	-4,33407
YTHDF2	0,596189	7,937934	2,965143	0,028238	0,079993	-4,33594
IWS1	0,370364	8,606555	2,965098	0,02824	0,079993	-4,336
DPF2	0,521112	6,596991	2,964245	0,028269	0,080061	-4,33713

KIAA1147	0,415746	8,164059	2,962948	0,028314	0,080171	-4,33886
SPTBN1	0,461812	8,131059	2,962422	0,028332	0,0802	-4,33955
VPS54	-0,45394	6,121007	-2,96223	0,028339	0,0802	-4,33981
ALG5	-0,44978	7,16376	-2,96217	0,028341	0,0802	-4,3399
ENPP3	1,974277	2,905435	2,961176	0,028375	0,080281	-4,34121
MAPK8IP3	0,604453	5,989146	2,96033	0,028404	0,080347	-4,34234
HEMGN	1,556652	5,357197	2,95915	0,028445	0,080447	-4,34391
ARSD	-3,43461	3,931925	-2,95847	0,028469	0,080498	-4,34481
POMT1	-2,39755	2,66288	-2,95811	0,028481	0,080517	-4,34529
DDX39B	1,343188	5,030532	2,957801	0,028492	0,080531	-4,3457
KDM5B	0,633607	7,652478	2,957356	0,028508	0,080551	-4,34629
FAM78B	2,269118	1,801226	2,957059	0,028518	0,080551	-4,34669
ZBTB42	-2,73834	2,304954	-2,95698	0,028521	0,080551	-4,34679
HSP90AB3I	0,633437	8,646266	2,956944	0,028522	0,080551	-4,34684
NOD1	-2,69592	3,391055	-2,95664	0,028532	0,080565	-4,34724
EWSR1	0,445721	9,198223	2,955411	0,028575	0,08067	-4,34888
NUDT1	-1,52884	4,579769	-2,95433	0,028613	0,08076	-4,35032
EPHX2	0,942888	5,02537	2,953971	0,028626	0,08078	-4,3508
ZNF556	2,376428	1,521547	2,953572	0,02864	0,080797	-4,35133
GGT7	-2,19499	1,87147	-2,95347	0,028643	0,080797	-4,35147
INO80C	-0,53909	4,98676	-2,9532	0,028653	0,080807	-4,35182
MTIF3	0,401344	7,91176	2,952995	0,02866	0,080811	-4,3521
OCIAD1	0,40181	9,625511	2,952795	0,028667	0,080815	-4,35236
UHRF2	0,388388	7,380577	2,951787	0,028702	0,080898	-4,35371
AMMECR1L	0,703793	6,475186	2,949811	0,028772	0,081078	-4,35634
METTL3	0,548679	6,399353	2,948871	0,028805	0,081155	-4,35759
LAMTOR2	-1,23387	6,119099	-2,94799	0,028836	0,081213	-4,35876
ADAMTS6	1,254076	4,307134	2,94796	0,028837	0,081213	-4,3588
PIGO	0,842492	4,635865	2,947602	0,028849	0,081232	-4,35928
PPP2R3B	1,543706	5,136105	2,947326	0,028859	0,081243	-4,35965
UTP20	0,797224	6,567407	2,947115	0,028866	0,081248	-4,35993
PPIP5K2	-0,51282	8,086856	-2,94601	0,028906	0,081342	-4,3614
CSTF1	0,517485	6,875928	2,945222	0,028933	0,081404	-4,36245
FNBP4	0,485905	9,712993	2,944866	0,028946	0,081423	-4,36292
VWA5A	0,754738	4,658152	2,943481	0,028995	0,081545	-4,36477
THOC3	-0,50064	4,744251	-2,94165	0,02906	0,081712	-4,36721
CLIC1	-0,74727	7,607768	-2,94133	0,029071	0,081727	-4,36763
QSER1	-0,81194	6,75923	-2,94068	0,029095	0,081776	-4,36851
EEF2	0,381962	10,93629	2,939228	0,029146	0,081905	-4,37043
TAF13	-0,54388	6,664336	-2,93895	0,029156	0,081917	-4,37081
BBC3	-0,3945	7,540761	-2,93838	0,029177	0,081958	-4,37157
RAD17	0,431988	7,834049	2,937729	0,0292	0,082003	-4,37243
DTX2	-1,30724	4,745563	-2,9376	0,029204	0,082003	-4,3726
ZNF726	-1,60245	1,996213	-2,93671	0,029236	0,082076	-4,37378
KPNA6	0,660483	7,378613	2,936463	0,029245	0,082085	-4,37412
CCRL2	-2,95528	3,584951	-2,93522	0,029289	0,082193	-4,37577
ZNF710	-3,25031	4,127751	-2,9332	0,029362	0,082368	-4,37847
MAP2K5	0,604912	5,7474	2,933157	0,029364	0,082368	-4,37853
PCBD1	-2,27622	3,861419	-2,9324	0,029391	0,082428	-4,37953
GLOD4	0,481529	7,668511	2,931623	0,029419	0,08249	-4,38057
RNF135	-1,30746	4,960388	-2,93112	0,029437	0,082525	-4,38125
IL17RC	-2	2,440643	-2,93064	0,029454	0,082557	-4,38188

UCHL3	-2,9443	3,741267	-2,93015	0,029472	0,082575	-4,38254
NOSIP	0,51467	6,594796	2,930135	0,029472	0,082575	-4,38256
TPT1	0,650866	12,89556	2,929599	0,029492	0,082613	-4,38327
ZBTB46	-2,4698	2,624873	-2,92888	0,029518	0,082669	-4,38423
MRPS14	0,549985	6,415104	2,927951	0,029551	0,082747	-4,38547
SEC23B	-0,43495	7,660167	-2,92753	0,029566	0,082773	-4,38602
MAGT1	-0,52173	7,45936	-2,92734	0,029573	0,082776	-4,38628
ARMC10	-1,24527	5,29246	-2,92707	0,029583	0,082787	-4,38664
TRIM5	-0,80438	5,924543	-2,92691	0,029589	0,082787	-4,38685
PHC2	-0,51497	5,618175	-2,92609	0,029619	0,082854	-4,38795
TCEA1	0,650654	7,333094	2,92593	0,029625	0,082854	-4,38816
NRBP2	-2,38614	2,657177	-2,9247	0,029669	0,082963	-4,38981
JUP	-2,12968	2,528946	-2,92246	0,029751	0,083174	-4,39279
PA2G4	0,42409	9,080276	2,921281	0,029794	0,083266	-4,39437
AGFG1	0,54455	8,63545	2,921236	0,029796	0,083266	-4,39443
IFFO2	0,69869	6,932532	2,919554	0,029857	0,083422	-4,39667
PTDSS1	0,424705	7,829435	2,918786	0,029885	0,083484	-4,3977
MYO6	0,738639	6,221169	2,917524	0,029931	0,083585	-4,39938
GTF3C5	0,521032	5,48247	2,917477	0,029933	0,083585	-4,39944
UTP14C	0,666411	6,938465	2,916051	0,029986	0,083707	-4,40135
LIN7B	-2,37643	2,578189	-2,91596	0,029989	0,083707	-4,40147
UBE2L3	0,520746	7,302565	2,915513	0,030005	0,083728	-4,40207
EXOSC4	-2,92821	2,571415	-2,91544	0,030008	0,083728	-4,40216
ZNF736	0,809376	6,566379	2,914815	0,030031	0,083761	-4,403
FIBP	-2,05857	4,606392	-2,9148	0,030032	0,083761	-4,40302
MFAP1	0,441025	7,9202	2,914419	0,030046	0,083778	-4,40353
NPM3	0,890248	5,820679	2,914307	0,03005	0,083778	-4,40368
ERMN	1,943241	3,694929	2,913499	0,03008	0,083845	-4,40476
CEP104	0,428982	7,778329	2,912754	0,030107	0,083902	-4,40575
MBTPS1	0,454873	7,496341	2,912618	0,030112	0,083902	-4,40593
MRPS11	0,454824	5,127558	2,912246	0,030126	0,083924	-4,40643
RPS7P5	1,74294	2,066457	2,911791	0,030143	0,083954	-4,40704
C9	2,269118	1,467892	2,911122	0,030168	0,083975	-4,40793
MYO5B	2,269118	1,467892	2,911122	0,030168	0,083975	-4,40793
COL6A4P2	2,316289	3,201239	2,910979	0,030173	0,083975	-4,40812
R3HDM2	0,45725	9,28021	2,910949	0,030174	0,083975	-4,40816
PTPRC	-0,37709	12,02177	-2,91043	0,030193	0,084012	-4,40886
MS4A3	-0,94933	3,412593	-2,90949	0,030228	0,084093	-4,41011
ARHGEF40	-1,47153	4,74965	-2,90914	0,030241	0,084112	-4,41058
MYLPF	2,204903	1,964106	2,908043	0,030282	0,084181	-4,41204
SEC24C	0,57472	6,443292	2,907857	0,030289	0,084181	-4,41229
ZNF358	1,07522	4,878168	2,907827	0,03029	0,084181	-4,41233
TEX30	-2,18181	4,813376	-2,90775	0,030293	0,084181	-4,41243
PDIK1L	0,87507	5,923895	2,907638	0,030297	0,084181	-4,41258
HIST1H2BC	2,245655	2,758458	2,907356	0,030307	0,084181	-4,41296
PPP5C	-2,43944	2,85535	-2,90735	0,030308	0,084181	-4,41297
LTF	1,126391	3,629753	2,907144	0,030315	0,084186	-4,41324
FCRL6	-1,2992	4,485534	-2,90651	0,030339	0,084235	-4,41409
SLC46A3	-1,13765	5,189704	-2,9063	0,030347	0,08424	-4,41437
WDR91	-0,79742	5,84683	-2,90588	0,030362	0,084267	-4,41494
NAA30	0,48256	7,928565	2,905327	0,030383	0,084308	-4,41567
PITPNM3	2,622083	2,946672	2,904505	0,030414	0,084376	-4,41677

TOMM22	0,447864	7,897345	2,90306	0,030468	0,08451	-4,4187
MCOLN1	-3,01811	3,67832	-2,90146	0,030528	0,084653	-4,42084
USP20	0,901442	5,505481	2,901358	0,030532	0,084653	-4,42098
CPEB1	2,440643	1,994297	2,900891	0,030549	0,084685	-4,4216
PRKD2	0,590196	5,897516	2,898943	0,030622	0,084872	-4,4242
ARL4A	-2,99271	3,872784	-2,89828	0,030647	0,084924	-4,42509
H2AFV	-0,5073	8,679013	-2,8978	0,030665	0,084958	-4,42573
RFX7	0,583269	7,077067	2,896948	0,030698	0,08503	-4,42687
ZNF549	1,179573	4,278707	2,896033	0,030732	0,085103	-4,4281
ITGAV	-3,55505	4,487286	-2,89593	0,030736	0,085103	-4,42823
FBXO34	0,396804	7,235148	2,895648	0,030747	0,085116	-4,42861
NAALADL1	-2,54312	2,207344	-2,89533	0,030758	0,085132	-4,42903
CSRNP3	1,986453	2,383201	2,894747	0,030781	0,085177	-4,42981
POLR2A	-0,59865	8,381449	-2,89454	0,030788	0,085182	-4,43009
PHF14	0,528854	8,302576	2,893841	0,030815	0,085239	-4,43103
EGLN3	-2,46411	2,167838	-2,8934	0,030832	0,085268	-4,43161
DHX30	0,532137	6,599901	2,892636	0,030861	0,085332	-4,43264
CCNK	0,475591	7,843458	2,890242	0,030952	0,08556	-4,43584
GPBP1L1	0,405204	8,851591	2,890152	0,030955	0,08556	-4,43596
CHURC1	0,381804	8,673054	2,889839	0,030967	0,085576	-4,43638
KIDINS220	-0,53335	8,331204	-2,88968	0,030973	0,085576	-4,43659
MRPL32	0,475879	7,092959	2,888997	0,030999	0,085631	-4,43751
AZIN1	-0,39837	8,469702	-2,8888	0,031007	0,085633	-4,43777
PDCD11	0,474679	6,6538	2,888663	0,031012	0,085633	-4,43795
ARHGAP31	-4,22373	3,807684	-2,88801	0,031037	0,085683	-4,43883
MIPOL1	1,13751	3,720531	2,887863	0,031043	0,085683	-4,43902
PHGDH	0,599992	3,097435	2,887711	0,031048	0,085683	-4,43923
ANKRD16	-1,3023	0,984482	-2,88733	0,031063	0,08569	-4,43974
TNFSF15	-1,3023	0,984482	-2,88733	0,031063	0,08569	-4,43974
TNFRSF1B	-0,6541	8,767487	-2,88541	0,031137	0,085876	-4,44231
FDXACB1	-3,16282	2,81489	-2,88388	0,031195	0,086021	-4,44436
AIMP2	-2,61837	5,408921	-2,88263	0,031243	0,086136	-4,44602
SNURF	2,022959	3,263109	2,882424	0,031251	0,086142	-4,4463
ALKBH8	0,61194	6,693532	2,882052	0,031265	0,086164	-4,4468
MRPL27	-1,82187	5,117979	-2,88109	0,031302	0,08625	-4,44809
EBPL	0,618648	5,62751	2,880105	0,031341	0,086338	-4,44941
PISD	-0,54218	5,346159	-2,87898	0,031384	0,086441	-4,45091
C11orf58	0,404863	9,55597	2,878435	0,031405	0,086482	-4,45164
PDE6D	-1,19313	4,641802	-2,87819	0,031415	0,086491	-4,45197
FAM114A2	0,466465	7,133804	2,877216	0,031452	0,086578	-4,45327
SLC4A2	-1,75172	4,065811	-2,87661	0,031476	0,086626	-4,45408
CLN5	0,731192	7,562555	2,875906	0,031503	0,086684	-4,45503
C19orf38	-1,54522	5,028259	-2,87546	0,031521	0,086715	-4,45563
CRTC1	-1,0693	3,082601	-2,87521	0,03153	0,086725	-4,45596
DUS3L	-0,84065	3,646232	-2,87491	0,031542	0,08674	-4,45636
NOB1	0,568659	7,131564	2,874677	0,031551	0,086748	-4,45667
GALK2	0,716503	7,220073	2,873563	0,031594	0,086834	-4,45817
ETS1	0,353786	10,9959	2,873559	0,031594	0,086834	-4,45817
PCCB	-2,77995	2,497284	-2,87301	0,031616	0,086844	-4,4589
NFKB1	0,471477	8,856799	2,873011	0,031616	0,086844	-4,45891
PAQR3	-0,69412	5,090498	-2,87299	0,031617	0,086844	-4,45893
KDELR1	-0,45448	8,073934	-2,87225	0,031646	0,086907	-4,45993

L3MBTL1	0,98869	4,274295	2,872043	0,031654	0,086912	-4,4602
VKORC1	-1,83815	5,512724	-2,87093	0,031697	0,087006	-4,46169
THAP11	0,410163	7,629163	2,870853	0,0317	0,087006	-4,4618
BRD4	0,413321	10,13299	2,870625	0,031709	0,087013	-4,4621
PAPSS2	-2,75004	3,310807	-2,87027	0,031723	0,087035	-4,46258
MMP25	-3,10061	4,052902	-2,86993	0,031736	0,087054	-4,46303
COL16A1	2,130772	1,065386	2,868918	0,031776	0,087129	-4,46439
KRT8	2,130772	1,065386	2,868918	0,031776	0,087129	-4,46439
TDRD7	-0,5304	5,393685	-2,86841	0,031796	0,087165	-4,46507
PARP6	0,766307	5,757968	2,868122	0,031807	0,087165	-4,46546
CLU	0,631768	4,72549	2,868113	0,031807	0,087165	-4,46547
WDR70	0,433629	6,601556	2,867878	0,031817	0,087173	-4,46578
BCL7B	-1,10647	5,716352	-2,8676	0,031828	0,087187	-4,46616
FCER2	-2,42315	2,147362	-2,86634	0,031877	0,087305	-4,46785
HAX1	0,40457	7,492545	2,865497	0,03191	0,087362	-4,46897
RNPS1	0,515515	7,428159	2,865413	0,031914	0,087362	-4,46909
IQCH	1,440643	1,248642	2,865026	0,031929	0,087362	-4,46961
NRK	1,440643	1,248642	2,865026	0,031929	0,087362	-4,46961
KLHL13	1,440643	1,248642	2,865026	0,031929	0,087362	-4,46961
TAOK3	-0,35209	9,798649	-2,86472	0,031941	0,087374	-4,47001
CLCC1	-1,50315	5,697123	-2,86461	0,031945	0,087374	-4,47017
EVI2A	-0,51298	8,207507	-2,86364	0,031983	0,087461	-4,47146
KIF14	1,062726	3,393017	2,861771	0,032057	0,087646	-4,47397
ZCCHC18	0,411664	4,452426	2,86063	0,032103	0,087753	-4,4755
RRP12	-2,03318	2,480695	-2,86044	0,03211	0,087756	-4,47575
CCDC96	2,386143	2,46219	2,86003	0,032126	0,087784	-4,4763
PPARGC1A	1,602452	1,329547	2,859481	0,032148	0,087826	-4,47704
CFDP1	-0,47836	7,429138	-2,85884	0,032174	0,087834	-4,4779
APPBP2	0,436422	8,304425	2,858762	0,032177	0,087834	-4,478
ZNF610	2,434669	3,663951	2,858748	0,032177	0,087834	-4,47802
HCST	-0,44573	7,284499	-2,85863	0,032182	0,087834	-4,47817
DEGS1	-0,67676	7,206421	-2,85863	0,032182	0,087834	-4,47818
NOL6	-0,51966	4,302922	-2,85837	0,032192	0,087846	-4,47853
FAM184A	1,251651	4,705095	2,858152	0,032201	0,087852	-4,47882
FAM120AO	0,627096	7,805539	2,857622	0,032222	0,087892	-4,47953
EXOSC6	0,404832	8,626194	2,857269	0,032236	0,087895	-4,48001
TNIK	0,424602	8,19223	2,85719	0,032239	0,087895	-4,48011
AKAP3	3,340789	1,670395	2,857132	0,032242	0,087895	-4,48019
RBKS	1,955416	2,506029	2,855579	0,032303	0,088041	-4,48227
XBP1	-0,52024	8,017615	-2,85547	0,032308	0,088041	-4,48242
FAM86DP	-1,66667	1,166667	-2,8546	0,032343	0,088063	-4,48359
AFF2	-1,66667	0,833333	-2,8546	0,032343	0,088063	-4,48359
MYT1	1,666667	1,166667	2,854595	0,032343	0,088063	-4,48359
VTRNA2-1	1,666667	1,166667	2,854595	0,032343	0,088063	-4,48359
ZNF776	0,556584	6,764712	2,854493	0,032347	0,088063	-4,48373
BHLHB9	1,246789	3,828298	2,85372	0,032378	0,08813	-4,48476
METTL8	0,794429	6,27834	2,852511	0,032426	0,088234	-4,48639
LACTB2	-0,50866	6,26375	-2,85246	0,032428	0,088234	-4,48646
GIN1	0,711761	5,915129	2,851294	0,032475	0,08834	-4,48802
POLR2B	0,359002	9,316799	2,851137	0,032481	0,08834	-4,48823
PARD3B	2,402429	2,591189	2,851015	0,032486	0,08834	-4,48839
IDH3G	-2,00364	4,468779	-2,85047	0,032508	0,088368	-4,48913

CCHCR1	-1,53824	1,964106	-2,85045	0,032509	0,088368	-4,48915
TEP1	-0,85933	6,619722	-2,84971	0,032539	0,088432	-4,49015
RYK	-0,56065	6,890851	-2,84938	0,032552	0,088451	-4,49059
SLC25A38	0,732885	6,261614	2,84899	0,032568	0,088476	-4,49111
STX4	-0,48299	7,231493	-2,84837	0,032593	0,088528	-4,49195
SCN1B	2,614117	2,307058	2,848154	0,032601	0,088534	-4,49223
TOP1	0,490372	9,631035	2,847778	0,032616	0,088558	-4,49274
RBC1	0,476385	8,38036	2,847162	0,032641	0,088609	-4,49356
MAP2K4	0,40145	6,857687	2,845901	0,032692	0,08873	-4,49526
TINF2	-1,32017	6,251129	-2,84569	0,032701	0,088736	-4,49554
SLC2A13	-1,04885	5,548359	-2,8448	0,032737	0,088816	-4,49673
RHOB	-1,22905	5,641466	-2,84389	0,032774	0,088899	-4,49795
HEATR5A	-0,87745	5,898003	-2,8435	0,032789	0,088911	-4,49848
MRPS10	0,490017	7,109531	2,843475	0,032791	0,088911	-4,49851
ASB1	0,609518	6,377109	2,8432	0,032802	0,088924	-4,49888
PCYT1A	-0,54836	7,716396	-2,843	0,03281	0,08893	-4,49915
MEN1	0,531286	6,692844	2,842114	0,032846	0,08901	-4,50034
REC8	-1,08738	4,685427	-2,84142	0,032874	0,08907	-4,50127
PSMB6	-0,83663	7,401391	-2,84087	0,032896	0,089098	-4,50201
ITGA1	1,017451	5,542854	2,840849	0,032897	0,089098	-4,50204
KLHL24	0,435645	8,510733	2,839985	0,032932	0,089176	-4,5032
TRMU	0,961269	3,94474	2,839149	0,032967	0,089252	-4,50432
GNG5	-1,25391	5,67124	-2,83872	0,032984	0,089281	-4,5049
ZC3HAV1	0,389456	10,38233	2,83857	0,03299	0,089281	-4,5051
ACADM	0,442885	7,95625	2,837829	0,033021	0,089339	-4,50609
NFKBIE	-1,2035	5,319706	-2,83773	0,033025	0,089339	-4,50623
PAPOLG	0,390788	6,830378	2,837586	0,03303	0,089339	-4,50642
TFB1M	0,494617	5,760301	2,836939	0,033057	0,08938	-4,50729
TESK1	-2,21385	2,654876	-2,83691	0,033058	0,08938	-4,50733
TLE3	0,68005	7,785316	2,835636	0,03311	0,089504	-4,50904
PGM2L1	0,509216	6,67138	2,834636	0,033151	0,089597	-4,51038
MPV17L2	-2,4698	2,170683	-2,83422	0,033168	0,089626	-4,51094
VWA3B	1,622083	2,729337	2,833632	0,033193	0,089666	-4,51173
DMXL1	-0,3743	7,768805	-2,83356	0,033196	0,089666	-4,51183
CC2D1A	-2,2476	2,897778	-2,83307	0,033216	0,089702	-4,51248
PFKFB4	-2,75339	3,545962	-2,83286	0,033224	0,089709	-4,51277
GABRG3	1,830618	2,022618	2,832572	0,033236	0,08971	-4,51316
SGMS1	-0,35402	7,165137	-2,83244	0,033242	0,08971	-4,51334
TRIP6	-2,80143	2,508024	-2,83224	0,03325	0,08971	-4,5136
PCNA	-1,05498	6,868222	-2,83223	0,03325	0,08971	-4,51361
ZFAND3	0,433322	7,708095	2,831934	0,033262	0,089726	-4,51401
ANKRD11	0,412333	10,539	2,831343	0,033287	0,089775	-4,51481
NDFIP2	0,81904	4,700412	2,831175	0,033294	0,089776	-4,51503
PTPMT1	-0,92044	5,373479	-2,83048	0,033322	0,089836	-4,51596
MKNK2	-0,3779	8,47253	-2,83019	0,033335	0,089852	-4,51636
EDARADD	-1,69013	1,952374	-2,82822	0,033416	0,090047	-4,519
TRAM1	-0,42685	9,421944	-2,82813	0,03342	0,090047	-4,51912
TTC3	-0,46425	9,70428	-2,82625	0,033498	0,09024	-4,52165
GNG10	-0,93981	3,996343	-2,82547	0,03353	0,090311	-4,52271
ZNF260	0,651452	5,77401	2,825278	0,033538	0,090314	-4,52296
PWP1	0,361519	8,23419	2,824691	0,033562	0,090363	-4,52375
CDK5RAP2	0,639372	7,591896	2,824099	0,033587	0,090412	-4,52454

PCDH15	2,18144	2,285708	2,823444	0,033614	0,090468	-4,52542
BTBD19	1,479135	3,310983	2,822418	0,033657	0,090566	-4,5268
HIF3A	2,139284	2,176951	2,821782	0,033684	0,090619	-4,52766
NHSL2	0,582337	8,743875	2,821639	0,03369	0,090619	-4,52785
BCO2	1,064215	3,177653	2,821044	0,033715	0,090669	-4,52865
CNOT6L	0,372109	10,29148	2,820513	0,033737	0,090712	-4,52936
PMAIP1	0,476548	8,309561	2,820015	0,033758	0,09075	-4,53003
MFSD9	-2,26429	2,680095	-2,81915	0,033794	0,09083	-4,53119
DENR	0,380901	8,147093	2,818881	0,033805	0,090837	-4,53156
IQUB	2,620362	1,643514	2,81849	0,033822	0,090837	-4,53208
SPOCD1	2,620362	1,643514	2,81849	0,033822	0,090837	-4,53208
DEFA4	1,709761	1,854881	2,81848	0,033822	0,090837	-4,5321
IGIP	0,595025	6,019332	2,817193	0,033876	0,090965	-4,53383
ZNF274	0,468688	6,287654	2,816962	0,033886	0,090974	-4,53414
VDAC2	0,394958	7,691119	2,815955	0,033928	0,09107	-4,53549
RBM41	0,598771	7,54307	2,815623	0,033942	0,09109	-4,53594
MPZL1	-0,90761	5,307031	-2,81527	0,033957	0,091113	-4,53642
ALS2	-1,05851	5,141007	-2,81485	0,033975	0,091143	-4,53698
HSPA1B	0,949661	6,896013	2,814052	0,034009	0,091216	-4,53805
DKC1	0,427487	8,020114	2,813586	0,034028	0,091252	-4,53868
ZNF683	-0,79365	5,455885	-2,81306	0,03405	0,091294	-4,53938
DIDO1	0,515925	7,873709	2,811964	0,034097	0,091393	-4,54086
PITPNM2	-1,9174	2,399345	-2,81173	0,034107	0,091393	-4,54118
DTL	1,483737	2,741869	2,811627	0,034111	0,091393	-4,54132
DNMT3A	0,439866	6,737307	2,811575	0,034113	0,091393	-4,54139
KIAA1328	-0,80232	4,060254	-2,81034	0,034166	0,091516	-4,54305
TRANK1	-0,62272	7,57801	-2,81004	0,034178	0,091521	-4,54345
SMG5	-2,67389	3,444255	-2,81	0,03418	0,091521	-4,54351
TCAP	1,848107	2,893017	2,809297	0,03421	0,091583	-4,54445
DEFA3	2,410318	3,035777	2,808842	0,034229	0,091617	-4,54506
CRLF3	0,492664	7,82991	2,80869	0,034236	0,091617	-4,54527
CARS	0,444224	8,039333	2,807869	0,034271	0,091693	-4,54637
CNOT8	0,357066	7,839943	2,807687	0,034278	0,091697	-4,54662
SP140L	0,337592	7,991023	2,807005	0,034308	0,091757	-4,54753
THAP3	0,88454	4,709506	2,806505	0,034329	0,091797	-4,54821
VPS29	-0,4542	7,986935	-2,80565	0,034365	0,091877	-4,54935
NARS	-0,37454	9,160561	-2,80529	0,034381	0,091901	-4,54985
RFC2	-2,5026	2,251299	-2,80468	0,034407	0,091953	-4,55066
PIK3AP1	-0,39699	7,539471	-2,8045	0,034414	0,091956	-4,5509
ZNF747	0,867188	3,759354	2,803899	0,03444	0,092008	-4,55172
DGAT1	-2,45193	3,107251	-2,80357	0,034454	0,092017	-4,55215
FHL3	-2,61677	3,31584	-2,80352	0,034457	0,092017	-4,55223
STOM	-0,63951	7,701395	-2,80272	0,034491	0,09209	-4,5533
IRF4	0,565467	6,954596	2,80174	0,034533	0,092185	-4,55462
NCKAP1L	-0,37297	9,229158	-2,8007	0,034578	0,092288	-4,55603
HOMER2	1,448436	4,504168	2,799882	0,034613	0,092364	-4,55712
RSPH3	-1,79773	4,339505	-2,79957	0,034626	0,092382	-4,55754
ATXN3	-0,53148	7,156362	-2,7987	0,034664	0,09246	-4,55872
LCLAT1	0,401034	6,307851	2,798585	0,034669	0,09246	-4,55887
GINS2	2,754814	2,044074	2,798187	0,034686	0,092489	-4,55941
FMNL3	-0,70136	6,061635	-2,79799	0,034694	0,092493	-4,55967
CHODL	2,043094	1,549868	2,797803	0,034702	0,092496	-4,55992

SIN3A	0,399699	7,951759	2,797672	0,034708	0,092496	-4,5601
GTPBP2	-0,82518	6,028471	-2,79608	0,034777	0,092662	-4,56225
MGST3	-1,43305	7,407606	-2,79579	0,034789	0,092677	-4,56263
TAF9B	0,371918	5,418426	2,795014	0,034823	0,09275	-4,56368
BTBD9	-0,51579	4,741634	-2,7948	0,034832	0,092757	-4,56397
CD69	-0,49224	7,894787	-2,79429	0,034854	0,092798	-4,56465
KBTBD11	-2,4267	2,149136	-2,79412	0,034862	0,0928	-4,56488
MCL1	-0,34952	10,29221	-2,79346	0,03489	0,092859	-4,56578
MTFR1	-3,05581	2,761383	-2,79326	0,034899	0,092865	-4,56605
KIAA1671	0,717582	5,144344	2,79307	0,034907	0,092869	-4,5663
USP37	0,455823	6,816698	2,791922	0,034957	0,092984	-4,56785
ZNF33B	0,490086	7,173101	2,790417	0,035023	0,093141	-4,56987
TMEM189	-0,79343	6,092606	-2,78995	0,035043	0,093178	-4,5705
UCHL1	-1,46411	1,593707	-2,78945	0,035065	0,093218	-4,57118
HERC3	-0,39361	7,039284	-2,78854	0,035105	0,093307	-4,5724
EID1	0,388774	9,57139	2,788271	0,035116	0,09332	-4,57277
PRPF6	0,396924	8,616216	2,786435	0,035197	0,09351	-4,57524
SEN2	0,461845	7,172303	2,786197	0,035207	0,09351	-4,57556
GBP4	-0,45425	9,818796	-2,78619	0,035208	0,09351	-4,57557
PER3	-1,0217	3,574947	-2,78582	0,035224	0,093536	-4,57607
HERC2P9	-0,95147	3,078189	-2,78524	0,035249	0,093585	-4,57685
MYOZ3	1,760429	1,936856	2,785042	0,035258	0,093591	-4,57712
ARFGAP1	0,587543	5,450107	2,784248	0,035293	0,093659	-4,57819
FUBP3	0,447212	7,61196	2,784152	0,035297	0,093659	-4,57832
ZNF414	-1,05987	4,180363	-2,78357	0,035323	0,09371	-4,5791
ALOX5	-1,02373	5,051707	-2,78222	0,035382	0,09385	-4,58093
GMNN	-2,82647	3,754024	-2,78169	0,035406	0,093894	-4,58164
UBA7	0,555855	5,658796	2,780885	0,035441	0,093971	-4,58272
ACVR1	-1,98166	4,567934	-2,78044	0,035461	0,094006	-4,58332
MUT	0,62636	6,89984	2,780103	0,035476	0,094024	-4,58378
PIK3CA	0,519126	8,425266	2,77992	0,035484	0,094024	-4,58402
BRD3	0,402929	8,301771	2,779717	0,035493	0,094024	-4,5843
FNDC3A	-0,59765	7,632009	-2,77968	0,035494	0,094024	-4,58434
IPMK	-0,49501	7,35909	-2,77925	0,035513	0,094057	-4,58493
CHD2	0,443818	10,0408	2,779007	0,035524	0,094068	-4,58525
PDCL	-0,60035	6,171124	-2,7787	0,035538	0,094086	-4,58567
PFKL	-1,05388	6,280263	-2,77837	0,035552	0,094108	-4,58612
RICTOR	0,447348	8,924136	2,777546	0,035589	0,094186	-4,58722
PEBP1	0,354821	9,838877	2,777186	0,035605	0,094205	-4,58771
TDRKH	-3,0046	2,735781	-2,77709	0,035609	0,094205	-4,58784
HIRA	0,672358	3,907594	2,776119	0,035652	0,094301	-4,58915
PRPF19	0,54937	7,159342	2,775862	0,035664	0,094314	-4,58949
SCAMP3	0,521844	5,637886	2,775634	0,035674	0,094323	-4,5898
CCDC22	-1,01633	4,604071	-2,77548	0,035681	0,094323	-4,59001
IL27RA	-0,73622	7,124816	-2,77513	0,035696	0,094341	-4,59048
MFAP3L	1,407464	2,339362	2,775029	0,035701	0,094341	-4,59062
NUDC	0,626788	5,866689	2,773755	0,035758	0,094473	-4,59234
TPM3	-0,61081	9,012972	-2,77353	0,035768	0,094482	-4,59264
POT1	0,775692	5,549128	2,773036	0,03579	0,094523	-4,59331
ACTL6A	-0,73439	6,218886	-2,7724	0,035818	0,09458	-4,59416
GRAMD1A	0,58752	6,818897	2,771738	0,035848	0,094641	-4,59506
WDR75	0,423731	6,885757	2,771404	0,035863	0,094656	-4,59551

BAX	0,619363	5,605263	2,771308	0,035867	0,094656	-4,59564
FKBPL	-1,57899	1,984482	-2,77093	0,035884	0,094683	-4,59614
IL32	0,532116	7,157731	2,770163	0,035918	0,094756	-4,59718
ADAM10	-0,52539	8,840617	-2,76969	0,035939	0,094794	-4,59782
WDR63	1,30987	3,559684	2,768489	0,035993	0,094919	-4,59944
MED27	0,937761	6,967998	2,768169	0,036008	0,094939	-4,59987
PLXNA3	-0,82746	3,940171	-2,7679	0,03602	0,094954	-4,60024
SLC38A2	-0,48931	8,950356	-2,76735	0,036045	0,094973	-4,60098
PPP2R5A	0,355629	8,815521	2,767326	0,036046	0,094973	-4,60101
MFSD11	0,662476	6,467232	2,767287	0,036047	0,094973	-4,60106
SOCS2	-2,50922	3,247037	-2,76683	0,036068	0,094986	-4,60168
MXI1	-0,82588	7,944883	-2,76675	0,036071	0,094986	-4,60178
MSS51	-2,15178	2,409221	-2,76672	0,036073	0,094986	-4,60182
TBCC	0,662961	7,358021	2,765953	0,036107	0,09506	-4,60286
OR5AS1	2,699636	2,544806	2,765668	0,03612	0,095076	-4,60325
OAS1	-1,73447	5,57051	-2,76518	0,036142	0,095116	-4,6039
OPRM1	2,130772	3,367683	2,764779	0,03616	0,095146	-4,60445
ZNF202	1,481685	4,748067	2,764338	0,03618	0,095181	-4,60504
IRF9	0,624228	3,906992	2,763718	0,036208	0,095237	-4,60588
RIMS3	-1,84948	2,032049	-2,76276	0,036251	0,095333	-4,60717
ZBTB45	-1,74536	3,7293	-2,76204	0,036284	0,095342	-4,60814
REL	0,441103	8,630054	2,761874	0,036292	0,095342	-4,60837
TNFSF9	-1,38998	1,028321	-2,7618	0,036295	0,095342	-4,60847
TRIM3	-1,38998	1,028321	-2,7618	0,036295	0,095342	-4,60847
CXorf40B	-1,38998	1,028321	-2,7618	0,036295	0,095342	-4,60847
SKA3	-1,38998	1,556642	-2,7618	0,036295	0,095342	-4,60847
CSMD1	2,440643	1,553655	2,76165	0,036302	0,095342	-4,60867
TRIM9	1,460274	3,032434	2,761314	0,036317	0,095364	-4,60912
RDH10	0,750262	5,396768	2,760851	0,036338	0,095401	-4,60975
TRAP1	0,581922	6,263574	2,760052	0,036374	0,095479	-4,61083
NUP205	0,415851	7,217515	2,759232	0,036412	0,095542	-4,61194
ADAM22	-0,88266	3,04378	-2,75923	0,036412	0,095542	-4,61194
SLC37A3	0,480119	6,85905	2,759073	0,036419	0,095542	-4,61215
RNF44	0,457024	9,279156	2,758712	0,036435	0,09556	-4,61264
DDX18	0,354263	9,659437	2,758633	0,036439	0,09556	-4,61274
ZNF578	-0,80501	2,37147	-2,75642	0,03654	0,095807	-4,61574
HELQ	0,505399	6,108675	2,756211	0,036549	0,095814	-4,61602
C16orf70	-0,73221	5,207454	-2,75558	0,036578	0,095854	-4,61686
HINT3	-0,5603	6,174776	-2,75557	0,036579	0,095854	-4,61687
ZBTB17	-0,85634	4,47872	-2,75479	0,036615	0,095931	-4,61794
RIOK1	0,460387	7,07267	2,753739	0,036663	0,096028	-4,61935
ZFAND2B	-1,59396	5,013547	-2,75368	0,036665	0,096028	-4,61943
CPEB3	-1,185	5,343287	-2,75269	0,036711	0,096129	-4,62077
SLC24A4	-1,53824	1,769118	-2,75186	0,036749	0,096212	-4,6219
THADA	0,546698	6,579408	2,751267	0,036776	0,096265	-4,62269
MIIP	-2,93017	3,841513	-2,75109	0,036784	0,096269	-4,62294
SLC26A11	-0,54998	6,89592	-2,75064	0,036805	0,096292	-4,62355
FAM53C	-0,50423	6,303722	-2,7506	0,036807	0,096292	-4,62359
ACTR5	-1,01567	4,11243	-2,75031	0,03682	0,096309	-4,62398
CNOT10	0,373129	6,041484	2,749436	0,03686	0,096396	-4,62517
HRK	0,772211	3,750358	2,749201	0,036871	0,096407	-4,62548
PHF3	0,399859	10,14465	2,748812	0,036889	0,096432	-4,62601

MAGI2-AS3	0,925869	2,701016	2,748693	0,036895	0,096432	-4,62617
INTS3	0,701142	5,425339	2,748476	0,036905	0,096441	-4,62646
HNRNPM	0,355266	10,11631	2,748051	0,036924	0,096462	-4,62704
DCBLD2	-2,03318	2,480695	-2,748	0,036927	0,096462	-4,6271
HDDC3	0,493232	5,629017	2,747489	0,03695	0,096506	-4,6278
TRHDE	1,307611	3,063412	2,747312	0,036958	0,09651	-4,62804
ATG4D	0,737168	4,722487	2,747057	0,03697	0,096523	-4,62838
TTC28	1,935785	3,293652	2,746706	0,036987	0,096547	-4,62885
CD53	-0,43003	9,506965	-2,74539	0,037047	0,096688	-4,63063
SPDYA	2,023463	2,647362	2,745052	0,037063	0,096712	-4,63109
PUS7L	-0,52978	7,68566	-2,74486	0,037072	0,096717	-4,63135
IREB2	0,40412	9,44378	2,74439	0,037094	0,096756	-4,63198
ATP6V0E2	0,81369	6,695745	2,744241	0,037101	0,096756	-4,63219
DICER1-AS1	1,05281	3,569499	2,743496	0,037135	0,096811	-4,63319
LSS	-2,25518	2,958207	-2,74349	0,037135	0,096811	-4,6332
TMEM30B	1,215686	4,54577	2,743009	0,037158	0,096836	-4,63385
TYW1B	-2,11031	2,495796	-2,74299	0,037159	0,096836	-4,63387
PCBP4	-2,26666	2,84309	-2,74273	0,037171	0,096847	-4,63422
ARPP19	0,332528	8,417221	2,74252	0,037181	0,096847	-4,63451
DCAF7	0,367543	9,430926	2,742462	0,037183	0,096847	-4,63459
B4GALT7	-0,92887	4,29505	-2,74198	0,037206	0,096888	-4,63525
AKTIP	0,64604	5,346952	2,741338	0,037236	0,096948	-4,63611
THYN1	0,467772	7,140197	2,740893	0,037257	0,096981	-4,63671
AGER	1,005718	5,487955	2,740571	0,037272	0,096981	-4,63715
TRNAU1AP	0,541532	6,034154	2,740507	0,037275	0,096981	-4,63723
GRWD1	0,484708	5,495234	2,740472	0,037276	0,096981	-4,63728
ZNF569	0,821219	5,313637	2,740264	0,037286	0,096989	-4,63756
FMO1	1,723308	1,968964	2,739022	0,037344	0,097116	-4,63924
C1orf162	-0,52017	5,371695	-2,73892	0,037349	0,097116	-4,63937
LTBP3	0,771121	6,162232	2,738136	0,037385	0,097181	-4,64044
IL18RAP	1,101996	5,576881	2,738042	0,03739	0,097181	-4,64056
PIGS	-0,53823	6,728502	-2,73794	0,037394	0,097181	-4,6407
KANK4	2,705929	2,409606	2,73711	0,037433	0,097265	-4,64182
EFNA1	-2,39743	2,198715	-2,73681	0,037448	0,097284	-4,64223
OSGIN2	-0,55532	7,009399	-2,73641	0,037466	0,097315	-4,64277
CCDC25	0,356491	8,118838	2,735961	0,037487	0,097351	-4,64338
ALG3	-1,13374	4,440584	-2,73517	0,037524	0,09743	-4,64444
ACIN1	-0,39641	8,390485	-2,73498	0,037533	0,097435	-4,6447
MIS18BP1	-0,41564	8,374078	-2,73414	0,037573	0,09752	-4,64584
QRICH1	0,445451	6,862348	2,73287	0,037633	0,097658	-4,64756
TMEM68	0,397057	5,92987	2,731701	0,037688	0,097783	-4,64914
PLA2G15	-2,25163	2,956432	-2,73135	0,037705	0,097808	-4,64962
C6orf226	0,671898	4,99665	2,731062	0,037718	0,097825	-4,65
TBC1D8B	-0,82848	3,352165	-2,72999	0,037769	0,097926	-4,65146
ZNF277	0,532639	6,248199	2,729885	0,037774	0,097926	-4,6516
ALDH1B1	-1,96896	1,758458	-2,7297	0,037783	0,097926	-4,65185
ZBTB4	0,405705	8,296569	2,729658	0,037785	0,097926	-4,6519
TNFRSF12A	-1,72331	0,861654	-2,72911	0,03781	0,097975	-4,65264
SOX5	1,058506	3,689853	2,727581	0,037883	0,098145	-4,65471
MSH6	0,363281	7,937266	2,727109	0,037906	0,098185	-4,65535
CASZ1	0,6603	5,294868	2,726403	0,037939	0,098254	-4,65631
IL3RA	-1,34288	6,421688	-2,72576	0,03797	0,098316	-4,65718

AGBL1	2,34284	3,002038	2,725021	0,038005	0,098388	-4,65817
ZDHC16	-2,36531	3,063939	-2,72427	0,038041	0,098463	-4,65919
LCMT1	0,387072	5,661384	2,724042	0,038052	0,098473	-4,6595
TANC2	-1,00804	5,637378	-2,72365	0,03807	0,098503	-4,66003
NSF	-0,57368	7,042604	-2,7234	0,038082	0,098516	-4,66036
AGAP2	0,414484	6,580533	2,722371	0,038131	0,098626	-4,66176
TRIM41	0,608351	5,967085	2,721053	0,038195	0,098771	-4,66355
SIDT1	0,7637	4,421281	2,720413	0,038225	0,098832	-4,66441
CENPP	-1,94933	2,415309	-2,71989	0,038251	0,098846	-4,66513
ZNF664	0,499088	7,065421	2,719885	0,038251	0,098846	-4,66513
RPL39L	-0,95502	3,803272	-2,71986	0,038252	0,098846	-4,66515
ZNF16	0,64235	4,455424	2,719422	0,038273	0,098883	-4,66575
SPCS1	0,428791	8,434237	2,719272	0,03828	0,098883	-4,66595
KDM2B	-0,38667	8,234633	-2,719	0,038293	0,098899	-4,66632
CYTH3	0,543119	6,323165	2,717589	0,038361	0,099036	-4,66823
WWP1	0,380869	8,980509	2,717442	0,038368	0,099036	-4,66843
ZNF611	0,45876	6,675118	2,717368	0,038372	0,099036	-4,66853
CA8	-2,26509	2,963165	-2,71723	0,038378	0,099036	-4,66872
GABBR1	-2,12544	3,786026	-2,71717	0,038381	0,099036	-4,6688
PLA2G16	-0,49989	6,474693	-2,7159	0,038442	0,099176	-4,67052
CYB5A	-0,9244	5,421037	-2,71568	0,038453	0,099186	-4,67082
RAB3B	1,87157	1,797439	2,715319	0,03847	0,099209	-4,67131
COMMD9	-1,14713	4,970995	-2,7152	0,038476	0,099209	-4,67147
MAGED1	1,054395	6,046671	2,71461	0,038505	0,099264	-4,67227
PIPOX	1,797439	2,093707	2,714341	0,038518	0,099279	-4,67263
ABCF2	0,502611	5,663534	2,71244	0,03861	0,099483	-4,6752
RPS6KA4	-2,39283	3,132199	-2,71242	0,038611	0,099483	-4,67524
SOX11	2,002221	3,586073	2,711349	0,038663	0,099587	-4,67668
CSPP1	0,608049	7,553865	2,711296	0,038665	0,099587	-4,67675
KLRC4-KLR	1,433723	2,847634	2,710999	0,03868	0,099589	-4,67716
PCA3	1,773976	1,220321	2,710989	0,03868	0,099589	-4,67717
ATPAF2	-1,4126	3,813611	-2,71062	0,038698	0,099617	-4,67767
SF3B3	0,608309	7,360459	2,709092	0,038773	0,099791	-4,67974
USP28	-0,86165	6,946539	-2,70885	0,038785	0,099803	-4,68007
RPP40	-1,10991	3,70536	-2,70808	0,038822	0,099881	-4,6811
FKBP3	0,401927	8,993981	2,707727	0,038839	0,099907	-4,68159
SPAG17	1,672751	2,421338	2,70753	0,038849	0,099914	-4,68185
HPS1	-0,48229	6,849687	-2,7073	0,03886	0,099925	-4,68217
FXDY5	0,557255	8,074913	2,705116	0,038967	0,100181	-4,68512
TMEM63B	-2,98376	3,932523	-2,70413	0,039015	0,100287	-4,68646
CRYZL1	0,424515	6,64215	2,703329	0,039054	0,10037	-4,68754
NEK7	0,403374	8,073549	2,702957	0,039073	0,100398	-4,68805
CTDSP1	-0,4135	7,673608	-2,70254	0,039093	0,100433	-4,68862
MAGEH1	0,72647	6,313769	2,701844	0,039127	0,100487	-4,68956
UTP18	0,430551	7,685529	2,701823	0,039128	0,100487	-4,68958
FCHO1	-1,54106	3,573659	-2,70165	0,039137	0,100491	-4,68982
DGKQ	-0,55008	5,84925	-2,70112	0,039163	0,10054	-4,69054
EXOC2	0,434039	6,934005	2,700383	0,039199	0,100614	-4,69153
PRKAB2	-0,64927	6,212993	-2,69998	0,039219	0,100647	-4,69208
ATXN2	0,422321	8,067643	2,699426	0,039247	0,100686	-4,69283
GGCX	-3,04223	4,123569	-2,69939	0,039248	0,100686	-4,69289
TIGD3	1,888741	3,277704	2,698424	0,039296	0,100789	-4,69419

BTN2A3P	1,505136	3,865851	2,697808	0,039326	0,100849	-4,69502
FNBP1	0,335249	10,43351	2,696899	0,039372	0,100946	-4,69626
IARS	0,70008	6,821316	2,696074	0,039412	0,101033	-4,69738
HAPLN3	0,814674	6,565677	2,694421	0,039494	0,101201	-4,69962
HNRNPR	0,365567	9,860638	2,694404	0,039495	0,101201	-4,69964
ZMAT1	0,774824	8,31039	2,694246	0,039503	0,101201	-4,69985
LRRC8D	0,366844	8,052394	2,693917	0,039519	0,101201	-4,7003
CCDC88B	0,744823	5,717803	2,693911	0,03952	0,101201	-4,70031
CKS1B	0,736152	6,062015	2,693888	0,039521	0,101201	-4,70034
BCL2L13	0,440986	7,778522	2,693121	0,039559	0,10128	-4,70138
BLM	0,856803	4,746588	2,691582	0,039636	0,101458	-4,70346
RFTN1	0,448002	8,570979	2,691244	0,039653	0,101483	-4,70392
BDH2	-1,84948	2,472692	-2,68987	0,039721	0,101641	-4,70579
GDPD1	-1,97182	2,58836	-2,68923	0,039753	0,101701	-4,70665
CINP	-1,40812	3,873327	-2,68899	0,039765	0,101701	-4,70697
TRIM39	0,47279	5,793206	2,688964	0,039767	0,101701	-4,70701
ZCCHC8	0,363235	8,269237	2,688758	0,039777	0,101709	-4,70729
HNRNPH2	0,479856	8,822262	2,688016	0,039814	0,101786	-4,7083
RTTN	0,917966	4,863756	2,686603	0,039885	0,101949	-4,71021
SNTA1	-1,81099	1,679469	-2,68633	0,039899	0,101965	-4,71058
SNRPG	0,393142	6,876459	2,684833	0,039974	0,102139	-4,71261
TTC14	-0,46165	9,547068	-2,68425	0,040003	0,102195	-4,7134
MIR186	-1,94176	2,411522	-2,68274	0,04008	0,102363	-4,71546
CHCHD7	-0,48769	6,674585	-2,68267	0,040083	0,102363	-4,71555
CACNB1	-2,60331	2,408964	-2,68184	0,040125	0,102436	-4,71667
TMEM168	0,51341	6,592841	2,681811	0,040127	0,102436	-4,71671
CAPZA1	-0,33028	9,777227	-2,68143	0,040146	0,102467	-4,71723
CCDC97	-1,23699	5,408361	-2,68014	0,040211	0,102615	-4,71898
COQ5	0,48303	6,513664	2,679824	0,040227	0,102637	-4,71941
MCCC1	0,478987	5,663898	2,679501	0,040244	0,102661	-4,71985
LAS1L	0,622855	5,842655	2,678428	0,040298	0,102781	-4,7213
HLA-H	-1,67115	2,999528	-2,67575	0,040434	0,10311	-4,72493
CNP	-0,49804	6,192691	-2,67444	0,040501	0,103253	-4,72671
LRRC2	1,343249	2,640588	2,674364	0,040505	0,103253	-4,72682
ERF	0,449523	5,78691	2,673694	0,040539	0,103322	-4,72773
PITPNM1	-2,26045	2,904203	-2,67334	0,040557	0,103344	-4,7282
TNKS2	0,355084	8,078564	2,673237	0,040563	0,103344	-4,72835
C1orf50	0,585127	4,751	2,673023	0,040574	0,103353	-4,72864
GTF2H5	-0,34217	7,330219	-2,67275	0,040587	0,10337	-4,729
CDC25B	-0,84729	7,276517	-2,67154	0,040649	0,103509	-4,73065
KAT2B	-0,88428	7,194933	-2,67098	0,040678	0,103564	-4,73141
CREB1	0,346536	9,172797	2,669198	0,04077	0,103779	-4,73383
SPATA6	-2,08768	1,817815	-2,66905	0,040778	0,10378	-4,73403
PPP1R8	0,459803	7,414953	2,667244	0,040871	0,103989	-4,73648
PTEN	0,356895	8,460982	2,667164	0,040875	0,103989	-4,73659
SPAG5	1,760429	2,603523	2,666657	0,040901	0,104037	-4,73728
SNORD104	1,910817	3,419514	2,665228	0,040975	0,104206	-4,73922
TNFSF14	0,602637	5,630221	2,66398	0,041039	0,104351	-4,74091
LDLR	-1,90895	5,734215	-2,66343	0,041068	0,104405	-4,74166
PPM1A	0,40983	7,625408	2,661483	0,041169	0,104619	-4,7443
RUNX2	-0,75332	5,442809	-2,66147	0,04117	0,104619	-4,74432
FPGS	-2,64462	3,53693	-2,66138	0,041174	0,104619	-4,74444

JKAMP	-0,72507	7,236269	-2,66032	0,041229	0,10474	-4,74588
HNRNPAO	0,360615	9,403527	2,660016	0,041245	0,104762	-4,74629
MED28	0,399312	8,314709	2,65877	0,04131	0,104908	-4,74799
MAST3	-0,71256	4,001824	-2,65838	0,04133	0,104941	-4,74851
MIOS	-0,37046	5,271028	-2,65807	0,041347	0,104964	-4,74894
RRP15	0,561604	7,345864	2,657527	0,041375	0,105016	-4,74967
ZKSCAN4	0,578989	4,301552	2,656311	0,041439	0,105159	-4,75132
PLCB1	0,744331	5,850288	2,655564	0,041478	0,105239	-4,75234
F2R	0,565679	6,896459	2,654896	0,041513	0,105309	-4,75325
METRNL	-1,46411	1,065386	-2,65427	0,041546	0,105375	-4,7541
ALMS1	-0,65785	5,933521	-2,65359	0,041581	0,105445	-4,75502
NAB2	-1,09236	4,807724	-2,65147	0,041693	0,105674	-4,7579
TBCA	0,362507	9,665412	2,651301	0,041702	0,105674	-4,75813
MAP3K7	0,377231	8,29715	2,651221	0,041706	0,105674	-4,75824
TGFBR2	0,357721	8,638128	2,651208	0,041707	0,105674	-4,75826
HMG20B	-2,01794	4,575783	-2,65108	0,041714	0,105674	-4,75843
UAP1	-2,25911	4,66533	-2,65102	0,041716	0,105674	-4,75851
NFATC1	0,367066	7,340699	2,648889	0,041829	0,105941	-4,76141
LSAMP	1,352965	3,419422	2,648572	0,041846	0,105965	-4,76184
BRWD1	0,436517	8,975189	2,647931	0,04188	0,106031	-4,76271
USP8	0,382135	9,287812	2,647318	0,041912	0,106095	-4,76354
PARD6G	-2	1,773976	-2,64707	0,041926	0,106109	-4,76388
SNRPA	0,450731	6,495686	2,645805	0,041993	0,10626	-4,7656
TNFRSF13B	1,373876	4,758378	2,643444	0,042118	0,106559	-4,76881
ATP13A3	-0,5529	8,05625	-2,64276	0,042155	0,106631	-4,76973
GPT2	1,597416	3,101005	2,641224	0,042237	0,10682	-4,77183
EHHADH	1,194988	3,0616	2,640594	0,042271	0,106886	-4,77268
ZMYM5	0,580756	6,554065	2,640243	0,042289	0,106893	-4,77316
ZDHHC17	0,413594	7,436289	2,640239	0,04229	0,106893	-4,77316
P2RY11	-0,51782	5,149495	-2,64012	0,042296	0,106893	-4,77332
DGKA	0,524658	7,322946	2,638379	0,042389	0,10711	-4,77569
ALG1	-2,63724	3,587737	-2,63644	0,042493	0,107354	-4,77833
INO80	0,372299	7,67907	2,635935	0,042521	0,107391	-4,77901
SNHG3	0,626056	6,193456	2,635883	0,042523	0,107391	-4,77909
SLC4A1	2,830618	2,351094	2,634185	0,042615	0,107603	-4,78139
CLASP2	-0,38084	7,356545	-2,63182	0,042743	0,107907	-4,78462
TMEM184E	0,485374	6,223575	2,631537	0,042758	0,107918	-4,785
CMPK1	0,382701	9,017841	2,631456	0,042762	0,107918	-4,78511
TMEM39B	-2,54264	3,440584	-2,62988	0,042848	0,108108	-4,78725
CENPN	-2,44278	2,157177	-2,62978	0,042853	0,108108	-4,78738
SLK	-0,37259	8,737689	-2,62942	0,042873	0,108129	-4,78787
CMPK2	-1,44885	5,701582	-2,62935	0,042877	0,108129	-4,78797
KCTD17	-2,68728	3,612761	-2,62859	0,042918	0,108214	-4,789
FBF1	0,857822	3,22635	2,628216	0,042938	0,108246	-4,78951
RIPK1	-0,59512	6,795054	-2,62768	0,042968	0,1083	-4,79024
KCTD20	-0,45618	7,05048	-2,62662	0,043025	0,108411	-4,79168
RNF165	1,964995	4,641591	2,626593	0,043027	0,108411	-4,79172
TAF1	0,33834	8,608599	2,62642	0,043036	0,108415	-4,79196
DDX43	-1,23063	3,622769	-2,6222	0,043267	0,108977	-4,7977
ZNF280C	-2,58094	2,397778	-2,62136	0,043313	0,109074	-4,79884
KDM4B	0,42243	6,971866	2,620867	0,04334	0,109114	-4,79951
ANKRD13C	0,613067	6,615957	2,620793	0,043344	0,109114	-4,79961

SIT1	0,452843	6,656098	2,619849	0,043396	0,109214	-4,8009
SH2D3C	0,371509	5,539974	2,619789	0,0434	0,109214	-4,80098
ATXN10	0,360471	7,73126	2,619629	0,043408	0,109216	-4,80119
TRIM33	0,346935	9,007586	2,618813	0,043453	0,10931	-4,8023
C1orf21	0,34708	7,7353	2,617675	0,043516	0,109449	-4,80385
BLOC1S1	-2,17754	4,879724	-2,61656	0,043578	0,109584	-4,80537
LSM10	-0,64584	6,116345	-2,61602	0,043607	0,109639	-4,8061
SLC35E3	-0,38525	7,18838	-2,6158	0,04362	0,10965	-4,8064
NOP14-AS1	1,670547	4,169545	2,615206	0,043653	0,109714	-4,80721
CNIH4	-0,38012	7,384981	-2,61421	0,043708	0,109833	-4,80856
RNLS	-1,21462	1,468964	-2,61346	0,04375	0,109906	-4,80959
DCK	0,411317	7,53531	2,613248	0,043761	0,109906	-4,80988
LANCL2	0,619897	5,01279	2,613023	0,043774	0,109906	-4,81018
NACC1	-0,68965	4,667233	-2,61287	0,043782	0,109906	-4,81039
MAP3K10	-2,50994	2,36228	-2,61276	0,043789	0,109906	-4,81055
IFNAR1	-0,44851	7,658326	-2,61271	0,043791	0,109906	-4,81062
FOXRED1	0,920834	3,452843	2,612704	0,043792	0,109906	-4,81062
SF3B4	0,49524	5,564715	2,611504	0,043858	0,110042	-4,81225
AMY2B	1,027672	5,402577	2,611452	0,043861	0,110042	-4,81232
LRCH1	0,569658	7,046127	2,610906	0,043892	0,110099	-4,81307
MAP4K5	0,484698	7,12839	2,610022	0,043941	0,110169	-4,81427
WDR59	0,437582	6,695555	2,60991	0,043947	0,110169	-4,81442
ST3GAL3	-1,22817	3,549868	-2,6099	0,043947	0,110169	-4,81443
ZNF264	0,448918	7,789051	2,609845	0,043951	0,110169	-4,81451
RC3H2	0,379302	8,372028	2,60949	0,043971	0,110199	-4,81499
IMMT	-0,5756	7,460905	-2,60884	0,044007	0,110266	-4,81587
MYLIP	0,404615	7,619749	2,608733	0,044013	0,110266	-4,81602
GOLT1B	-0,38944	6,999792	-2,6085	0,044026	0,110271	-4,81634
GPATCH8	0,498362	8,534531	2,608418	0,04403	0,110271	-4,81645
SEPSECS	0,50448	6,194654	2,608048	0,044051	0,110303	-4,81696
LTB4R	1,480236	5,579792	2,607466	0,044084	0,110365	-4,81775
SDHB	-0,44426	7,760543	-2,60622	0,044153	0,11052	-4,81944
ZNF197	0,710489	5,497223	2,605089	0,044217	0,110652	-4,82099
PPP6R3	0,339945	8,064554	2,605007	0,044222	0,110652	-4,8211
MYL12A	-0,36165	10,00691	-2,60459	0,044245	0,110691	-4,82167
PGPEP1	-0,4206	5,693734	-2,60309	0,04433	0,110883	-4,82371
FAM136A	-0,70029	6,370938	-2,60178	0,044403	0,111047	-4,82549
TPST2	-0,89752	6,864982	-2,60096	0,044449	0,111142	-4,8266
C16orf74	-1,89043	2,493168	-2,60083	0,044457	0,111142	-4,82678
WDR89	0,394788	6,949947	2,600498	0,044476	0,111151	-4,82724
CPNE7	1,407464	3,006029	2,600491	0,044476	0,111151	-4,82725
ARHGEF6	-0,4476	7,875723	-2,60004	0,044502	0,111195	-4,82786
USP45	0,618999	5,222127	2,599827	0,044514	0,111202	-4,82815
N4BP3	1,069095	3,698499	2,599466	0,044534	0,111202	-4,82864
CLEC14A	2,302297	1,151148	2,599295	0,044544	0,111202	-4,82888
FNDC5	2,302297	1,151148	2,599295	0,044544	0,111202	-4,82888
OR6C74	2,302297	1,151148	2,599295	0,044544	0,111202	-4,82888
IGBP1	0,388883	8,196074	2,599041	0,044558	0,111218	-4,82922
GPBP1	0,406303	9,921369	2,598755	0,044574	0,111239	-4,82961
ERP44	-0,34406	8,622369	-2,59757	0,044641	0,111386	-4,83122
GIT2	-0,44087	8,245342	-2,59649	0,044703	0,111519	-4,83269
TTYH2	-0,79213	4,834446	-2,59636	0,04471	0,111519	-4,83287

STAP1	0,53915	5,682178	2,595945	0,044734	0,111558	-4,83344
SLC25A29	-1,76406	3,948588	-2,59564	0,044751	0,111563	-4,83385
ADAM15	-2,75074	3,751799	-2,59553	0,044757	0,111563	-4,834
LMBR1	0,518662	6,121039	2,595498	0,044759	0,111563	-4,83405
MXD1	-0,65249	6,819581	-2,59486	0,044795	0,111633	-4,83491
NFU1	0,417765	7,512527	2,594536	0,044814	0,11166	-4,83536
HES1	1,758363	3,376466	2,594285	0,044828	0,111676	-4,8357
TAB1	0,515784	5,685347	2,594122	0,044838	0,111679	-4,83592
TAF3	0,319561	8,151511	2,593468	0,044875	0,111734	-4,83681
MBNL1	-0,34155	10,95902	-2,59346	0,044875	0,111734	-4,83682
SLAIN1	0,835815	5,65513	2,593231	0,044888	0,111747	-4,83714
SIVA1	0,448655	7,658255	2,591626	0,04498	0,111956	-4,83932
C12orf4	-0,42221	6,220524	-2,59103	0,045014	0,112021	-4,84014
GOT1	0,905562	5,532647	2,589448	0,045105	0,112227	-4,84229
INO80B	0,823526	5,535779	2,589139	0,045123	0,112251	-4,84271
SCARNA10	2,740797	2,565386	2,588586	0,045155	0,11231	-4,84347
ATP8B2	0,403036	7,089627	2,588229	0,045175	0,112335	-4,84395
AGPS	-0,51612	7,104475	-2,58814	0,04518	0,112335	-4,84408
FAM155A	1,955416	2,172696	2,587837	0,045198	0,112358	-4,84449
GBE1	-0,76094	6,235631	-2,58727	0,04523	0,11242	-4,84526
TSEN54	0,392434	7,561616	2,586907	0,045251	0,112452	-4,84575
WDR47	-0,49823	5,158229	-2,58648	0,045276	0,112493	-4,84634
MLX	-1,13268	6,331021	-2,58612	0,045297	0,112525	-4,84683
S1PR1	0,404028	9,037174	2,585236	0,045347	0,112623	-4,84803
LAT	0,742047	5,213312	2,585155	0,045352	0,112623	-4,84814
YKT6	0,340543	7,650287	2,584842	0,04537	0,112649	-4,84857
GOSR2	0,460944	6,925904	2,584693	0,045379	0,11265	-4,84877
ZBTB49	0,494671	5,308341	2,584472	0,045392	0,112662	-4,84907
ENY2	-0,37014	8,200446	-2,58314	0,045469	0,112833	-4,85089
NDUFB7	0,402395	6,033649	2,582906	0,045482	0,112847	-4,85121
CENPJ	-0,7308	5,746945	-2,581	0,045593	0,113092	-4,8538
TXLNA	-0,64503	5,842548	-2,58093	0,045597	0,113092	-4,8539
LILRA4	-1,79744	1,565386	-2,58062	0,045615	0,113116	-4,85432
OSBPL7	0,881327	5,163136	2,579484	0,045681	0,11326	-4,85587
CHERP	0,413472	7,778223	2,577892	0,045773	0,113454	-4,85804
FLT3	1,578989	2,425124	2,577869	0,045775	0,113454	-4,85807
C11orf21	-1,06233	5,233354	-2,57747	0,045798	0,113476	-4,85861
FRS2	0,427804	6,672388	2,577438	0,0458	0,113476	-4,85866
EVI2B	-0,36037	9,850347	-2,57715	0,045817	0,113498	-4,85905
ENTPD5	0,606019	5,459387	2,577003	0,045825	0,113498	-4,85925
SGK3	-0,88487	7,09175	-2,57687	0,045833	0,113498	-4,85943
TBRG4	0,691916	6,147744	2,576458	0,045857	0,113539	-4,86
NIP7	0,355565	6,350421	2,57594	0,045887	0,113594	-4,8607
CGGBP1	0,313167	8,962823	2,574958	0,045945	0,113714	-4,86204
CTLA4	0,768919	5,066038	2,574766	0,045956	0,113714	-4,8623
CLDN12	1,944297	3,412791	2,574694	0,04596	0,113714	-4,8624
FKBP1A	-0,66693	7,248346	-2,57445	0,045974	0,113729	-4,86273
ANK1	1,542027	5,032559	2,57423	0,045988	0,113742	-4,86303
ZNF142	-0,92834	4,369776	-2,57389	0,046008	0,113772	-4,8635
DAGLB	-0,84727	4,564326	-2,57366	0,046021	0,113784	-4,8638
WDR20	0,388127	6,477272	2,573175	0,046049	0,113822	-4,86447
RHEB	-0,7408	6,181408	-2,57312	0,046053	0,113822	-4,86455

HTR7P1	0,359702	4,423907	2,572991	0,04606	0,113822	-4,86472
SEC11A	0,368608	9,473514	2,572403	0,046095	0,113887	-4,86552
NCBP2	0,341007	7,879136	2,572251	0,046104	0,113889	-4,86573
TSIX	2,132888	3,318073	2,571813	0,046129	0,113933	-4,86633
PAK1IP1	-0,6211	6,131297	-2,57138	0,046155	0,113976	-4,86692
CKLF	-0,41423	7,348834	-2,57077	0,046191	0,114045	-4,86775
ZNF700	-1,4526	3,988933	-2,5675	0,046383	0,114497	-4,87221
08-set	-1,36651	3,619041	-2,56739	0,04639	0,114497	-4,87236
ORAI3	-2,23636	5,022929	-2,5652	0,04652	0,114798	-4,87536
RPA3	0,545006	6,882176	2,564749	0,046547	0,114844	-4,87596
MRPL37	0,812771	5,667777	2,564244	0,046577	0,114897	-4,87665
SETD1B	0,414288	8,443117	2,563876	0,046599	0,114931	-4,87715
RER1	-0,43013	7,784801	-2,56363	0,046613	0,114942	-4,87749
PPP1R9B	-0,78776	7,641851	-2,56345	0,046624	0,114942	-4,87773
NDRG1	-1,1139	8,078957	-2,5634	0,046627	0,114942	-4,87781
MAN2B1	-1,65909	2,270189	-2,563	0,046651	0,114979	-4,87835
OGDH	-0,93222	5,407364	-2,56035	0,046809	0,115349	-4,88196
SRD5A1	-2,76746	3,886327	-2,56005	0,046826	0,115373	-4,88237
MBD5	0,680668	7,906986	2,558588	0,046914	0,115568	-4,88437
NONO	0,372622	9,733539	2,558087	0,046944	0,115622	-4,88505
ATAT1	-2,00746	2,337061	-2,55792	0,046954	0,115627	-4,88528
ANKRD36B	1,900147	1,283407	2,556373	0,047047	0,115835	-4,88739
XRCC4	-0,69385	5,177544	-2,55553	0,047098	0,11594	-4,88855
ARID4B	0,348794	10,84191	2,554696	0,047148	0,116013	-4,88968
ANKHD1-EI	-2,2049	2,543094	-2,55468	0,047149	0,116013	-4,88971
MRPL39	0,563173	5,498155	2,554557	0,047156	0,116013	-4,88987
ANGEL2	0,382632	7,533832	2,55447	0,047161	0,116013	-4,88999
MTCH1	0,436674	8,506419	2,554352	0,047168	0,116013	-4,89015
NINJ2	-1,68146	1,948042	-2,5541	0,047183	0,11603	-4,89049
OSTCP1	-1,72331	1,968964	-2,55392	0,047195	0,116037	-4,89074
PTMA	-0,38925	11,43845	-2,55321	0,047237	0,116122	-4,89171
SERINC1	0,376377	9,242392	2,552744	0,047265	0,116159	-4,89234
ERBB3	2,63563	2,091791	2,552687	0,047269	0,116159	-4,89242
SRSF7	-0,31638	9,765331	-2,55197	0,047312	0,116211	-4,89339
RASSF5	0,341314	10,28504	2,551972	0,047312	0,116211	-4,8934
ZNF593	-2,55541	3,385013	-2,55193	0,047315	0,116211	-4,89346
BUB1	1,445957	3,112953	2,551699	0,047329	0,116218	-4,89377
POLA2	-2,96329	2,814981	-2,55161	0,047334	0,116218	-4,89389
MAP3K11	-0,53693	5,344438	-2,551	0,047371	0,116288	-4,89472
PNISR	-0,35413	11,33776	-2,55021	0,047418	0,116385	-4,8958
GIMAP2	0,362043	8,26049	2,548792	0,047505	0,116576	-4,89774
POLR3G	1,209716	3,981286	2,548492	0,047523	0,1166	-4,89815
ZNF48	0,874448	5,522553	2,548186	0,047541	0,116626	-4,89856
PECR	-1,38847	3,801544	-2,54803	0,047551	0,116629	-4,89878
PRH1	0,998976	5,376623	2,547611	0,047576	0,116671	-4,89935
PDE6B	1,074131	2,667838	2,546641	0,047635	0,116795	-4,90067
DCAF10	0,559738	7,562974	2,544466	0,047768	0,1171	-4,90364
ACTR1A	-2,14477	4,970214	-2,5432	0,047845	0,117269	-4,90537
NCOR2	-0,34801	7,838052	-2,54183	0,047929	0,117441	-4,90724
RPL34	0,325693	11,91947	2,541785	0,047932	0,117441	-4,9073
FASTKD5	0,407082	7,852241	2,541588	0,047944	0,11745	-4,90757
FAM91A1	-0,34702	7,546031	-2,54094	0,047983	0,117527	-4,90845

AHCYL1	-0,37522	9,046715	-2,5408	0,047992	0,117528	-4,90864
GAMT	-1,72331	1,63563	-2,54054	0,048008	0,11754	-4,909
PIBF1	0,640149	6,494308	2,54045	0,048014	0,11754	-4,90912
MED20	-1,2638	3,306025	-2,53989	0,048048	0,117604	-4,90989
COMMD2	-0,3611	7,608196	-2,5394	0,048078	0,117657	-4,91056
PAN2	0,957868	5,71103	2,538676	0,048123	0,117745	-4,91155
BRMS1L	-0,5594	4,523474	-2,53836	0,048142	0,117772	-4,91197
ZNF596	1,675178	3,075671	2,537747	0,04818	0,117845	-4,91281
SRBD1	-0,35559	6,538595	-2,53709	0,048221	0,117923	-4,91371
TSFM	0,922339	6,031079	2,536905	0,048232	0,117931	-4,91396
TMEM69	0,341148	5,583176	2,536687	0,048245	0,117943	-4,91426
HCFC1R1	-2,68634	3,705659	-2,53565	0,048309	0,118066	-4,91568
CLOCK	0,349659	7,65511	2,535601	0,048312	0,118066	-4,91574
NAP1L1	0,340084	11,38007	2,535159	0,04834	0,118107	-4,91635
TAF6	0,790437	5,249299	2,535061	0,048346	0,118107	-4,91648
USP30	0,680333	5,192973	2,533961	0,048414	0,118253	-4,91798
EIF2B2	-0,64553	4,996452	-2,53332	0,048454	0,11833	-4,91886
SEMA3G	2,258994	2,657818	2,532927	0,048478	0,118369	-4,9194
KLHL6	0,478476	7,404546	2,532737	0,04849	0,118374	-4,91966
UBE2J1	-0,39713	8,689355	-2,53262	0,048497	0,118374	-4,91981
PTPRO	-0,42336	5,122121	-2,5323	0,048517	0,118403	-4,92025
PLCB4	2,043094	2,46219	2,531406	0,048572	0,118517	-4,92147
UGT2B7	2,296824	3,928362	2,531141	0,048589	0,118537	-4,92183
ZDHHC6	-0,37295	6,935106	-2,5305	0,048629	0,118613	-4,92271
MZF1	0,723129	5,435578	2,529024	0,048721	0,118818	-4,92473
UBASH3B	0,611038	7,253546	2,528826	0,048733	0,118827	-4,925
ZKSCAN1	0,333461	8,232044	2,527971	0,048786	0,118937	-4,92616
IL16	0,514631	9,357181	2,527731	0,048801	0,118953	-4,92649
CIRBP	-0,44477	8,719476	-2,52756	0,048812	0,118959	-4,92673
F2RL1	0,863136	3,618982	2,525926	0,048914	0,119187	-4,92896
CD2BP2	0,400641	6,560725	2,525478	0,048942	0,119235	-4,92957
LDOC1	0,933404	4,020628	2,525188	0,048961	0,11925	-4,92997
GALT	0,37061	5,943094	2,525108	0,048966	0,11925	-4,93008
CRKL	0,406263	7,831365	2,524891	0,048979	0,119263	-4,93037
CMC1	0,42149	8,04222	2,523923	0,04904	0,11939	-4,93169
C6orf136	-2,20116	2,981865	-2,52332	0,049078	0,119462	-4,93252
MORN1	2,056642	1,964106	2,52048	0,049257	0,119876	-4,9364
CD79B	0,432541	5,358359	2,520321	0,049267	0,11988	-4,93662
NSFL1C	-0,44386	6,68951	-2,51944	0,049322	0,119994	-4,93781
THNSL1	1,416288	3,488094	2,518992	0,049351	0,120039	-4,93843
ZNF133	0,922518	3,86115	2,518882	0,049358	0,120039	-4,93858
COPE	-0,35968	6,578664	-2,51708	0,049471	0,120296	-4,94104
PRKCB	-0,34668	9,412102	-2,51647	0,04951	0,120369	-4,94187
TRAK2	-0,52097	7,345595	-2,51619	0,049528	0,120392	-4,94226
RECK	0,575815	5,930438	2,515924	0,049545	0,120412	-4,94262
VAC14	-2,49514	2,354881	-2,51511	0,049597	0,120517	-4,94373
NSUN5P2	1,320356	5,183067	2,514865	0,049612	0,120534	-4,94407
BCL2	-0,42626	7,466207	-2,51447	0,049637	0,120574	-4,9446
GRB10	-2,0858	2,042898	-2,51379	0,04968	0,120659	-4,94553
TC2N	0,354459	8,847062	2,513163	0,049721	0,120736	-4,9464
HLTF	-0,3513	6,626055	-2,51269	0,049751	0,120788	-4,94704
PDCD10	-0,41504	8,177767	-2,51186	0,049804	0,120895	-4,94817

C1orf131	0,343042	7,943699	2,511624	0,049819	0,120912	-4,9485
BAZ1B	0,433893	9,153652	2,511174	0,049848	0,120961	-4,94911
CPOX	0,546768	6,02522	2,510829	0,04987	0,120993	-4,94958
CDC27	0,341597	7,57176	2,510566	0,049886	0,121013	-4,94994
ALDH16A1	-0,82561	5,435061	-2,51013	0,049914	0,12106	-4,95053
FRMD3	1,125995	5,780612	2,509597	0,049948	0,121109	-4,95127
TMTC3	0,381186	6,535684	2,50955	0,049951	0,121109	-4,95133
SRSF6	-0,4924	8,012031	-2,50896	0,04999	0,12118	-4,95214
GIGYF1	-0,664	7,120775	-2,50714	0,050106	0,121442	-4,95463
SHKBP1	-2,15625	5,062859	-2,50636	0,050156	0,121536	-4,95569
SNUPN	-0,5234	4,29831	-2,50619	0,050167	0,121536	-4,95592
RGS4	2,214619	1,440643	2,505898	0,050186	0,121536	-4,95633
QPRT	2,214619	1,440643	2,505898	0,050186	0,121536	-4,95633
ASB13	-1,46411	1,260374	-2,50575	0,050195	0,121536	-4,95652
NEAT1	0,418408	11,10144	2,505734	0,050197	0,121536	-4,95655
ENOPH1	0,347181	7,214601	2,504083	0,050303	0,121757	-4,95881
TBX21	0,59672	7,024728	2,50405	0,050305	0,121757	-4,95885
TMX4	-0,41388	8,815176	-2,50315	0,050363	0,121857	-4,96008
CTDP1	0,465333	6,335612	2,503143	0,050364	0,121857	-4,96009
MRPL28	-1,2167	3,758755	-2,50204	0,050435	0,12201	-4,9616
METTL21A	-0,72517	5,956847	-2,50145	0,050473	0,12208	-4,9624
DAP3	0,409439	8,118406	2,500682	0,050523	0,122179	-4,96345
NLRP2	2,302297	2,948588	2,500558	0,050531	0,122179	-4,96362
ERAL1	-2,05664	2,13563	-2,50017	0,050556	0,122219	-4,96416
DDX47	-1,99243	2,329547	-2,49998	0,050568	0,122227	-4,96441
COX16	0,586156	5,683164	2,498759	0,050648	0,122398	-4,96608
DAZAP2	-0,35718	10,41177	-2,4986	0,050658	0,122402	-4,9663
ATF7	-1,0847	5,049552	-2,49795	0,0507	0,122483	-4,96719
HNRNPC	0,317481	8,878579	2,497734	0,050715	0,122497	-4,96749
PTPDC1	-1,51615	2,922024	-2,49752	0,050728	0,122509	-4,96778
PDLIM1	0,9455	4,967775	2,497227	0,050748	0,122534	-4,96818
CMAS	-0,57708	7,153502	-2,49707	0,050758	0,122538	-4,96839
CXCL3	0,484946	6,459791	2,496635	0,050786	0,122586	-4,96899
BRD2	0,321328	9,60132	2,495821	0,050839	0,122664	-4,9701
ZFP90	0,821809	5,891885	2,49575	0,050844	0,122664	-4,9702
TTC39C	0,339307	8,37087	2,495742	0,050844	0,122664	-4,97021
PTGER3	3,198454	3,889348	2,494898	0,0509	0,122774	-4,97136
MTMR4	-0,43127	6,140978	-2,49478	0,050907	0,122774	-4,97153
YES1	0,572069	4,547579	2,49439	0,050933	0,122814	-4,97206
SLC22A1	1,63563	2,120112	2,493641	0,050982	0,122911	-4,97308
SLC40A1	-0,74259	5,337591	-2,49327	0,051006	0,122948	-4,97359
USP10	0,399254	8,524933	2,492881	0,051032	0,122989	-4,97412
ISM1	-2,10731	1,581976	-2,49203	0,051088	0,123082	-4,97529
SUV39H2	-2,10731	1,581976	-2,49203	0,051088	0,123082	-4,97529
ZNF619	1,290663	4,14793	2,491112	0,051148	0,123206	-4,97654
UBE2A	-0,54011	7,318646	-2,49014	0,051212	0,123339	-4,97787
NPHP4	-0,85912	4,009485	-2,48983	0,051232	0,123367	-4,97829
APOL2	0,355182	7,760903	2,489189	0,051274	0,123437	-4,97917
SMURF2	0,349947	7,252155	2,489121	0,051279	0,123437	-4,97926
OTUD1	-0,69986	6,495158	-2,48866	0,051309	0,123482	-4,9799
MEMO1	0,946988	5,129896	2,488576	0,051315	0,123482	-4,98001
ELOVL6	1,639179	3,316874	2,48722	0,051404	0,123676	-4,98186

SACM1L	0,448946	8,015494	2,486717	0,051437	0,123735	-4,98255
FMNL2	-2,74879	3,912633	-2,48623	0,051469	0,123791	-4,98321
PRNP	-0,40049	7,641934	-2,486	0,051485	0,123807	-4,98353
COMMD7	-0,46327	6,765531	-2,48577	0,0515	0,123822	-4,98385
PEG10	-1,57899	1,984482	-2,48555	0,051514	0,123824	-4,98415
NAAA	-0,43903	6,582445	-2,48549	0,051518	0,123824	-4,98423
C15orf62	2,5875	2,229535	2,484857	0,05156	0,123892	-4,98509
SRFBP1	0,431978	6,483762	2,484801	0,051564	0,123892	-4,98517
SLC17A5	-1,02752	5,446651	-2,48431	0,051597	0,12395	-4,98585
MID1	1,935785	1,634559	2,483479	0,051652	0,124061	-4,98698
GPRASP1	0,480944	6,900867	2,48334	0,051661	0,124062	-4,98717
SLC2A4RG	-0,58017	6,664581	-2,48304	0,051681	0,124089	-4,98758
GBP6	1,601048	3,672094	2,482084	0,051744	0,12422	-4,98889
EBP	-0,91178	5,867838	-2,47975	0,0519	0,124573	-4,99208
TPRG1L	0,368962	6,869047	2,479544	0,051914	0,124579	-4,99236
LYRM7	0,323828	7,823583	2,479446	0,05192	0,124579	-4,9925
ZNF182	0,591204	5,931624	2,478893	0,051957	0,124646	-4,99325
BTG1	-0,33369	11,67714	-2,47871	0,05197	0,124655	-4,99351
PEX11A	-1,16181	3,255027	-2,47811	0,05201	0,12473	-4,99433
CCT8	0,416869	8,637597	2,477902	0,052024	0,124742	-4,99461
UQCRCQ	-0,57603	7,659521	-2,47703	0,052082	0,12486	-4,9958
ITFG1	0,339905	7,555129	2,474909	0,052224	0,12518	-4,9987
LEPR	0,668645	5,12817	2,474552	0,052248	0,125202	-4,99919
ATP10A	0,652048	5,679927	2,474511	0,052251	0,125202	-4,99925
FKBP8	0,871691	4,577584	2,473632	0,05231	0,125307	-5,00045
NCAM1	0,404285	5,652778	2,473513	0,052318	0,125307	-5,00061
SNX29	-0,59774	6,228072	-2,47347	0,052321	0,125307	-5,00068
MYEF2	0,950911	5,252054	2,472436	0,052391	0,125452	-5,00209
CYCS	-0,33084	7,977541	-2,47191	0,052426	0,125516	-5,00281
CD44	-0,33654	10,99186	-2,4713	0,052467	0,125593	-5,00365
DCBLD1	0,670335	6,038387	2,469972	0,052557	0,125786	-5,00546
GALNT10	0,507718	6,589053	2,469458	0,052592	0,12581	-5,00616
BAAT	2,409606	1,204803	2,4693	0,052602	0,12581	-5,00638
MAP1B	2,409606	1,204803	2,4693	0,052602	0,12581	-5,00638
NFASC	2,409606	1,204803	2,4693	0,052602	0,12581	-5,00638
PHLDA1	-0,67193	6,418714	-2,46899	0,052624	0,125839	-5,00681
LSR	0,484186	6,009354	2,46865	0,052647	0,125873	-5,00727
FANCE	-1,19585	3,97435	-2,46843	0,052662	0,125887	-5,00757
MMS19	0,361758	7,655173	2,467749	0,052708	0,125976	-5,0085
SMARCA4	-0,39116	7,892697	-2,46755	0,052721	0,125986	-5,00877
CLSTN3	-0,658	4,038762	-2,46677	0,052774	0,126092	-5,00983
ISG20L2	0,334804	6,578538	2,466175	0,052815	0,126168	-5,01065
RASA2	0,416161	8,625229	2,4654	0,052867	0,126272	-5,01171
ALS2CR12	0,762257	4,119235	2,462134	0,05309	0,126783	-5,01618
LTV1	0,399034	7,407549	2,461346	0,053144	0,126875	-5,01726
TCTEX1D2	0,78837	4,929962	2,461309	0,053147	0,126875	-5,01731
PPIE	0,725626	5,818117	2,46024	0,05322	0,127028	-5,01878
RNF7	-0,31232	7,368589	-2,46011	0,053229	0,127028	-5,01896
ANKRD33B	0,960452	4,463015	2,45963	0,053262	0,127085	-5,01961
MAGEA10	1,269118	1,496213	2,459369	0,053279	0,127106	-5,01997
LPIN2	0,368647	8,341369	2,45877	0,053321	0,127183	-5,02079
SAT2	-0,66311	6,20163	-2,45801	0,053373	0,127286	-5,02182

SLC41A3	-0,94488	4,378048	-2,45772	0,053393	0,127313	-5,02223
PGGT1B	-0,37805	7,499065	-2,45722	0,053427	0,127373	-5,02291
HLA-F-AS1	-1,44782	3,742338	-2,45704	0,053439	0,12738	-5,02315
ZNF93	-1,76426	2,430082	-2,45671	0,053462	0,127413	-5,0236
C1GALT1	-0,44536	7,474522	-2,45646	0,05348	0,127426	-5,02396
ZNF880	-2,00746	2,60618	-2,45637	0,053486	0,127426	-5,02407
MLLT6	0,373227	8,479374	2,454855	0,05359	0,127654	-5,02615
TWSG1	-1,27864	4,953675	-2,45431	0,053628	0,127723	-5,0269
ZBTB32	-1,86165	1,459148	-2,45278	0,053734	0,127953	-5,02899
NCAPG2	-0,92061	4,516113	-2,45128	0,053838	0,128158	-5,03104
AKAP12	0,349932	6,443453	2,451276	0,053838	0,128158	-5,03105
TRIAP1	0,421634	7,36469	2,450148	0,053916	0,128323	-5,03259
ZBP1	-0,67938	4,132093	-2,44895	0,054	0,128482	-5,03423
GMFG	-0,36594	7,842546	-2,44893	0,054001	0,128482	-5,03426
RBBP4	0,327122	8,00416	2,448461	0,054034	0,128537	-5,0349
ADCK2	0,580613	6,303736	2,447988	0,054067	0,128575	-5,03555
TMEM121	-0,86165	0,76416	-2,44791	0,054072	0,128575	-5,03565
SRRM2	0,308849	10,6354	2,447844	0,054077	0,128575	-5,03575
CISD3	-1,06459	5,098675	-2,44676	0,054153	0,128733	-5,03723
LRRC6	1,802456	4,032001	2,446591	0,054164	0,128739	-5,03746
USP1	0,310101	9,207535	2,446086	0,0542	0,128802	-5,03815
ZXDA	-2,37159	2,293107	-2,44587	0,054215	0,128802	-5,03845
SH3BP5	-0,37955	8,485953	-2,44582	0,054218	0,128802	-5,03851
DDX59	-0,37824	6,634692	-2,44548	0,054242	0,128837	-5,03898
ACSM2B	1,107309	1,415309	2,445105	0,054268	0,128849	-5,03949
ATP6VOD2	1,107309	1,415309	2,445105	0,054268	0,128849	-5,03949
YIPF1	-0,41167	5,881595	-2,44502	0,054274	0,128849	-5,03962
CAHM	1,838917	4,490874	2,444839	0,054287	0,128857	-5,03986
AKT1	-0,56833	6,685912	-2,4446	0,054304	0,128875	-5,04018
HLCS	0,795436	4,164121	2,444353	0,054321	0,128883	-5,04052
DSTN	-0,32522	7,886157	-2,4443	0,054325	0,128883	-5,0406
MANF	-0,68051	6,739732	-2,44358	0,054375	0,128979	-5,04159
TUSC2	0,353429	8,019692	2,443459	0,054384	0,128979	-5,04175
SLC7A8	-2,02915	2,845195	-2,44317	0,054404	0,129005	-5,04215
LAMTOR3	-0,48049	7,195592	-2,43953	0,05466	0,12959	-5,04712
ATAD1	0,397507	7,444784	2,437757	0,054785	0,129866	-5,04956
ADSL	-0,46039	7,028534	-2,437	0,054839	0,129971	-5,05059
KIAA0040	-0,37312	8,073728	-2,43604	0,054907	0,130111	-5,05191
BNIP1	-1,02915	3,062529	-2,43555	0,054942	0,130171	-5,05258
RNF19A	0,318714	8,596478	2,433056	0,055119	0,130569	-5,05599
C1orf61	2,019631	2,066457	2,43281	0,055136	0,130571	-5,05633
FCRL2	0,908755	4,978453	2,432783	0,055138	0,130571	-5,05637
DDT	-2,36148	3,350003	-2,43252	0,055157	0,130584	-5,05673
STRN	-0,3785	7,592536	-2,43245	0,055162	0,130584	-5,05683
NUDT16	-3,20298	4,615375	-2,43192	0,0552	0,130651	-5,05755
NRBP1	-0,5267	6,935807	-2,43168	0,055217	0,130657	-5,05788
SH3GLB2	-0,79119	5,107498	-2,43158	0,055224	0,130657	-5,05802
FLNB	0,783503	5,899381	2,431372	0,055239	0,130657	-5,0583
CAB39	0,374261	8,72864	2,431355	0,05524	0,130657	-5,05832
PLCD3	2,32576	2,270189	2,431236	0,055248	0,130657	-5,05849
NUDCD3	0,413678	6,674329	2,43063	0,055292	0,130738	-5,05932
NIF3L1	0,432497	6,11642	2,43041	0,055307	0,130746	-5,05962

TRIM44	0,363393	9,190275	2,430319	0,055314	0,130746	-5,05974
TADA2B	0,353167	6,423177	2,429865	0,055346	0,130801	-5,06036
NDUFV1	0,584248	6,675399	2,429567	0,055368	0,13083	-5,06077
NOL11	0,383334	7,524755	2,428425	0,055449	0,131001	-5,06234
WTAP	0,307805	9,038071	2,428129	0,055471	0,131029	-5,06274
ABCA10	1,03712	3,40582	2,427403	0,055523	0,13113	-5,06374
MREG	-1,21851	4,825149	-2,42638	0,055596	0,131281	-5,06513
KRAS	-0,34369	8,747069	-2,42456	0,055727	0,131549	-5,06763
RASSF7	-2,46625	3,233124	-2,42455	0,055728	0,131549	-5,06765
SLC2A11	0,799083	4,699956	2,424345	0,055743	0,131561	-5,06792
PRKAG1	0,567694	7,2232	2,42403	0,055765	0,131593	-5,06836
KCNJ10	-1,55178	2,216535	-2,42357	0,055799	0,13165	-5,06899
IFI27	-3,13317	4,225678	-2,4234	0,055811	0,131656	-5,06922
NSUN5	0,47294	6,781276	2,422789	0,055855	0,131728	-5,07006
ST13	0,325884	8,497979	2,422719	0,05586	0,131728	-5,07015
NF1	0,643486	7,60892	2,422148	0,055901	0,131803	-5,07093
ACYP2	0,702363	5,022987	2,420895	0,055992	0,131995	-5,07265
TMEM65	-0,59496	6,221962	-2,42024	0,056039	0,132084	-5,07354
TUBG1	-2,46625	3,502242	-2,41998	0,056058	0,132107	-5,0739
PGP	-0,95202	5,864497	-2,41801	0,056201	0,132421	-5,0766
ABHD14B	0,348293	6,448839	2,417884	0,05621	0,132421	-5,07677
UBA3	0,486581	7,677257	2,41729	0,056253	0,132501	-5,07759
MAFF	-0,67389	6,218604	-2,4167	0,056297	0,132581	-5,0784
SQSTM1	-0,31204	8,826017	-2,41652	0,056309	0,132582	-5,07864
ACAP1	0,410516	6,305852	2,41643	0,056316	0,132582	-5,07877
MED30	0,41295	6,661818	2,415239	0,056403	0,132765	-5,0804
NFKBIB	0,52659	5,851586	2,413706	0,056515	0,133006	-5,0825
ORMDL2	-0,50285	6,700099	-2,41353	0,056527	0,133014	-5,08274
THEM4	0,408765	6,037794	2,413327	0,056542	0,133027	-5,08302
ALG2	0,333081	7,939638	2,413187	0,056553	0,133029	-5,08321
LRP8	-0,78846	5,72306	-2,41298	0,056568	0,133042	-5,08349
C7orf31	-0,69511	4,651976	-2,41282	0,05658	0,133048	-5,08371
MED23	0,47003	6,816795	2,412613	0,056595	0,133061	-5,084
E2F3	0,336751	8,777982	2,412325	0,056616	0,133084	-5,08439
PRKAA1	0,303142	7,883157	2,412222	0,056623	0,133084	-5,08453
FLYWCH2	-2,23797	3,226293	-2,41166	0,056664	0,133159	-5,0853
AHCTF1	0,364007	6,97361	2,411423	0,056682	0,133178	-5,08563
FAM50A	-0,83041	5,321204	-2,41043	0,056755	0,133327	-5,08699
SNRPD3	-0,50187	7,845836	-2,41017	0,056774	0,13335	-5,08734
C12orf10	0,503654	5,01823	2,409872	0,056796	0,133365	-5,08775
IDE	-0,36598	5,449417	-2,40983	0,056799	0,133365	-5,08781
SYPL1	-0,4539	7,716434	-2,40882	0,056873	0,133516	-5,0892
TRAF5	0,478638	7,063811	2,408215	0,056918	0,133598	-5,09002
HK2	-4,4752	6,375829	-2,40795	0,056937	0,133614	-5,09038
B3GALT6	-1,76982	5,704317	-2,40787	0,056943	0,133614	-5,0905
IFIT1	-0,99634	3,541263	-2,40763	0,056961	0,133625	-5,09083
GABARAPL1	-0,47976	7,280016	-2,40755	0,056967	0,133625	-5,09093
CIZ1	-0,46054	6,033733	-2,4057	0,057103	0,133922	-5,09346
TBC1D16	-0,80501	2,533279	-2,40556	0,057114	0,133925	-5,09366
SCYL2	-0,36678	8,12002	-2,40536	0,057128	0,133937	-5,09393
TSPAN33	-2,46411	3,572842	-2,40502	0,057153	0,133974	-5,0944
CALHM2	-2,70804	3,103329	-2,40483	0,057168	0,133986	-5,09466

VPS16	-0,85252	5,349987	-2,40453	0,05719	0,134014	-5,09507
PRAF2	0,422414	6,163608	2,403944	0,057233	0,134094	-5,09587
BMS1P1	1,107309	1,220321	2,402949	0,057307	0,134245	-5,09724
RAP1GAP2	-0,87259	4,532199	-2,4026	0,057333	0,134281	-5,09771
UBTD2	-1,87092	5,862443	-2,40248	0,057341	0,134281	-5,09787
RAB2A	-0,33263	9,316437	-2,40181	0,057391	0,134376	-5,0988
ZFP62	0,641585	7,133915	2,400188	0,057512	0,134601	-5,10102
ACACA	1,095904	5,106678	2,400138	0,057516	0,134601	-5,10109
SCAMP4	-1,32937	4,885275	-2,40013	0,057516	0,134601	-5,1011
SPG11	0,518393	8,186596	2,399273	0,05758	0,134729	-5,10227
MAGOHB	0,513895	5,475868	2,399065	0,057596	0,134743	-5,10256
TTC5	0,4483	5,945868	2,39799	0,057676	0,134908	-5,10403
TBC1D20	-1,10814	5,881081	-2,39764	0,057702	0,134947	-5,10451
IL2	1,739185	3,838556	2,397402	0,05772	0,134966	-5,10484
SKA2	-0,70975	5,919816	-2,39659	0,057781	0,135086	-5,10595
ITSN1	-1,80095	3,133955	-2,39539	0,05787	0,135259	-5,10759
PGBD2	-1,77203	4,51762	-2,39535	0,057874	0,135259	-5,10766
LGI4	2,302297	1,925124	2,394805	0,057915	0,135332	-5,1084
CHRM3	1,793607	2,694243	2,393955	0,057978	0,135459	-5,10956
LMAN1	0,302995	9,037867	2,391208	0,058185	0,135909	-5,11333
C8orf59	0,375238	7,899111	2,391103	0,058193	0,135909	-5,11347
ZNF846	1,074131	2,839362	2,390895	0,058209	0,135909	-5,11376
EIF2AK3	0,394688	7,146232	2,39088	0,05821	0,135909	-5,11377
PDGFC	-1,65526	3,732379	-2,3894	0,058322	0,136128	-5,11581
RGS10	-0,32649	7,923315	-2,38939	0,058323	0,136128	-5,11582
AVL9	-0,32704	6,745855	-2,38882	0,058365	0,136205	-5,1166
MYO3A	1,866968	2,235781	2,388543	0,058386	0,136232	-5,11698
ARMCX1	-0,95502	3,187273	-2,38661	0,058533	0,136551	-5,11963
LYSMD4	-1,57142	1,452374	-2,38623	0,058562	0,136597	-5,12015
PSTPIP1	-0,94274	4,450252	-2,38606	0,058574	0,136603	-5,12038
DUSP8	0,862865	5,539211	2,38529	0,058633	0,136702	-5,12144
LRP10	-0,31032	7,51524	-2,3852	0,05864	0,136702	-5,12156
COPG1	-0,44847	6,050456	-2,38512	0,058646	0,136702	-5,12167
CLK4	0,384545	7,626205	2,384606	0,058685	0,136771	-5,12237
INPP1	-0,58297	4,950339	-2,384	0,058731	0,136856	-5,1232
WWTR1	1,413155	2,096553	2,383209	0,058792	0,136974	-5,12429
IDH3A	-0,55529	6,339165	-2,38297	0,05881	0,136994	-5,12462
RRAGC	-0,60523	6,967081	-2,38283	0,058821	0,136997	-5,12481
HERPUD2	0,329241	8,798018	2,382565	0,058841	0,137	-5,12517
ITPRIP	-0,9721	4,45313	-2,38255	0,058842	0,137	-5,12519
RUFY1	-0,44201	7,247548	-2,3815	0,058922	0,137164	-5,12663
GPR160	-2,77368	3,870575	-2,38073	0,058981	0,137279	-5,12769
SNAPIN	-0,73152	6,096639	-2,38035	0,05901	0,137324	-5,12821
CX3CR1	0,412605	7,82055	2,380085	0,05903	0,137349	-5,12857
LAMC1	-1,99528	2,771616	-2,37993	0,059042	0,137353	-5,12878
ETFA	-0,40315	7,920242	-2,3798	0,059052	0,137355	-5,12896
MIEN1	-1,68998	4,221416	-2,37895	0,059117	0,137461	-5,13013
TMED10	-0,32186	9,727191	-2,37895	0,059118	0,137461	-5,13013
TPCN2	-0,65675	4,640588	-2,37791	0,059197	0,137624	-5,13155
SCML1	0,662139	6,547933	2,377021	0,059265	0,13776	-5,13277
CTTN	1,510911	2,831728	2,376504	0,059305	0,13783	-5,13348
SIRPG	-2,274	3,072785	-2,37613	0,059334	0,137853	-5,134

GPR180	-0,55918	6,248283	-2,37612	0,059335	0,137853	-5,134
KCNH5	2,830618	2,276963	2,375735	0,059364	0,137899	-5,13453
ALDOA	-1,66667	1,361654	-2,37546	0,059386	0,137917	-5,13491
POLR3H	-2,40961	2,771616	-2,37538	0,059392	0,137917	-5,13502
YPEL5	0,360066	8,46572	2,374699	0,059444	0,138017	-5,13595
TARBP1	0,739119	6,186426	2,374311	0,059474	0,13805	-5,13649
C2CD3	0,824124	5,369139	2,374259	0,059478	0,13805	-5,13656
ABCA6	1,099967	3,338758	2,37394	0,059503	0,138085	-5,13699
FLII	-0,39694	7,382098	-2,37322	0,059558	0,138191	-5,13798
SYNGR1	-1	0,833333	-2,37286	0,059586	0,138215	-5,13847
MAD2L2	-2,91956	4,16954	-2,37284	0,059588	0,138215	-5,13851
CRLS1	0,327164	7,19473	2,372549	0,05961	0,138225	-5,1389
EXOC6	0,516721	6,569998	2,372523	0,059612	0,138225	-5,13894
GOLGA2	-0,36009	7,555601	-2,37149	0,059693	0,138388	-5,14035
PFKM	-0,94067	2,601106	-2,36979	0,059825	0,138672	-5,14269
RNF122	-1,60245	1,329547	-2,36961	0,059839	0,13868	-5,14293
PES1	-0,57388	5,438713	-2,36949	0,059848	0,13868	-5,14309
BICD2	-0,3906	8,359657	-2,36897	0,059888	0,13875	-5,1438
COPG2	-2,00597	2,712748	-2,3685	0,059925	0,138813	-5,14445
SGPP1	-0,31704	7,250273	-2,36757	0,059997	0,138958	-5,14573
PPARA	-0,65657	6,266337	-2,36709	0,060034	0,139013	-5,14638
RPS24	0,304979	11,58395	2,367011	0,060041	0,139013	-5,14649
SLC39A13	-0,45634	6,142472	-2,36539	0,060167	0,139264	-5,14871
SERAC1	0,660461	5,147	2,365368	0,060169	0,139264	-5,14874
GLI3	2,25551	3,06354	2,364969	0,0602	0,139314	-5,14929
BAG4	0,449153	6,267755	2,364272	0,060255	0,139417	-5,15025
OFD1	0,516435	8,836354	2,364067	0,060271	0,139431	-5,15053
SP4	-0,47483	7,776182	-2,36343	0,06032	0,139523	-5,15139
GANAB	0,36855	8,911272	2,362947	0,060358	0,139585	-5,15206
MRPS26	-0,39377	5,372709	-2,36284	0,060367	0,139585	-5,15221
ILKAP	0,434258	7,392603	2,362362	0,060404	0,139642	-5,15286
SH3TC1	-0,80998	5,414754	-2,36227	0,060411	0,139642	-5,15298
EIF4A2	0,302195	9,840841	2,361389	0,060481	0,13978	-5,1542
CXorf58	2,245655	1,651148	2,361252	0,060491	0,139782	-5,15439
COX7B	-0,35924	8,146696	-2,35997	0,060592	0,139992	-5,15615
DUSP18	-2,57532	3,790261	-2,35907	0,060663	0,140132	-5,15737
NKAIN2	1,407464	1,89872	2,358506	0,060708	0,140213	-5,15815
SLC25A34	1,440643	1,581976	2,358297	0,060724	0,140228	-5,15844
FAM76A	-0,33454	5,837242	-2,35765	0,060776	0,140324	-5,15933
DCAF5	0,346679	8,177399	2,357381	0,060796	0,140349	-5,15969
PPHLN1	0,340635	8,86826	2,357184	0,060812	0,140362	-5,15996
FGGY	1,917531	4,609194	2,356111	0,060897	0,140535	-5,16144
UBE2H	0,355487	8,487183	2,355486	0,060946	0,140622	-5,16229
PAQR4	-2,22696	1,887457	-2,35538	0,060954	0,140622	-5,16243
CDIPT	-0,39235	6,848648	-2,35475	0,061005	0,140715	-5,1633
C1GALT1C1	-0,37572	6,583031	-2,35445	0,061029	0,140747	-5,16371
APOPT1	0,500628	5,724117	2,353432	0,061109	0,14091	-5,16511
APLF	0,605754	5,867373	2,35137	0,061273	0,141266	-5,16793
TXLNB	-2,42913	3,590991	-2,35051	0,061342	0,141401	-5,16912
ALKBH4	-1,57416	2,22772	-2,34982	0,061397	0,141505	-5,17006
RORB	1,464106	1,788695	2,349514	0,061421	0,141538	-5,17048
COPS2	0,357543	8,064787	2,349134	0,061452	0,141585	-5,171

HERPUD1	-0,31291	9,112573	-2,34886	0,061474	0,141612	-5,17137
PSMD6	0,347803	7,376861	2,34789	0,061551	0,141755	-5,17271
PQLC2	-1,49728	1,415309	-2,34783	0,061556	0,141755	-5,17278
MED29	0,451865	6,714533	2,346909	0,06163	0,141902	-5,17405
LEKR1	2,479135	2,629543	2,345717	0,061726	0,142099	-5,17568
CWC27	0,375638	8,293911	2,34446	0,061827	0,142309	-5,17741
AURKA	-1,03318	3,666993	-2,34403	0,061861	0,142366	-5,178
LENG1	-0,60019	4,533143	-2,34369	0,061888	0,142401	-5,17846
PNN	0,382824	9,702627	2,343589	0,061897	0,142401	-5,1786
SNX24	-1,51738	4,651852	-2,34293	0,06195	0,142499	-5,1795
BMPR2	-0,29536	7,904544	-2,34176	0,062044	0,142692	-5,18112
SARM1	1,074441	4,843881	2,341566	0,06206	0,142692	-5,18138
LPL	-1,85662	2,702285	-2,34152	0,062064	0,142692	-5,18144
CUL4B	0,343685	8,191083	2,339399	0,062235	0,143063	-5,18435
VAR5	-0,66351	3,858195	-2,3383	0,062324	0,143244	-5,18585
BANF1	-0,58467	6,080185	-2,33808	0,062342	0,143262	-5,18616
ENPP1	1,701031	2,435478	2,337692	0,062374	0,143301	-5,18669
XCL2	0,312216	4,062998	2,337313	0,062404	0,143301	-5,18721
DUSP19	1,063011	3,876897	2,337209	0,062413	0,143301	-5,18735
ZNF253	0,728013	5,473553	2,337193	0,062414	0,143301	-5,18737
ZNF446	-1,60519	2,350548	-2,33717	0,062416	0,143301	-5,1874
TRMT11	0,387023	5,818553	2,337122	0,06242	0,143301	-5,18747
SYNE1	-0,41944	9,063461	-2,33664	0,062459	0,143367	-5,18813
FAM168A	-0,55498	5,641743	-2,33634	0,062483	0,143399	-5,18853
TMEM160	-2,56275	2,948042	-2,33411	0,062665	0,143768	-5,1916
ADAT2	0,579153	5,655971	2,334096	0,062666	0,143768	-5,19162
TBC1D2B	0,59283	7,377826	2,333884	0,062684	0,143768	-5,19191
ZFYVE1	0,695217	5,050368	2,333787	0,062691	0,143768	-5,19204
CHPT1	-0,50468	6,301307	-2,33375	0,062695	0,143768	-5,19209
NDUFA7	-1,32035	5,045433	-2,33333	0,062729	0,143824	-5,19267
SLC17A9	-1,36249	3,535325	-2,33268	0,062782	0,143921	-5,19356
TIMM22	0,667419	5,522711	2,331382	0,062888	0,144142	-5,19534
RNASET2	-0,76798	7,607976	-2,33047	0,062963	0,14429	-5,19659
ZNF331	0,518376	6,890766	2,32971	0,063025	0,144409	-5,19763
SNRPB2	0,310504	9,576342	2,328744	0,063105	0,144547	-5,19896
BTAFA1	0,409582	8,042912	2,328728	0,063106	0,144547	-5,19898
ZNF17	0,553019	4,890168	2,328488	0,063126	0,144569	-5,19931
MTF1	-0,40923	7,158481	-2,32786	0,063177	0,144664	-5,20017
PGK1	-0,66815	10,16246	-2,32766	0,063194	0,144679	-5,20045
PSMC3	-0,49953	5,754503	-2,32489	0,063422	0,145172	-5,20424
EIF4E3	-0,33525	6,908377	-2,3248	0,06343	0,145172	-5,20437
AIMP1	0,41834	7,688124	2,324201	0,063479	0,1452	-5,20519
FAM172A	0,330367	7,845617	2,324199	0,063479	0,1452	-5,20519
ETV7	-0,68698	4,977236	-2,3242	0,06348	0,1452	-5,20519
TIFA	0,377677	7,427699	2,323932	0,063501	0,1452	-5,20556
AKIRIN1	0,366077	7,527265	2,323912	0,063503	0,1452	-5,20558
ANKRD49	0,330238	8,651949	2,323811	0,063511	0,1452	-5,20572
LDHC	3,114765	1,557383	2,323778	0,063514	0,1452	-5,20577
EAF1	0,371853	7,419022	2,32339	0,063546	0,145236	-5,2063
RABEP1	0,323522	8,21274	2,32334	0,06355	0,145236	-5,20637
TMEM241	1,246818	3,730719	2,32249	0,063621	0,145374	-5,20753
USP14	0,359077	8,115589	2,322193	0,063645	0,145406	-5,20794

OR5AU1	3,452517	1,726259	2,321511	0,063702	0,145494	-5,20887
PPCS	-0,48245	8,273771	-2,32148	0,063704	0,145494	-5,20891
YEATS4	-0,38611	7,51478	-2,3212	0,063728	0,145495	-5,2093
SLC35D2	-0,98672	5,38853	-2,32118	0,06373	0,145495	-5,20933
ATF4	0,361465	9,793605	2,321105	0,063736	0,145495	-5,20943
HPS5	0,398493	7,083155	2,320501	0,063786	0,145564	-5,21026
PRR7	1,677474	3,594332	2,320494	0,063787	0,145564	-5,21027
POLDIP2	0,469408	5,696984	2,320098	0,06382	0,145616	-5,21081
SLC6A12	-2,07144	2,03572	-2,31929	0,063887	0,145746	-5,21192
ELOVL7	1,676582	1,894933	2,318677	0,063938	0,145838	-5,21276
PLEKHM2	-0,64204	7,10678	-2,31806	0,06399	0,145933	-5,21361
VTRNA1-3	3,007456	1,503728	2,317174	0,064063	0,146077	-5,21482
HOXB2	0,35873	5,670267	2,316357	0,064132	0,146187	-5,21594
C12orf54	2,773976	1,386988	2,31635	0,064132	0,146187	-5,21595
CACNA1B	2,631606	1,315803	2,315879	0,064172	0,146254	-5,2166
NR4A1	1,409606	3,340433	2,315718	0,064185	0,146256	-5,21682
CLTC	-0,33042	9,428527	-2,3155	0,064203	0,146256	-5,21711
GUF1	0,836718	6,012828	2,315497	0,064204	0,146256	-5,21712
UGT2B15	1,666667	1,607309	2,31505	0,064241	0,146317	-5,21773
HACE1	0,464474	5,891121	2,314676	0,064272	0,146365	-5,21825
WDR12	-0,62914	6,020789	-2,31415	0,064317	0,146443	-5,21897
MRPL17	-0,79104	5,171207	-2,31392	0,064335	0,146455	-5,21928
FUT11	-0,45476	7,723737	-2,31383	0,064343	0,146455	-5,2194
MBNL3	0,331383	7,834902	2,313601	0,064362	0,146476	-5,21972
CD3G	0,355933	9,735302	2,313326	0,064386	0,146491	-5,2201
MBTPS2	-0,55268	4,301051	-2,31291	0,06442	0,146491	-5,22066
OTOR	2,352965	1,704803	2,312841	0,064426	0,146491	-5,22076
RASL12	2,352965	1,704803	2,312841	0,064426	0,146491	-5,22076
TMEM8A	-0,94811	7,321377	-2,31259	0,064447	0,146491	-5,2211
ZBTB22	-0,64161	5,643193	-2,3123	0,064471	0,146491	-5,2215
ARMC12	2,163951	1,081976	2,312167	0,064483	0,146491	-5,22169
BHMT	2,163951	1,081976	2,312167	0,064483	0,146491	-5,22169
COL1A1	2,163951	1,081976	2,312167	0,064483	0,146491	-5,22169
RPL23AP64	2,163951	1,081976	2,312167	0,064483	0,146491	-5,22169
SLC3A1	2,163951	1,081976	2,312167	0,064483	0,146491	-5,22169
TECRL	1,881285	1,802297	2,310648	0,064611	0,146741	-5,22377
C11orf80	1,733224	1,866612	2,310612	0,064614	0,146741	-5,22382
DHRS12	-1,02346	3,675683	-2,31041	0,064631	0,146757	-5,2241
PFN2	1,322526	4,59919	2,310127	0,064655	0,146787	-5,22448
UBXN7	0,33556	9,015143	2,309723	0,064689	0,146788	-5,22504
C10orf55	-2,05664	1,028321	-2,30943	0,064713	0,146788	-5,22544
KCP	2,056642	1,028321	2,309431	0,064713	0,146788	-5,22544
NOVA2	2,056642	1,028321	2,309431	0,064713	0,146788	-5,22544
PRODH2	2,056642	1,028321	2,309431	0,064713	0,146788	-5,22544
MRPL2	-0,74981	4,596682	-2,30938	0,064717	0,146788	-5,2255
ZNF707	0,674123	3,444371	2,309225	0,064731	0,146795	-5,22572
MRPL50	0,376271	6,924455	2,308123	0,064824	0,146981	-5,22723
ZCCHC4	0,744746	5,076465	2,308009	0,064834	0,146981	-5,22739
TYW3	0,36661	7,507085	2,306153	0,064991	0,147313	-5,22993
GGT5	-1,93578	0,967892	-2,30559	0,065038	0,147373	-5,2307
PLSCR2	1,935785	0,967892	2,305595	0,065038	0,147373	-5,2307
SRI	-0,30354	7,29736	-2,30539	0,065056	0,147389	-5,23098

ZNF646	-0,82625	4,2111	-2,3045	0,065131	0,147537	-5,2322
CETP	2,107309	1,053655	2,304214	0,065156	0,147568	-5,23259
MED6	0,365193	7,181749	2,303765	0,065194	0,147631	-5,23321
TMEM158	-2,37846	3,565658	-2,30352	0,065215	0,147655	-5,23355
FRS3	-1,72331	0,861654	-2,30318	0,065243	0,147672	-5,23401
SEC14L2	-1,72331	0,861654	-2,30318	0,065243	0,147672	-5,23401
NAV3	-1,34325	1,866612	-2,30231	0,065317	0,147816	-5,2352
ATP6VOD1	-0,70963	6,056524	-2,30169	0,065371	0,147869	-5,23606
C2orf91	2,376428	1,188214	2,301547	0,065383	0,147869	-5,23625
ICAM4	2,376428	1,188214	2,301547	0,065383	0,147869	-5,23625
SLC12A1	2,376428	1,188214	2,301547	0,065383	0,147869	-5,23625
NSRP1	0,458597	8,509103	2,301152	0,065416	0,147922	-5,23679
SNHG11	1,912322	2,258458	2,299928	0,065521	0,148135	-5,23847
VRK2	-1,92292	6,034036	-2,29965	0,065545	0,148165	-5,23885
STT3B	-0,31886	8,572157	-2,29937	0,065569	0,148195	-5,23923
C6orf52	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
CHST6	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
CLVS2	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
COL25A1	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
SFN	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
WT1-AS	1,992427	0,996213	2,298234	0,065666	0,148273	-5,24079
SRP19	0,4471	7,845487	2,297877	0,065697	0,148319	-5,24128
BFAR	0,448717	6,79631	2,297754	0,065707	0,148319	-5,24145
ACAD10	0,721296	5,469071	2,296892	0,065781	0,148414	-5,24263
SYNJ2	0,334185	6,879756	2,296754	0,065793	0,148414	-5,24282
BYSL	-1,99243	2,436856	-2,29633	0,065829	0,148414	-5,2434
B4GALNT4	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
BEST3	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
BHMT2	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
KCND3	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
KCTD8	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
SLC1A6	1,547952	0,773976	2,29616	0,065844	0,148414	-5,24363
TXNDC16	-1,00371	4,336959	-2,29593	0,065864	0,148435	-5,24395
CEP85L	0,376501	8,538585	2,29552	0,065899	0,148491	-5,24451
CSNK1G1	0,419801	6,753958	2,294832	0,065958	0,148601	-5,24545
SORBS1	1,578989	2,758458	2,294703	0,06597	0,148602	-5,24563
PMVK	-0,63726	4,641039	-2,29409	0,066022	0,148697	-5,24647
MCTP1	-0,77666	6,953251	-2,2925	0,06616	0,148983	-5,24865
C15orf39	-2,70008	3,943825	-2,29237	0,066171	0,148984	-5,24882
DHDDS	-1,87817	4,823965	-2,29175	0,066224	0,149081	-5,24968
CDC42	-1,95542	2,562671	-2,29132	0,066262	0,149141	-5,25027
CRIP2	-1,63563	0,817815	-2,29037	0,066344	0,149208	-5,25157
RAVER2	-1,63563	0,817815	-2,29037	0,066344	0,149208	-5,25157
SLC25A35	-1,63563	0,817815	-2,29037	0,066344	0,149208	-5,25157
ZNF443	-1,63563	0,817815	-2,29037	0,066344	0,149208	-5,25157
ADAMTSL4	-1,63563	0,817815	-2,29037	0,066344	0,149208	-5,25157
ZBTB40	0,481269	6,995192	2,289663	0,066405	0,149322	-5,25254
HYAL3	-1,44064	1,248642	-2,289	0,066463	0,149428	-5,25345
PARP8	0,389352	8,562061	2,288691	0,06649	0,149464	-5,25387
MFAP3	0,758912	6,389497	2,28855	0,066502	0,149468	-5,25407
ABCG8	2,043094	1,021547	2,288107	0,066541	0,149507	-5,25468
LEFTY1	2,043094	1,021547	2,288107	0,066541	0,149507	-5,25468

NAA50	0,351377	8,029532	2,287578	0,066587	0,149587	-5,2554
YOD1	-1,56127	4,121423	-2,287	0,066637	0,149676	-5,25619
SLC39A9	0,369153	7,318638	2,286807	0,066654	0,14969	-5,25646
GABPA	0,45168	6,841815	2,286368	0,066692	0,149745	-5,25706
ESYT1	-0,73167	6,675155	-2,28628	0,066699	0,149745	-5,25718
STARD10	-1,86165	1,704803	-2,28532	0,066783	0,14991	-5,2585
MAK	1,63563	1,346136	2,285183	0,066795	0,149913	-5,25868
MAPK6	-0,59632	6,851656	-2,28487	0,066823	0,149951	-5,25912
ESRRG	1,343249	2,0616	2,284625	0,066844	0,149975	-5,25945
FBXO46	0,30975	6,71772	2,284306	0,066872	0,150013	-5,25989
FLCN	-0,2994	6,996649	-2,28368	0,066927	0,150101	-5,26075
MED15	0,418086	6,801461	2,283615	0,066932	0,150101	-5,26083
SLC2A1	0,554324	6,763241	2,283416	0,06695	0,150116	-5,26111
MFN2	-0,29917	7,28542	-2,28322	0,066967	0,150132	-5,26138
PPP3R1	0,390491	8,350491	2,28296	0,06699	0,150158	-5,26173
ZBTB8OS	0,351412	7,07055	2,282796	0,067004	0,150167	-5,26196
MAN1A1	-0,80933	6,743197	-2,28224	0,067053	0,150252	-5,26272
ABCC6P1	2,214619	2,497284	2,282057	0,067069	0,150264	-5,26297
EHMT2	0,312647	6,432513	2,281501	0,067117	0,15035	-5,26373
NUDT21	0,35228	9,210514	2,280402	0,067214	0,150542	-5,26524
MAML2	0,407633	7,947183	2,279324	0,067309	0,15073	-5,26672
CCNF	-2,29827	2,256446	-2,27914	0,067325	0,150743	-5,26697
PIM1	-0,33278	9,558882	-2,27898	0,067339	0,15075	-5,26719
ZNF148	0,292022	9,514937	2,278533	0,067378	0,150813	-5,2678
BRAF	0,35818	7,732712	2,278421	0,067388	0,150813	-5,26795
LIN9	0,802641	5,126452	2,278107	0,067416	0,150851	-5,26839
PLK4	-1,60245	1,575202	-2,27778	0,067445	0,150891	-5,26883
SNPH	-1,86165	1,866612	-2,27724	0,067493	0,150975	-5,26958
RRM1	-0,4867	8,535731	-2,27708	0,067507	0,150983	-5,2698
STARD3NL	-2,1169	5,083166	-2,27682	0,06753	0,150988	-5,27015
RNF121	-0,36103	5,218969	-2,27681	0,067531	0,150988	-5,27017
PPP1R15B	-0,32152	8,231747	-2,27666	0,067544	0,150994	-5,27037
WDR4	0,425964	5,669242	2,275285	0,067665	0,151089	-5,27225
SNX9	0,348404	7,379816	2,273771	0,067799	0,151089	-5,27433
RAB22A	-0,37003	8,344022	-2,27358	0,067817	0,151089	-5,2746
VPS35	-0,32299	8,644438	-2,27339	0,067834	0,151089	-5,27486
IL36G	1,709761	0,854881	2,27316	0,067854	0,151089	-5,27517
SCLY	-1,70976	0,854881	-2,27316	0,067854	0,151089	-5,27517
PDE10A	1,709761	1,854881	2,27316	0,067854	0,151089	-5,27517
SUGT1P3	-1,70976	0,854881	-2,27316	0,067854	0,151089	-5,27517
ZNF205	-1,70976	0,854881	-2,27316	0,067854	0,151089	-5,27517
APBA1	-1,70976	0,854881	-2,27316	0,067854	0,151089	-5,27517
NAIP	-1,70976	0,854881	-2,27316	0,067854	0,151089	-5,27517
DEF6	0,562506	6,400543	2,272674	0,067897	0,151089	-5,27583
CLVS1	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
DNAH3	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
DNTT	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
EPHA8	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
FADS6	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
GABBR2	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
HHIPL1	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
HIST1H4I	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616

IL13	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
MAP3K15	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
MMRN2	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
NAP1L6	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
NDN	-1,44064	0,720321	-2,27243	0,067918	0,151089	-5,27616
NR5A2	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
RAET1E	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
SHE	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
SLC8A2	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
TFAMP1	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
TMPPRS11I	1,440643	0,720321	2,272434	0,067918	0,151089	-5,27616
MTMR12	-0,44642	6,842642	-2,27167	0,067986	0,151217	-5,27721
PAK4	-1,40961	1,37147	-2,27112	0,068035	0,151302	-5,27796
PRELID2	1,442864	2,973061	2,270981	0,068047	0,151305	-5,27815
PRKX	0,366534	8,68746	2,270788	0,068064	0,15132	-5,27842
NDUFB3	0,320193	7,955123	2,27062	0,068079	0,151329	-5,27865
NDUFS4	0,36563	7,322054	2,269241	0,068202	0,151557	-5,28054
SMPD1	-0,53644	5,695725	-2,26916	0,06821	0,151557	-5,28065
DOLPP1	-2,71764	4,132796	-2,26911	0,068214	0,151557	-5,28072
UBA1	-0,39035	5,833427	-2,26876	0,068246	0,151603	-5,2812
XRN2	0,311294	9,244305	2,268573	0,068262	0,151616	-5,28146
BCKDK	-2,44349	3,662387	-2,26806	0,068308	0,151694	-5,28216
MLLT1	0,434726	6,573974	2,267455	0,068362	0,15179	-5,28299
NKRF	0,514435	6,207581	2,266798	0,068421	0,151897	-5,28389
CDC42BPG	1,873591	3,262555	2,26569	0,06852	0,152093	-5,28541
GZMH	0,462618	7,549257	2,265325	0,068553	0,152105	-5,28591
GOLGA3	0,358266	8,223928	2,265293	0,068556	0,152105	-5,28595
SH3GLB1	0,317732	8,636726	2,265196	0,068564	0,152105	-5,28609
TRPV2	-2,86816	4,334227	-2,26515	0,068568	0,152105	-5,28614
YPEL2	0,294134	7,253495	2,264693	0,06861	0,152173	-5,28677
CSNK2A1	0,306334	8,503818	2,263791	0,068691	0,152314	-5,28801
CHI3L2	1,329501	3,323844	2,263745	0,068695	0,152314	-5,28807
TSPAN32	-1,87426	3,639974	-2,26355	0,068712	0,152315	-5,28834
RNASEH2C	-0,31994	5,646918	-2,2635	0,068717	0,152315	-5,28841
EPRS	0,295929	9,340655	2,263282	0,068736	0,152334	-5,28871
CCDC85B	-2,03826	2,793107	-2,2631	0,068753	0,152347	-5,28896
OR1A1	2,547952	1,273976	2,262649	0,068793	0,152389	-5,28958
SPESP1	2,547952	1,273976	2,262649	0,068793	0,152389	-5,28958
RNF215	2,193105	2,096553	2,261959	0,068855	0,152503	-5,29052
CREG2	2,238899	2,721901	2,261002	0,068942	0,15267	-5,29183
CHTOP	0,322926	8,328867	2,260649	0,068974	0,152717	-5,29232
EID3	0,951216	5,17845	2,260267	0,069008	0,152769	-5,29284
TTC16	-1,96896	0,984482	-2,25898	0,069125	0,152997	-5,2946
FAM162A	-0,36784	8,166756	-2,25889	0,069133	0,152997	-5,29473
B3GALT5	1,797439	1,232053	2,258729	0,069147	0,153005	-5,29495
HMOX1	-0,58657	7,657182	-2,25833	0,069184	0,153023	-5,2955
PPP1R7	0,34317	6,888247	2,256954	0,069308	0,153023	-5,29738
KIR3DL2	1,365308	2,725748	2,256381	0,06936	0,153023	-5,29817
GPCPD1	-0,28822	8,537552	-2,25631	0,069367	0,153023	-5,29826
SYNGR3	-1,05664	1,056642	-2,25578	0,069415	0,153023	-5,299
C1orf53	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
C4BPB	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299

COL23A1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
CTGF	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
EDA	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
FAM57A	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
FSTL1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
FUT7	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
GABRG1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
IRGM	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
LDHD	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
MIR3682	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
OGN	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
PLS3	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
TMC4	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
PRKD1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
PTGDR2	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
RUSC1-AS1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
STX16-NPE1	-1,05664	0,528321	-2,25578	0,069415	0,153023	-5,299
SPAM1	2,163951	2,081976	2,254223	0,069557	0,153311	-5,30113
GOLGB1	0,35307	9,272981	2,253203	0,06965	0,153492	-5,30252
NHP2	-0,29396	5,615759	-2,25202	0,069758	0,153671	-5,30415
LRRC4C	1,773976	0,886988	2,251954	0,069764	0,153671	-5,30423
SMCR5	1,773976	0,886988	2,251954	0,069764	0,153671	-5,30423
STARD3	0,445016	5,859077	2,250925	0,069858	0,153855	-5,30565
RBFA	-2,07736	3,52516	-2,25013	0,069931	0,153992	-5,30674
QRSL1	0,585168	6,331771	2,249955	0,069947	0,153996	-5,30698
BNIP3	-0,84523	6,936918	-2,24987	0,069954	0,153996	-5,30709
TTC21A	1,578989	3,374457	2,249568	0,069982	0,154032	-5,30751
FDXR	-1,88512	1,716535	-2,24764	0,070159	0,154398	-5,31015
TYW1	0,492313	6,109547	2,245925	0,070317	0,154721	-5,3125
MBNL2	0,375046	6,780706	2,245546	0,070352	0,154774	-5,31302
LHPP	-1,88129	2,607309	-2,24506	0,070397	0,154849	-5,31369
SLCO5A1	-1,50994	2,195613	-2,24466	0,070434	0,154907	-5,31424
MON1A	-1,7828	2,476363	-2,2441	0,070486	0,154996	-5,315
MAPKAPK2	0,319148	8,727885	2,243416	0,070549	0,15507	-5,31594
EDNRB	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
EME1	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
FAM53A	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
KRT2	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
PVRIG	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
RELL2	-1,52832	0,76416	-2,24284	0,070601	0,15507	-5,31672
VAMP1	-1,09532	4,504447	-2,24278	0,070607	0,15507	-5,31681
ANKRD36	0,656494	7,182247	2,242633	0,070621	0,155077	-5,31701
MEIS2	1,848107	2,388159	2,241627	0,070714	0,155257	-5,31839
ZNF823	-1,84327	1,695613	-2,24148	0,070728	0,155263	-5,31859
TCF19	-2,1565	2,645061	-2,2412	0,070754	0,155297	-5,31898
CDX2	2,204903	1,102452	2,240376	0,07083	0,155322	-5,3201
CPLX4	2,204903	1,102452	2,240376	0,07083	0,155322	-5,3201
MT1H	2,204903	1,102452	2,240376	0,07083	0,155322	-5,3201
POM121L9	2,204903	1,102452	2,240376	0,07083	0,155322	-5,3201
SCN4A	2,204903	1,102452	2,240376	0,07083	0,155322	-5,3201
FOXP3	-1,616	2,355952	-2,24036	0,070832	0,155322	-5,32012
APOO	-1,90475	2,72635	-2,23951	0,070911	0,155457	-5,3213

IL1RAP	-1,3632	5,175534	-2,23946	0,070915	0,155457	-5,32136
EPG5	0,382894	7,665549	2,238881	0,070969	0,155532	-5,32215
FBXO41	-1,9183	2,840433	-2,23886	0,070972	0,155532	-5,32218
LMF2	-0,7002	5,400649	-2,23735	0,071112	0,155816	-5,32425
MTX3	0,388923	6,001991	2,234961	0,071335	0,155824	-5,32752
ZIC5	2,120857	2,770189	2,23363	0,07146	0,155824	-5,32935
TJP2	0,766281	4,071388	2,233513	0,071471	0,155824	-5,32951
CENPO	0,602452	3,024534	2,233453	0,071476	0,155824	-5,32959
TRIM21	-0,46123	7,046769	-2,23253	0,071563	0,155824	-5,33085
CRK	-0,44429	6,517015	-2,23233	0,071581	0,155824	-5,33112
PUF60	0,396628	7,208856	2,232202	0,071594	0,155824	-5,3313
HPGD	-0,66566	4,514807	-2,23171	0,07164	0,155824	-5,33198
TMCO1	-0,37168	8,966037	-2,23148	0,071661	0,155824	-5,33229
MXRA8	2,655261	1,327631	2,231062	0,071701	0,155824	-5,33287
UBE2I	0,378457	9,089461	2,231037	0,071703	0,155824	-5,3329
HCFC2	-0,46169	6,850486	-2,2308	0,071726	0,155824	-5,33323
ZNF800	0,577835	8,354865	2,230704	0,071735	0,155824	-5,33336
TMEM141	-1,03565	5,203825	-2,23059	0,071746	0,155824	-5,33352
NAA25	0,517915	6,864003	2,230332	0,07177	0,155824	-5,33387
ABCA17P	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
C6orf132	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
CLMP	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
CNPY1	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
EBF2	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
FAM149A	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
KCND1	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
MSTN	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
NR2E3	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
PPEF2	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
TMEM233	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
JAM2	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
MIR3660	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
PKLR	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
RIBC2	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
SEZ6L2	1,830618	0,915309	2,229923	0,071808	0,155824	-5,33443
FBXO31	0,823788	5,244178	2,229916	0,071809	0,155824	-5,33444
CD248	-1,19499	0,597494	-2,2299	0,07181	0,155824	-5,33446
PNMA3	-1,19499	0,597494	-2,2299	0,07181	0,155824	-5,33446
ACAN	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
ATP6V1C2	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
C5orf60	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CAMK2B	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CARD14	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CCDC17	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CDH9	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CNGB3	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
CPO	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
FGF7	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
GRIK1-AS1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
LDHAL6A	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
LINC00472	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
LRRN2	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446

MPV17L	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
NEU4	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
OSCP1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
PC	-1,19499	0,597494	-2,2299	0,07181	0,155824	-5,33446
PNLDC1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
PNLIPRP1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
PRSS35	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
PRSS38	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
PXT1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
ROPN1	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
SIM2	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
SUSD2	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
SYTL4	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
TEX14	-1,19499	0,597494	-2,2299	0,07181	0,155824	-5,33446
VWA3A	1,194988	0,597494	2,229901	0,07181	0,155824	-5,33446
ACD	-0,67831	3,865594	-2,22917	0,071879	0,15595	-5,33546
LMO3	2,456411	2,08986	2,229003	0,071895	0,15596	-5,33569
C6orf89	0,279353	8,015017	2,228439	0,071948	0,156051	-5,33646
FBXO8	-0,44064	5,318385	-2,22788	0,072001	0,156142	-5,33723
NUDCD2	0,292436	7,400453	2,226391	0,072142	0,156405	-5,33927
CCDC124	-1,12901	3,238626	-2,22636	0,072144	0,156405	-5,33931
PLCL2	0,339565	7,658658	2,22573	0,072204	0,15649	-5,34017
C5orf15	-0,59032	7,279283	-2,22572	0,072206	0,15649	-5,34019
COG2	0,573507	6,582335	2,225575	0,072219	0,156495	-5,34038
EIF2B3	-0,78724	5,490006	-2,22545	0,072231	0,156497	-5,34056
KLF16	-0,65657	4,631832	-2,22343	0,072423	0,156888	-5,34332
HSPA4	0,536967	8,293392	2,22262	0,0725	0,157031	-5,34443
HDX	-0,94933	3,022618	-2,22235	0,072526	0,157051	-5,34481
MED24	0,478872	6,693936	2,22229	0,072531	0,157051	-5,34488
ITGA4	0,421424	7,323183	2,22177	0,072581	0,157134	-5,3456
HRH2	-1,47557	3,826712	-2,22008	0,072742	0,157459	-5,34791
CTNND1	-0,65418	6,721172	-2,21967	0,072781	0,157519	-5,34847
GNPAT	0,438691	6,88639	2,21909	0,072836	0,157615	-5,34927
SNORD116	1,464106	1,39872	2,218547	0,072888	0,157663	-5,35001
ZNF239	1,464106	1,39872	2,218547	0,072888	0,157663	-5,35001
ANGPT2	2,346362	3,521312	2,218508	0,072892	0,157663	-5,35006
CHMP2A	-0,48465	6,902372	-2,21818	0,072923	0,157707	-5,35051
ARL10	0,421291	5,489082	2,217974	0,072943	0,157726	-5,3508
ECHS1	-1,88794	6,00807	-2,21736	0,073002	0,157806	-5,35163
CBFB	-0,27703	8,008604	-2,21735	0,073003	0,157806	-5,35164
FBXW11	0,492778	7,123875	2,216931	0,073043	0,157869	-5,35222
RBM3	-0,35439	9,262421	-2,21661	0,073074	0,157893	-5,35267
ZNF639	0,350374	7,07192	2,216582	0,073077	0,157893	-5,3527
SCNN1D	1,74294	1,733124	2,216121	0,073121	0,157965	-5,35334
BEST1	-1,57416	2,089375	-2,21437	0,073289	0,158304	-5,35573
ACTBL2	2,440643	1,220321	2,213723	0,073352	0,158391	-5,35662
PHOX2B	2,440643	1,220321	2,213723	0,073352	0,158391	-5,35662
NCK1	0,313454	7,614441	2,213267	0,073396	0,158461	-5,35724
ZNF879	1,622083	2,672696	2,212572	0,073463	0,158582	-5,3582
BEND7	1,746771	1,647362	2,212377	0,073481	0,158598	-5,35846
RALGAPB	0,342628	7,843037	2,211357	0,07358	0,158787	-5,35986
EXT1	0,706765	4,347714	2,211231	0,073592	0,158788	-5,36003

MRPL49	0,342952	6,291701	2,210976	0,073617	0,158818	-5,36038
C17orf75	0,630608	6,248339	2,210034	0,073708	0,158925	-5,36167
XPNPEP1	-0,66406	5,995797	-2,21002	0,07371	0,158925	-5,3617
EDN2	1,602452	0,801226	2,209646	0,073745	0,158925	-5,3622
HOXC8	1,602452	0,801226	2,209646	0,073745	0,158925	-5,3622
MPPED2	1,602452	1,801226	2,209646	0,073745	0,158925	-5,3622
NME5	1,602452	0,801226	2,209646	0,073745	0,158925	-5,3622
SKOR1	1,602452	0,801226	2,209646	0,073745	0,158925	-5,3622
OAS2	-0,40376	7,184501	-2,20941	0,073768	0,158951	-5,36253
TMEM86B	0,751605	4,543744	2,209226	0,073786	0,158965	-5,36278
HIST1H4B	1,881285	0,940643	2,208425	0,073864	0,159108	-5,36388
IL11RA	0,478581	6,853005	2,206816	0,07402	0,15942	-5,36608
C1orf43	0,322668	8,713017	2,20551	0,074147	0,15967	-5,36787
CCDC65	-1,61217	2,408535	-2,20537	0,074161	0,159674	-5,36805
PTPRQ	1,427095	2,877499	2,205085	0,074189	0,159691	-5,36845
CRX	1,848107	1,452374	2,204931	0,074204	0,159691	-5,36866
OR2C3	1,848107	1,452374	2,204931	0,074204	0,159691	-5,36866
ZNF57	-1,99243	1,996213	-2,20483	0,074213	0,159691	-5,3688
NGLY1	-0,42845	7,121925	-2,20468	0,074228	0,159698	-5,369
ANTXR2	-0,38649	7,489511	-2,20357	0,074336	0,159906	-5,37052
NUDT22	-0,57199	5,608379	-2,20313	0,07438	0,159976	-5,37113
PAFAH1B3	-1,70976	2,188214	-2,20296	0,074396	0,159986	-5,37135
TMEM192	-0,35575	7,60658	-2,20268	0,074424	0,160022	-5,37175
RARA	0,320484	6,810229	2,202096	0,074481	0,16012	-5,37254
ING3	-0,2725	8,098107	-2,20149	0,07454	0,160206	-5,37337
RBM26	0,312463	9,974909	2,201381	0,074551	0,160206	-5,37352
PGAP3	-2,32909	3,433662	-2,20134	0,074555	0,160206	-5,37358
HRAS	-1,52832	2,99764	-2,20115	0,074573	0,160221	-5,37383
TMEM18	-0,33474	6,543329	-2,19914	0,074771	0,160612	-5,37659
WBP11	0,304126	8,440071	2,199064	0,074778	0,160612	-5,37669
GVINP1	0,393845	7,56798	2,198849	0,074799	0,160634	-5,37699
CDC42BPA	1,278403	3,608165	2,198616	0,074822	0,160648	-5,37731
ACO1	-0,60778	5,373631	-2,19843	0,07484	0,160648	-5,37756
RBBP8	-0,45872	6,433497	-2,19839	0,074844	0,160648	-5,37761
MMS22L	0,625064	6,083608	2,198316	0,074852	0,160648	-5,37772
COPS5	0,30852	7,051594	2,197959	0,074887	0,1607	-5,37821
ALAD	-1,96178	4,981359	-2,19744	0,074938	0,160785	-5,37892
CCDC43	-0,30709	6,76184	-2,1973	0,074952	0,16079	-5,37911
RNF5	-1,64103	4,245889	-2,19709	0,074972	0,160809	-5,37939
FAM129C	0,757789	5,45779	2,196654	0,075016	0,160878	-5,37999
ARHGAP21	-0,56217	6,487518	-2,19633	0,075048	0,160901	-5,38044
CHCHD5	-2,02561	2,012803	-2,19631	0,075049	0,160901	-5,38046
SPEF2	0,738165	6,398684	2,195445	0,075135	0,16106	-5,38165
OSGEPL1	0,722808	5,461641	2,19484	0,075195	0,161164	-5,38248
SLU7	0,301274	9,444902	2,194343	0,075244	0,161242	-5,38316
HAGH	-0,4076	7,005503	-2,19424	0,075254	0,161242	-5,3833
TMEM87A	-0,41772	8,798105	-2,19361	0,075317	0,161352	-5,38417
URGCP	0,428865	5,318349	2,192654	0,075411	0,16153	-5,38547
SLC11A1	-0,81199	4,218231	-2,19243	0,075434	0,161554	-5,38578
ZNHIT6	0,364214	7,792635	2,192162	0,07546	0,161586	-5,38614
SLC9A3R1	0,490741	7,190689	2,190487	0,075626	0,161918	-5,38844
HIRIP3	0,879143	3,603523	2,190235	0,075652	0,161947	-5,38878

SLC30A9	0,495615	6,552379	2,189935	0,075681	0,161986	-5,38919
SLC9B1	2,204511	2,983541	2,189255	0,075749	0,162107	-5,39012
PHF6	0,265442	7,9843	2,18893	0,075782	0,162133	-5,39057
GRHPR	-0,79421	6,092025	-2,1889	0,075785	0,162133	-5,39061
RUVBL2	-2,27731	3,245966	-2,1883	0,075845	0,162237	-5,39144
RAD23B	-0,35524	8,535692	-2,18769	0,075905	0,162342	-5,39226
FASTK	0,540915	6,769242	2,187397	0,075935	0,16238	-5,39267
COL6A3	0,968964	1,874457	2,186833	0,075991	0,162445	-5,39344
PTPRK	1,464106	3,367683	2,1868	0,075994	0,162445	-5,39348
XPOT	0,385176	6,770136	2,186751	0,075999	0,162445	-5,39355
AGTPBP1	0,337295	8,071558	2,186283	0,076046	0,16252	-5,39419
LPAR5	0,856772	4,681266	2,186101	0,076064	0,162535	-5,39444
MIR567	1,547952	2,163951	2,185712	0,076103	0,162581	-5,39497
LYPLA2	-0,55658	6,770027	-2,18555	0,076119	0,162581	-5,39519
NDUFA11	-0,35656	6,728853	-2,18554	0,07612	0,162581	-5,39521
PTTG1	-2,21845	3,323844	-2,18464	0,07621	0,162748	-5,39644
CNOT3	0,540936	4,463573	2,184372	0,076237	0,162781	-5,39681
PPP1R26	-2,16395	1,081976	-2,18426	0,076248	0,162781	-5,39696
TNIP3	0,750181	4,737357	2,183839	0,076291	0,162847	-5,39754
F13A1	2,40098	2,83612	2,183284	0,076347	0,162941	-5,3983
MRPS21	0,401696	7,684807	2,183071	0,076368	0,162962	-5,39859
SPP1	-4,06711	6,280429	-2,1827	0,076406	0,162999	-5,3991
NUP188	-1,07121	5,859334	-2,18256	0,076419	0,162999	-5,39928
CHRA1	-0,41512	6,535428	-2,18255	0,07642	0,162999	-5,3993
TMEM129	0,577154	6,1993	2,182222	0,076453	0,163046	-5,39975
NEIL1	0,846021	3,740105	2,182049	0,076471	0,163059	-5,39999
PARP10	-2,41663	3,570801	-2,18119	0,076557	0,163218	-5,40116
BTBD6	-0,47277	5,105993	-2,181	0,076577	0,163235	-5,40143
EIF2AK4	-0,85529	5,861818	-2,18039	0,076638	0,163341	-5,40226
MFSD6	-0,41167	6,669553	-2,17916	0,076763	0,163582	-5,40395
GTF2IRD1	0,882975	4,153391	2,178804	0,076798	0,163633	-5,40443
STK33	2,321928	2,022618	2,178239	0,076855	0,163727	-5,4052
POLR2J3	-1,19499	0,930827	-2,17792	0,076888	0,163727	-5,40564
APOF	1,666667	0,833333	2,177568	0,076923	0,163727	-5,40612
CLDN18	1,666667	0,833333	2,177568	0,076923	0,163727	-5,40612
HEPH	1,666667	0,833333	2,177568	0,076923	0,163727	-5,40612
RRAD	1,666667	0,833333	2,177568	0,076923	0,163727	-5,40612
TM4SF1	1,666667	0,833333	2,177568	0,076923	0,163727	-5,40612
SSH3	1,251346	3,284766	2,177425	0,076938	0,163733	-5,40632
PRSS23	-0,95906	5,729628	-2,17712	0,076969	0,163775	-5,40674
AQP1	2,376428	1,188214	2,176496	0,077032	0,163815	-5,40759
LDHAL6B	2,376428	1,188214	2,176496	0,077032	0,163815	-5,40759
XRR1	0,404763	5,39588	2,176422	0,077039	0,163815	-5,40769
ARHGDI1	-0,32207	9,757804	-2,17577	0,077105	0,163815	-5,40858
ING4	0,445625	6,338569	2,175751	0,077107	0,163815	-5,40861
CAGE1	2,547952	1,273976	2,175026	0,077181	0,163815	-5,4096
BST2	-0,30882	7,632537	-2,17489	0,077195	0,163815	-5,40979
DHX9	0,310156	9,128135	2,174762	0,077208	0,163815	-5,40996
EGR3	-0,62178	5,552393	-2,17456	0,077228	0,163815	-5,41023
FKBP14	-2,26617	3,423208	-2,17435	0,077249	0,163815	-5,41052
CATSPER2	1,366512	2,480695	2,174129	0,077272	0,163815	-5,41083
PIGB	-0,46338	5,394136	-2,17387	0,077299	0,163815	-5,41118

PAF1	0,450588	6,174444	2,173636	0,077322	0,163815	-5,4115
ITPK1	-3,17434	4,977143	-2,17358	0,077328	0,163815	-5,41157
LCAT	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
NAGS	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
ABHD1	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
BPIFA4P	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
C5orf38	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
C5orf47	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
DENND2A	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
DNAJB13	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
GJA8	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
MYO1H	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
PLIN1	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
RHBDL1	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
RPS2P32	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
SLC23A1	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
TNFRSF21	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
TSPAN10	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
VSTM4	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
XG	1,302297	0,651148	2,173169	0,07737	0,163815	-5,41214
ZFP92	-1,3023	0,651148	-2,17317	0,07737	0,163815	-5,41214
KCTD21	-1,87431	2,81844	-2,17288	0,077399	0,163851	-5,41253
ALG11	0,324319	6,659749	2,172249	0,077464	0,163954	-5,4134
ARFGEF1	0,274931	8,294916	2,172179	0,077471	0,163954	-5,41349
ZNF613	-1,64918	2,53435	-2,17198	0,077491	0,163973	-5,41376
RBBP6	0,352102	9,933601	2,171022	0,077589	0,164155	-5,41508
DNAL4	0,492505	6,222672	2,169749	0,077719	0,164406	-5,41682
SRRD	-0,51226	5,022292	-2,16936	0,077759	0,16445	-5,41735
TBC1D25	-1,44417	4,245372	-2,16926	0,07777	0,16445	-5,41749
DSEL	0,861654	1,097494	2,169207	0,077775	0,16445	-5,41756
PRKCI	-0,37232	6,677091	-2,16887	0,077809	0,164477	-5,41802
DPP4	0,786355	5,468359	2,168856	0,077811	0,164477	-5,41804
UBTF	0,336846	7,800455	2,168236	0,077874	0,164586	-5,41889
CXCL2	-1,55536	5,918368	-2,16774	0,077925	0,16467	-5,41957
PRKAR1A	-0,35329	10,53437	-2,16716	0,077985	0,164771	-5,42037
RRAGB	-0,78441	4,190178	-2,16688	0,078014	0,164798	-5,42075
BUD13	0,444883	6,450947	2,166807	0,078021	0,164798	-5,42084
CMC2	0,439738	6,358473	2,166509	0,078052	0,164838	-5,42125
FRMD8	-1,05343	7,47743	-2,16637	0,078066	0,164844	-5,42144
ZNF514	0,993887	4,694351	2,165941	0,07811	0,164912	-5,42203
RPUSD3	-1,52973	4,341973	-2,16518	0,078188	0,165052	-5,42307
MEG8	1,54902	3,433603	2,164858	0,078222	0,165098	-5,42351
POC1B	0,353186	7,362933	2,163867	0,078324	0,165276	-5,42487
IQSEC1	-0,39364	6,776588	-2,16382	0,078329	0,165276	-5,42494
SLC38A9	0,877611	5,625234	2,163326	0,07838	0,16531	-5,42561
SYNJ1	-0,3093	7,02806	-2,16328	0,078385	0,16531	-5,42567
AKT1S1	-0,85631	4,803079	-2,16326	0,078386	0,16531	-5,42569
KIF19	1,015607	3,564445	2,163156	0,078397	0,16531	-5,42584
WDR74	0,777808	4,753926	2,163092	0,078404	0,16531	-5,42593
FANCD2	0,546574	6,14396	2,162882	0,078426	0,165331	-5,42621
POLK	0,291326	7,516913	2,162014	0,078515	0,165496	-5,4274
PIK3C2B	0,647471	4,820184	2,161284	0,078591	0,16563	-5,4284

EMD	0,5242	6,93356	2,160708	0,078651	0,165731	-5,42919
NR3C2	0,394693	6,250075	2,160502	0,078672	0,165731	-5,42947
FAT4	-1,47168	1,26416	-2,15972	0,078753	0,165731	-5,43054
SEMA5A	1,471679	1,26416	2,159722	0,078753	0,165731	-5,43054
PDCD5	-0,48065	7,055616	-2,15965	0,07876	0,165731	-5,43063
CFLAR	0,294492	9,574354	2,158436	0,078886	0,165731	-5,43229
PRMT1	0,423634	6,954976	2,158369	0,078893	0,165731	-5,43239
SSR1	-0,4688	9,325444	-2,15774	0,078959	0,165731	-5,43325
WDR5	0,323802	5,635999	2,157556	0,078978	0,165731	-5,4335
DCPS	-1,24074	4,476673	-2,15746	0,078988	0,165731	-5,43363
FRZB	1,68767	3,220263	2,157398	0,078994	0,165731	-5,43371
EIF2S2	0,306078	8,963455	2,15718	0,079017	0,165731	-5,43401
RNASE2	-0,49514	2,46219	-2,15712	0,079023	0,165731	-5,43409
ARFIP2	-0,5523	4,286601	-2,15702	0,079034	0,165731	-5,43423
SLC35B4	-0,68023	4,886562	-2,1556	0,079181	0,165731	-5,43617
DIP2A	0,356068	8,04885	2,154762	0,079269	0,165731	-5,43732
SERINC5	-0,35844	8,296943	-2,15449	0,079298	0,165731	-5,4377
STK38	0,357588	9,021056	2,154402	0,079307	0,165731	-5,43781
CDKN2D	-0,34669	7,68263	-2,15413	0,079336	0,165731	-5,43818
IKZF4	0,968402	5,948776	2,153666	0,079384	0,165731	-5,43882
CDK6	-0,32718	8,004556	-2,15364	0,079387	0,165731	-5,43886
PPAT	0,561241	6,267378	2,153132	0,07944	0,165731	-5,43955
TMEM161E	0,36525	7,50584	2,152779	0,079477	0,165731	-5,44003
TSPY26P	0,41718	3,062671	2,152476	0,079509	0,165731	-5,44044
ANAPC2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
ARHGEF5	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CD1A	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CLSTN2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
DCLK2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
DNAJC12	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
EPHA7	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
KRT5	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
MOCS1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
MPP2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
OR2T33	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
PLCZ1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
RNF207	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
SLC25A27	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
SLC28A3	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TMEM26	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TTY10	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
VENTX	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
ADH7	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
AGAP5	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
BOK	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CCDC162P	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CCDC169	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CECR7	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CLEC12B	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CRLF2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
ENAM	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
FAM201A	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103

FOSL1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
HSPA7	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
JAG2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
KLHL11	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
PRSS53	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
SLC22A17	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TEAD2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TMCO5A	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TYRP1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
UHRF1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
ARF5	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
BIRC5	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CCR9	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
CEACAM6	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
DPY19L2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
GMPR	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
GTF2IRD2B	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
IGSF22	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
ILDR1	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
MIR3128	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
MTMR9LP	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
PTPRT	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
RASA4	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
SNORA19	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TDO2	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
TRIM7	-0,66667	0,333333	-2,15205	0,079553	0,165731	-5,44103
FBLL1	2,007456	1,003728	2,151069	0,079656	0,165921	-5,44237
CYP20A1	-1,02814	6,167827	-2,15007	0,079761	0,166116	-5,44374
FAM186A	1,245655	1,151148	2,149609	0,07981	0,166163	-5,44437
SLC32A1	1,245655	1,151148	2,149609	0,07981	0,166163	-5,44437
TSHZ1	0,312663	7,475177	2,149516	0,07982	0,166163	-5,44449
TMEM67	0,504858	3,231308	2,149218	0,079851	0,166187	-5,44449
RFXAP	0,459222	5,183209	2,149185	0,079854	0,166187	-5,44495
MCM4	-1,56779	4,433349	-2,14906	0,079867	0,166189	-5,44511
TCIRG1	-2,47846	3,833018	-2,14875	0,079901	0,166234	-5,44554
KCNK10	1,761801	1,742555	2,147539	0,080028	0,166475	-5,4472
CCDC58	0,869059	5,217808	2,147328	0,08005	0,166496	-5,44748
LBR	0,275338	9,103559	2,146681	0,080119	0,166614	-5,44837
ZMIZ2	-1,88512	4,845015	-2,14601	0,08019	0,166738	-5,44929
TOR1B	-2,89133	4,503976	-2,14582	0,08021	0,166739	-5,44955
ZC3H14	0,305005	7,799868	2,145778	0,080214	0,166739	-5,4496
CCDC93	0,325618	7,603933	2,145439	0,08025	0,166769	-5,45007
KLRD1	-0,54106	8,326909	-2,14542	0,080252	0,166769	-5,45009
TAL1	-1,52832	2,228266	-2,14505	0,080291	0,16682	-5,45059
GEMIN7	-1,47504	4,059449	-2,14497	0,0803	0,16682	-5,45071
PNKD	-0,84273	5,584481	-2,14299	0,08051	0,167231	-5,45342
ARSA	-0,60171	5,186626	-2,14264	0,080547	0,167283	-5,45389
FBXW2	0,350626	8,135369	2,142408	0,080571	0,16731	-5,45421
PLEKHA3	0,278437	7,555604	2,141645	0,080653	0,167434	-5,45525
MAP3K1	0,270037	9,437911	2,141622	0,080655	0,167434	-5,45528
NARS2	0,400479	5,590097	2,141492	0,080669	0,167438	-5,45546
ACTN4	-0,33927	8,292941	-2,14127	0,080693	0,167463	-5,45577

PHC1	0,441939	4,999549	2,141065	0,080714	0,167483	-5,45605
ARHGAP25	0,391937	7,962463	2,140584	0,080765	0,167565	-5,4567
TAF10	0,44873	6,001541	2,139011	0,080933	0,167888	-5,45885
ABCB10	-0,47991	5,044498	-2,13791	0,081051	0,168096	-5,46036
CCDC71L	-0,71394	6,385557	-2,13785	0,081057	0,168096	-5,46043
KTI12	-0,59	4,528045	-2,13727	0,08112	0,168201	-5,46124
HTRA2	0,732766	5,007151	2,13685	0,081164	0,168269	-5,46181
ARRB2	-0,30458	7,472818	-2,1367	0,081181	0,168278	-5,46201
TRIP10	-2,03104	3,179469	-2,13635	0,081218	0,168331	-5,46249
TRAPPC9	-1,37643	3,078189	-2,13579	0,081278	0,168431	-5,46326
L3MBTL3	0,427692	7,042699	2,13544	0,081316	0,168474	-5,46373
TMPRSS4	1,578989	1,984482	2,135263	0,081335	0,168474	-5,46398
REEP1	1,578989	1,984482	2,135263	0,081335	0,168474	-5,46398
STIM1	0,452759	7,620835	2,135074	0,081355	0,168491	-5,46423
DDN	2,043094	1,021547	2,134491	0,081417	0,168522	-5,46503
OR1N2	2,043094	1,021547	2,134491	0,081417	0,168522	-5,46503
TNNI3	2,043094	1,021547	2,134491	0,081417	0,168522	-5,46503
WISP2	2,043094	1,021547	2,134491	0,081417	0,168522	-5,46503
UCP2	0,292004	7,126909	2,134018	0,081468	0,168602	-5,46568
TMC8	0,374432	7,161081	2,133708	0,081502	0,168614	-5,4661
AMPD3	-0,91714	5,697901	-2,13352	0,081522	0,168614	-5,46636
WDR41	-2,92683	4,599881	-2,13346	0,081528	0,168614	-5,46644
ZNF513	-2,42315	2,480695	-2,13343	0,081532	0,168614	-5,46648
YTHDC2	0,303398	8,105413	2,133412	0,081534	0,168614	-5,4665
ZNF223	-1,67412	2,503728	-2,13318	0,081558	0,16864	-5,46682
CATSPER2P	2,058863	2,086073	2,132736	0,081606	0,168715	-5,46743
SRSF2	-0,31048	9,124478	-2,13221	0,081663	0,168797	-5,46815
ANP32E	0,266732	9,33533	2,132147	0,08167	0,168797	-5,46823
MTRNR2L1	1,18144	2,452374	2,131917	0,081695	0,168823	-5,46855
STK19	1,302297	1,70779	2,13096	0,081798	0,169012	-5,46985
ING1	0,361895	6,778635	2,130694	0,081827	0,169047	-5,47022
STXBP3	-0,28572	7,451903	-2,13022	0,081878	0,169128	-5,47087
IGFBP7	-2,27459	3,577937	-2,12996	0,081906	0,169162	-5,47122
ARPC4	-0,50998	7,892693	-2,12937	0,081969	0,169268	-5,47202
SCCPDH	-1,83721	4,900417	-2,12892	0,082018	0,169339	-5,47264
HERC2P2	0,693115	5,184631	2,128818	0,082029	0,169339	-5,47278
RNF32	1,881285	1,607309	2,128722	0,08204	0,169339	-5,47291
FAM45A	-1,16076	4,629446	-2,12859	0,082054	0,169343	-5,47309
ZMYND8	0,275962	8,080633	2,128182	0,082098	0,1694	-5,47365
TXNDC5	-0,99133	3,016415	-2,12812	0,082105	0,1694	-5,47374
PARD6A	-1,8469	2,697428	-2,12695	0,082232	0,169618	-5,47533
LRRC57	-1,06216	4,777676	-2,12691	0,082236	0,169618	-5,47539
RBM38	0,385643	7,687062	2,12681	0,082247	0,169618	-5,47552
PRPS1	0,427697	7,200063	2,126644	0,082265	0,169631	-5,47575
TNFAIP1	-2,68709	4,253984	-2,12632	0,082301	0,169679	-5,47619
TMEM30A	-0,31603	8,863789	-2,12606	0,082329	0,169712	-5,47655
SH3BGRL2	1,090277	3,576057	2,125824	0,082354	0,16974	-5,47687
MORC1	2,019631	1,538136	2,123593	0,082597	0,170191	-5,47992
NXNL2	2,019631	1,538136	2,123593	0,082597	0,170191	-5,47992
TMEM183A	0,336163	6,457923	2,123443	0,082614	0,1702	-5,48012
CFL1P1	1,460274	2,925124	2,123148	0,082646	0,170218	-5,48053
BORA	-0,89962	5,190492	-2,12315	0,082646	0,170218	-5,48053

FRG1	-0,3403	8,100645	-2,1229	0,082673	0,170248	-5,48086
RNF123	-1,0575	3,905177	-2,12244	0,082723	0,170291	-5,48149
PARP9	-0,36513	9,527488	-2,12236	0,082732	0,170291	-5,48161
N4BP2L1	-0,43549	8,432417	-2,12235	0,082733	0,170291	-5,48162
PANX1	-2,47546	3,922826	-2,12227	0,082742	0,170291	-5,48173
RAP1A	-0,29891	9,426208	-2,12184	0,082788	0,170328	-5,48231
RNF220	-0,33543	6,974351	-2,12166	0,082808	0,170328	-5,48256
ESR2	2,47598	2,011966	2,121643	0,08281	0,170328	-5,48258
TMEM64	0,595184	6,149633	2,121378	0,082839	0,170328	-5,48294
SNAPC3	-0,70478	6,182069	-2,12123	0,082855	0,170328	-5,48314
CFHR4	1,773976	0,886988	2,121222	0,082856	0,170328	-5,48316
COL9A1	1,773976	0,886988	2,121222	0,082856	0,170328	-5,48316
FSCN3	1,773976	0,886988	2,121222	0,082856	0,170328	-5,48316
RNF185	-1,7408	2,455361	-2,12046	0,08294	0,17045	-5,4842
UST	-1,7408	2,455361	-2,12046	0,08294	0,17045	-5,4842
DDHD1	-0,33726	8,161902	-2,12029	0,082958	0,170462	-5,48442
DIP2B	-0,42767	6,960206	-2,11931	0,083066	0,17066	-5,48577
LY86	-1,60826	5,034129	-2,1188	0,083121	0,170681	-5,48646
METTL4	0,430293	6,114353	2,118773	0,083125	0,170681	-5,4865
AMACR	-1,38998	0,694988	-2,11858	0,083146	0,170681	-5,48676
RPGRIP1	-1,38998	0,694988	-2,11858	0,083146	0,170681	-5,48676
AGAP4	-1,38998	0,694988	-2,11858	0,083146	0,170681	-5,48676
MPHOSPH1	0,365492	8,623822	2,118556	0,083149	0,170681	-5,4868
ZNF765	0,644295	5,367865	2,117487	0,083266	0,170897	-5,48826
MITD1	0,300219	8,562386	2,117316	0,083285	0,170911	-5,48849
TGM2	-1,43372	3,288277	-2,11666	0,083357	0,171034	-5,48938
PCF11	0,307537	9,613603	2,116551	0,083369	0,171034	-5,48954
SARS2	-1,64918	2,42704	-2,11578	0,083454	0,171183	-5,49059
SREK1IP1	0,261621	7,692877	2,115658	0,083468	0,171186	-5,49075
BDP1	0,335983	9,463678	2,114935	0,083547	0,171325	-5,49174
ALDOC	-1,79361	4,222564	-2,11262	0,083803	0,171825	-5,4949
DNAJC8	0,268855	8,692132	2,112095	0,083861	0,171919	-5,49562
NLN	-1,14081	6,710938	-2,11153	0,083924	0,172022	-5,49639
TRIM47	-1,64555	2,156106	-2,11137	0,083942	0,172034	-5,49661
SLC12A7	0,264862	6,607922	2,110293	0,084061	0,172247	-5,49808
TMEM115	-0,83659	4,292005	-2,11021	0,08407	0,172247	-5,49819
CYP3A5	1,602452	2,965177	2,10942	0,084158	0,172403	-5,49927
GSK3B	-0,33958	7,539645	-2,10896	0,08421	0,172484	-5,4999
REEP4	-3,09835	4,93915	-2,10845	0,084266	0,172532	-5,5006
TAOK2	0,420821	5,047002	2,108401	0,084272	0,172532	-5,50066
DBR1	-0,49191	7,205398	-2,10836	0,084276	0,172532	-5,50071
AAAS	-0,9012	3,42948	-2,10831	0,084283	0,172532	-5,50079
PEX7	-0,55494	4,9279	-2,10791	0,084327	0,172598	-5,50134
MED31	0,338568	6,549654	2,107688	0,084351	0,172621	-5,50164
ZC3H7B	0,329273	6,979889	2,107586	0,084363	0,172621	-5,50177
ARL15	-0,87272	4,927254	-2,10724	0,084402	0,172676	-5,50225
NFRKB	0,553763	7,342374	2,107045	0,084423	0,172695	-5,50251
HEATR1	0,421149	6,952829	2,10678	0,084453	0,17273	-5,50288
TNRC6C	0,339411	8,615062	2,10648	0,084486	0,172774	-5,50328
ERBB4	1,740797	1,732053	2,105988	0,084541	0,172861	-5,50396
CD22	0,560849	5,31002	2,105753	0,084567	0,17289	-5,50428
STK11	0,491327	7,226651	2,105314	0,084616	0,172965	-5,50488

ATF6	-0,44185	7,578905	-2,1047	0,084685	0,173079	-5,50571
FBXO42	0,351809	5,918374	2,104558	0,084701	0,173088	-5,50591
MRFAP1	0,282909	9,022939	2,103249	0,084848	0,173363	-5,50769
KHDC1	1,588904	2,184427	2,102788	0,084899	0,173401	-5,50832
C9orf3	-1,52832	1,625815	-2,10264	0,084916	0,173401	-5,50852
AKR7L	1,528321	1,625815	2,102644	0,084916	0,173401	-5,50852
C7orf61	1,528321	1,625815	2,102644	0,084916	0,173401	-5,50852
EIF2AK2	-0,41113	7,78144	-2,10248	0,084934	0,173413	-5,50874
GTF2F1	0,617103	6,577553	2,102158	0,08497	0,173462	-5,50918
ZNF701	-1,11716	4,999694	-2,10189	0,085001	0,173499	-5,50955
ADCY1	1,387424	3,426936	2,101252	0,085072	0,17362	-5,51042
INPP5D	0,307311	9,020733	2,100026	0,08521	0,173877	-5,51209
ECD	-0,34486	5,938039	-2,09913	0,085311	0,174058	-5,51331
DOCK5	-0,93114	6,040462	-2,09811	0,085426	0,174267	-5,51471
ATXN7	-0,67114	4,552136	-2,09792	0,085447	0,174285	-5,51496
WDR53	0,415846	5,258024	2,097785	0,085463	0,174292	-5,51515
SPATA5	0,468628	5,79924	2,097673	0,085476	0,174293	-5,5153
N4BP2	-0,38703	6,655291	-2,09646	0,085613	0,174547	-5,51695
FAM78A	-0,36519	6,629491	-2,09536	0,085737	0,174776	-5,51845
MLLT3	0,451602	7,566564	2,095174	0,085759	0,174794	-5,51871
XIAP	-0,26658	8,68363	-2,0946	0,085823	0,174901	-5,51949
SH2D4B	2,587184	1,293592	2,094308	0,085857	0,174944	-5,51989
MCM5	-0,97849	4,983176	-2,09372	0,085924	0,175056	-5,5207
SLC29A2	-1,75649	1,814028	-2,09358	0,085939	0,175061	-5,52088
APBB1	0,552015	4,427269	2,091642	0,08616	0,175486	-5,52353
YEATS2	-0,57679	7,033286	-2,0915	0,086176	0,175493	-5,52372
ZKSCAN3	-1,12211	3,668363	-2,09103	0,08623	0,175579	-5,52437
UPP1	0,567822	6,161216	2,090651	0,086273	0,17564	-5,52488
TACC1	-0,2735	9,07402	-2,09046	0,086295	0,17566	-5,52514
RPGR	-0,62368	5,678974	-2,0903	0,086313	0,175671	-5,52536
PTER	0,32296	7,140878	2,090002	0,086347	0,175715	-5,52577
CTNNAL1	0,853062	4,200507	2,089533	0,086401	0,175799	-5,52641
STMN3	0,402022	7,216212	2,089425	0,086413	0,175799	-5,52655
USP3	0,332482	8,263369	2,089296	0,086428	0,175803	-5,52673
PPCDC	-1,49728	1,94363	-2,0888	0,086485	0,175894	-5,52741
TMX3	0,278482	8,480801	2,087744	0,086606	0,176006	-5,52885
TRIO	-0,7279	6,195508	-2,08762	0,086619	0,176006	-5,52901
MYBL1	-0,3322	8,468094	-2,08756	0,086627	0,176006	-5,5291
MBTD1	0,511403	6,721273	2,087414	0,086643	0,176006	-5,5293
DYRK4	-0,6536	4,710682	-2,08705	0,086685	0,176006	-5,52979
SETD6	0,43548	5,104999	2,086093	0,086795	0,176006	-5,5311
FEM1B	-0,332	8,324301	-2,08597	0,086809	0,176006	-5,53127
AP4B1	-2,56856	4,084574	-2,08585	0,086822	0,176006	-5,53142
C16orf91	0,423062	5,073068	2,085145	0,086904	0,176006	-5,53239
TRIM22	-0,30692	8,665687	-2,08429	0,087002	0,176006	-5,53355
BPTF	0,251782	10,6857	2,084228	0,087009	0,176006	-5,53364
ZBTB20	0,474568	9,066265	2,083716	0,087068	0,176006	-5,53434
ZNF318	-0,31603	7,634015	-2,08317	0,087131	0,176006	-5,53508
TFDP2	0,333649	7,509929	2,082572	0,0872	0,176006	-5,5359
FAM204A	0,280419	7,977117	2,082355	0,087225	0,176006	-5,53619
RAB37	0,557273	5,635344	2,081117	0,087368	0,176006	-5,53788
GADD45GII	-1,04255	5,451392	-2,08109	0,087372	0,176006	-5,53792

PLD6	0,877398	4,198182	2,080751	0,087411	0,176006	-5,53838
RIC8B	0,529693	5,471892	2,080574	0,087431	0,176006	-5,53862
BMPR1A	-0,74286	4,113165	-2,08042	0,087449	0,176006	-5,53883
PRKCZ	-1,51083	2,219522	-2,08017	0,087478	0,176006	-5,53917
ZFAT	-2,11465	3,398115	-2,07976	0,087525	0,176006	-5,53972
CACNA1H	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
CAPN5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
CEACAM3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
DKK2	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ELL3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
FABP4	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
LCA5L	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
MYO7A	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
NCR3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
NLRP7	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
OR7D4	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
PLIN5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
PNMA5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
RAB3A	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ROCK1P1	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
SLC1A7	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
SNX21	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ZNF630	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ATP8B3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
BHLHE22	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
C4BPA	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
CATSPER3	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
CEACAM4	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
CIDEC	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
CLEC1A	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
CRNDE	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
CYB5R2	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
DLGAP5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
FOXA1	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
GPRC5B	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
GRIP2	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
HCN3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
IL12B	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
IL22	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
KCNJ13	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
LCT	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
LIMS2	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
LRP5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
NRADDP	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
OR2A5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
OR4Q3	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
POTEA	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
PPP1R14C	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
RANBP3L	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
RPL21P28	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
SLC26A3	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
SLC2A2	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398

SLC6A4	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
STX19	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
TERC	0,861654	0,430827	2,079707	0,087532	0,176006	-5,5398
TOX3	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ZNF433	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
FZD8	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
ICAM5	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
MAOA	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
OR6P1	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
TMEM56	-0,86165	0,430827	-2,07971	0,087532	0,176006	-5,5398
UBE2O	0,492804	7,551322	2,079667	0,087536	0,176006	-5,53986
IL10RB	-0,55031	6,446049	-2,07863	0,087657	0,176221	-5,54128
EMBP1	-1,63563	2,151148	-2,07853	0,087668	0,176221	-5,54141
NR1H2	-2,4155	3,892844	-2,07773	0,087761	0,176383	-5,5425
TLE2	-1,55178	1,549868	-2,0768	0,08787	0,176576	-5,54377
GPR153	-1,79744	2,780005	-2,07596	0,087967	0,176731	-5,54491
TCL1A	-0,49715	6,644771	-2,07592	0,087972	0,176731	-5,54497
SHMT2	0,392491	5,938003	2,075163	0,08806	0,17686	-5,546
IFT27	-0,36958	5,641979	-2,07515	0,088061	0,17686	-5,54601
GPATCH3	0,459504	4,608322	2,073882	0,088209	0,177133	-5,54774
EDAR	2,043094	2,078189	2,073712	0,088229	0,177147	-5,54797
ZFAND2A	0,563143	5,187927	2,072683	0,088349	0,177364	-5,54938
DHX57	-1,24639	5,151401	-2,07204	0,088425	0,177405	-5,55026
CD300A	-0,50625	5,834304	-2,07192	0,088438	0,177405	-5,55041
GABRA2	1,464106	0,732053	2,071434	0,088495	0,177405	-5,55108
HIST1H2BE	1,464106	0,732053	2,071434	0,088495	0,177405	-5,55108
HOXA-AS3	1,464106	0,732053	2,071434	0,088495	0,177405	-5,55108
JAZF1-AS1	1,464106	0,732053	2,071434	0,088495	0,177405	-5,55108
RPL23AP82	-1,46411	0,732053	-2,07143	0,088495	0,177405	-5,55108
SIRPB2	-1,46411	0,732053	-2,07143	0,088495	0,177405	-5,55108
TRIM6	-1,46411	0,732053	-2,07143	0,088495	0,177405	-5,55108
NUDT16P1	-1,46411	0,732053	-2,07143	0,088495	0,177405	-5,55108
CEP95	0,336744	7,148783	2,070995	0,088547	0,177453	-5,55168
VPS25	-1,52929	4,414102	-2,07089	0,088559	0,177453	-5,55181
FDX1	-0,54996	7,373673	-2,07089	0,088559	0,177453	-5,55182
ASB8	0,508152	6,072687	2,070802	0,08857	0,177453	-5,55194
ACOT7	-2,02346	2,119041	-2,07015	0,088646	0,177582	-5,55283
DEDD2	-0,49341	6,003239	-2,06984	0,088683	0,177629	-5,55325
MRPS25	0,400516	6,39023	2,069734	0,088695	0,177629	-5,55339
RC3H1	0,299856	8,595281	2,069348	0,08874	0,177694	-5,55392
ZNF622	0,286301	5,476953	2,067798	0,088923	0,178034	-5,55603
CDK7	-0,49396	4,722924	-2,06744	0,088964	0,178093	-5,55652
GFM2	-0,63509	4,606833	-2,06725	0,088987	0,178095	-5,55678
FBXO22	0,3692	7,052245	2,067217	0,088991	0,178095	-5,55682
FAIM	-1,77398	2,660964	-2,06649	0,089077	0,178241	-5,55781
ARID4A	0,279695	9,821242	2,066276	0,089102	0,178267	-5,5581
XRN1	0,339635	9,386927	2,065866	0,08915	0,178339	-5,55866
INHBA	0,582036	7,319739	2,064918	0,089262	0,178538	-5,55995
NAA60	0,48685	5,958324	2,06473	0,089285	0,178557	-5,56021
UXS1	0,294869	8,959158	2,064358	0,089329	0,178619	-5,56072
PKD1L3	1,723308	1,528321	2,063363	0,089446	0,17883	-5,56207
ATL3	-0,63593	7,195354	-2,06321	0,089464	0,17884	-5,56228

KLHL12	-0,42707	5,762146	-2,06291	0,0895	0,178869	-5,56268
GATA3	0,310323	9,091573	2,062876	0,089504	0,178869	-5,56274
MTRNR2L7	1,569273	2,420267	2,062463	0,089553	0,178919	-5,5633
CCDC69	0,274834	6,726492	2,062451	0,089555	0,178919	-5,56331
WDR44	0,385999	6,241023	2,060691	0,089764	0,179312	-5,56571
TMEM223	0,561838	5,43293	2,060445	0,089793	0,179322	-5,56605
SMC6	-0,26222	8,423596	-2,06043	0,089794	0,179322	-5,56606
CHD9	-0,26506	8,733275	-2,05999	0,089847	0,179401	-5,56666
AQR	0,296938	8,263263	2,059604	0,089893	0,179469	-5,56719
P4HA1	-0,56908	8,737221	-2,05922	0,089939	0,179534	-5,56771
BDH1	0,410485	5,632697	2,057872	0,0901	0,17983	-5,56955
RCE1	-2,13077	2,172696	-2,05754	0,090139	0,179883	-5,57
SLC2A6	-1,56681	3,385858	-2,05728	0,09017	0,17991	-5,57035
ARMC8	0,270988	7,614364	2,057216	0,090178	0,17991	-5,57044
LARS	0,2883	8,277119	2,057026	0,090201	0,17993	-5,5707
SRL	2,214619	1,107309	2,056079	0,090314	0,180131	-5,57199
ZNF706	-0,29229	7,1797	-2,05587	0,090338	0,180154	-5,57227
TTC33	0,401737	6,45106	2,055738	0,090355	0,180161	-5,57245
ABHD13	0,38319	7,431651	2,055546	0,090378	0,180179	-5,57272
GRM1	1,900147	0,950073	2,055449	0,090389	0,180179	-5,57285
ARID1B	0,295248	9,859144	2,054979	0,090445	0,180266	-5,57349
SARS	0,253277	7,427249	2,054702	0,090479	0,180307	-5,57386
TPX2	1,900147	2,885858	2,053829	0,090583	0,18049	-5,57505
EIF3J	-0,26411	8,981534	-2,05329	0,090649	0,180594	-5,57579
RFNG	-0,86165	3,928111	-2,053	0,090684	0,180639	-5,57619
UMPS	-0,40579	6,015815	-2,05256	0,090735	0,180716	-5,57677
VDAC1	-0,27652	7,217158	-2,05212	0,090789	0,180798	-5,57738
ZNF771	1,099615	3,208901	2,05173	0,090836	0,180865	-5,57791
MIR155HG	-1,09313	5,387668	-2,04939	0,091118	0,181401	-5,58109
CLASP1	0,417767	7,260317	2,049023	0,091162	0,181464	-5,58159
DLG5	1,228782	3,778342	2,047886	0,0913	0,181691	-5,58314
CACYBP	-0,25402	8,250528	-2,04787	0,091302	0,181691	-5,58316
EIF1	-0,27092	10,47423	-2,04702	0,091404	0,181866	-5,58431
SLC9A9	-0,6521	5,103187	-2,04693	0,091415	0,181866	-5,58444
MBOAT2	-2,003	3,044592	-2,04635	0,091485	0,181979	-5,58522
THAP7-AS1	0,883545	3,546822	2,046119	0,091514	0,18201	-5,58554
ERCC1	-1,28732	4,77497	-2,04596	0,091533	0,182023	-5,58576
TAGAP	0,290727	9,165166	2,045686	0,091566	0,182064	-5,58613
EBNA1BP2	-0,4299	6,875372	-2,04553	0,091586	0,182077	-5,58635
CDCA8	-1,72331	2,63563	-2,04518	0,091627	0,182126	-5,58682
CLIC3	-1,84948	2,365382	-2,04511	0,091636	0,182126	-5,58692
KLF13	-0,25999	8,898184	-2,04489	0,091663	0,182154	-5,58722
SNX17	0,444678	7,237114	2,044457	0,091716	0,182212	-5,58781
TRMT112	0,344042	9,274679	2,044435	0,091718	0,182212	-5,58784
COL2A1	2,721636	1,360818	2,043868	0,091787	0,182288	-5,58861
FNDC7	2,721636	1,360818	2,043868	0,091787	0,182288	-5,58861
BTBD8	0,503766	4,449213	2,043805	0,091795	0,182288	-5,58869
ZMPSTE24	-0,38968	6,31967	-2,04348	0,091835	0,182324	-5,58914
SLC25A46	0,263934	7,996656	2,043443	0,091839	0,182324	-5,58918
SET	0,265558	9,744285	2,042943	0,0919	0,182419	-5,58986
RNPC3	0,390543	7,783257	2,0424	0,091966	0,182525	-5,5906
PLEKHA2	0,317581	8,806708	2,042276	0,091981	0,182529	-5,59077

VPS37A	-0,35764	6,42375	-2,04156	0,092069	0,182678	-5,59175
KRBA1	-1,69227	2,179469	-2,04124	0,092108	0,182729	-5,59218
ATN1	-1,91318	2,999684	-2,03981	0,092282	0,183049	-5,59412
PITPNB	-0,25153	7,674762	-2,03941	0,092331	0,18312	-5,59466
SND1	-0,42336	7,473223	-2,039	0,092381	0,183194	-5,59522
LYPD3	0,824644	3,071415	2,038616	0,092429	0,183263	-5,59575
CRTC3	0,336797	7,622808	2,037931	0,092513	0,18338	-5,59668
XYLB	-1,35296	1,978779	-2,03792	0,092514	0,18338	-5,59669
PTRH1	-0,96896	3,527576	-2,03768	0,092543	0,183413	-5,59702
ZNF671	0,708706	4,466801	2,037295	0,092591	0,183481	-5,59755
PSMC5	-0,36928	7,314654	-2,03653	0,092685	0,183625	-5,59859
POP5	-2,38998	3,788774	-2,03649	0,09269	0,183625	-5,59864
ZC3H15	0,266184	9,697775	2,035027	0,09287	0,183956	-5,60063
NBPF9	1,082643	3,597963	2,033754	0,093027	0,184242	-5,60236
SMC5	-0,29094	8,335744	-2,03361	0,093044	0,18425	-5,60255
TSC22D1	0,450475	6,862084	2,032554	0,093175	0,184483	-5,60399
SUOX	1,212837	4,391168	2,032192	0,09322	0,184546	-5,60448
COIL	0,296701	7,249648	2,031471	0,093309	0,184697	-5,60546
ZNF561	0,365369	5,502459	2,030768	0,093396	0,184843	-5,60642
SRSF10	0,288181	9,566723	2,030601	0,093417	0,184858	-5,60665
SLC39A6	-0,35231	8,021304	-2,03046	0,093434	0,184868	-5,60684
MINOS1	0,405779	6,763174	2,029654	0,093534	0,185039	-5,60793
UBAP1L	-1,3568	1,980695	-2,02946	0,093558	0,18506	-5,6082
LSM14B	-0,40301	7,482463	-2,0292	0,09359	0,185097	-5,60854
BAG6	-0,41635	7,001214	-2,02905	0,093609	0,18511	-5,60876
ZBTB41	-0,33034	6,96249	-2,02761	0,093788	0,185438	-5,61071
UBE3A	0,288658	9,520553	2,026292	0,093952	0,185736	-5,6125
CBX6	-0,37404	9,172343	-2,02585	0,094007	0,185818	-5,6131
LUZP1	0,437098	7,277442	2,024906	0,094125	0,186026	-5,61439
SCFD2	-1,82848	2,688214	-2,02475	0,094144	0,186038	-5,6146
GPR19	1,983993	2,789436	2,024572	0,094167	0,186056	-5,61484
ENSA	-0,39181	7,816377	-2,02441	0,094187	0,186071	-5,61507
UBE2V2	0,26492	8,427234	2,023539	0,094296	0,186259	-5,61624
ADRB2	-0,45718	5,777203	-2,02324	0,094334	0,186268	-5,61665
DERL2	0,366392	7,02847	2,023233	0,094334	0,186268	-5,61666
INTS9	-0,41962	4,917013	-2,02319	0,09434	0,186268	-5,61672
MAPRE1	-0,37578	7,532562	-2,02255	0,09442	0,186387	-5,61759
RFFL	0,287566	7,81007	2,022496	0,094426	0,186387	-5,61766
RPL13AP3	1,522116	3,43518	2,021665	0,094531	0,186566	-5,61879
TRPM8	2,957815	2,673895	2,0215	0,094551	0,186567	-5,61901
MFAP5	2,064684	2,968127	2,021452	0,094557	0,186567	-5,61908
MS4A4A	-1,98352	3,155713	-2,02115	0,094595	0,186592	-5,61949
TMEM62	-1,34767	4,197121	-2,02114	0,094596	0,186592	-5,6195
CTSW	1,043432	3,906655	2,020924	0,094624	0,18662	-5,61979
NREP	-1,83062	2,689285	-2,0207	0,094652	0,18665	-5,6201
VPS11	-0,65709	5,352478	-2,02036	0,094694	0,186682	-5,62056
PER2	-0,8479	5,021684	-2,02036	0,094695	0,186682	-5,62057
DOCK10	-0,31234	8,928625	-2,01978	0,094767	0,18679	-5,62135
HADHB	-0,32976	7,855385	-2,01971	0,094776	0,18679	-5,62144
NUDT18	-1,77995	1,889975	-2,01925	0,094833	0,186877	-5,62206
PPP2CB	-0,27846	7,690251	-2,01891	0,094877	0,186937	-5,62253
C19orf48	-1,81707	1,908535	-2,01855	0,094922	0,187	-5,62302

COQ6	0,617209	4,532746	2,017944	0,094998	0,187114	-5,62384
YIPF2	-2,35051	3,769042	-2,01788	0,095006	0,187114	-5,62393
FXN	-1,00118	4,779012	-2,01764	0,095037	0,187134	-5,62426
MEF2C	0,313359	7,944652	2,017516	0,095053	0,187134	-5,62442
NBPF11	0,814054	5,097179	2,017487	0,095056	0,187134	-5,62446
SF3A3	0,327024	7,542311	2,017305	0,095079	0,187153	-5,62471
ANKRD17	0,355379	8,772783	2,016545	0,095175	0,187316	-5,62574
TBC1D7	-0,46133	3,789905	-2,01608	0,095234	0,187406	-5,62638
ZC3H18	0,398524	8,154624	2,015632	0,095291	0,18749	-5,62698
AP1G1	0,386462	7,969985	2,015412	0,095318	0,187519	-5,62728
HSPA14	0,296186	6,469794	2,015137	0,095353	0,187561	-5,62765
SEC22B	-0,32825	6,696317	-2,01398	0,0955	0,187824	-5,62923
TTN	0,660646	7,776071	2,013501	0,09556	0,187917	-5,62988
ALS2CL	1,709761	2,188214	2,013224	0,095596	0,18796	-5,63025
BATF3	-1,66332	2,662275	-2,01275	0,095656	0,188053	-5,6309
UBL4A	0,463672	6,170197	2,012548	0,095681	0,188076	-5,63117
NUSAP1	-1,21248	2,524534	-2,01185	0,09577	0,188224	-5,63211
TIMM8A	-2,37276	2,519715	-2,0113	0,09584	0,188335	-5,63286
WNT10A	-0,78752	2,996213	-2,01077	0,095908	0,188442	-5,63358
ZNFX1	0,270008	8,644673	2,0103	0,095967	0,188511	-5,63422
NDUFC1	-0,3079	8,116712	-2,01017	0,095984	0,188511	-5,63439
LAMA5	2,007456	3,88018	2,009809	0,09603	0,188511	-5,63489
PCK1	2,321928	1,160964	2,009761	0,096036	0,188511	-5,63495
TUBB3	2,321928	1,160964	2,009761	0,096036	0,188511	-5,63495
IL26	2,321928	1,160964	2,009761	0,096036	0,188511	-5,63495
SAMD7	2,321928	1,160964	2,009761	0,096036	0,188511	-5,63495
SIGMAR1	-1,59999	3,509757	-2,00921	0,096107	0,188624	-5,6357
CALCB	2,89316	1,779913	2,008993	0,096134	0,188651	-5,63599
NR2C2AP	0,653633	4,478078	2,008342	0,096217	0,188767	-5,63688
RIF1	0,311974	9,241155	2,008323	0,09622	0,188767	-5,6369
TP53I13	-1,99517	3,212202	-2,00733	0,096347	0,18899	-5,63825
GINS1	-1,70516	2,437542	-2,00711	0,096374	0,189	-5,63854
STAM2	-0,31983	7,28674	-2,00708	0,096379	0,189	-5,63859
FAM174A	-2,52247	4,019942	-2,00679	0,096416	0,189047	-5,63899
LRRC69	1,449492	3,208483	2,006554	0,096446	0,189079	-5,6393
POU3F4	2	1	2,00602	0,096514	0,189154	-5,64003
TMCO3	-0,47021	6,212372	-2,00598	0,096519	0,189154	-5,64008
VDAC3	-0,36168	8,098158	-2,00591	0,096528	0,189154	-5,64017
STK40	-0,4978	6,448251	-2,00576	0,096548	0,189154	-5,64039
TMEM97	-1,95393	2,984423	-2,00567	0,096559	0,189154	-5,6405
CAPN1	-0,65384	6,750293	-2,00563	0,096564	0,189154	-5,64056
ZNF581	0,511679	5,263295	2,004999	0,096645	0,189285	-5,64141
ANO9	-1,95502	3,020606	-2,00484	0,096665	0,189285	-5,64162
AGAP6	0,708675	3,997423	2,004795	0,096671	0,189285	-5,64169
HMBBOX1	0,36147	7,334298	2,004554	0,096702	0,189319	-5,64202
BBS4	-0,56856	5,053537	-2,00232	0,096989	0,189855	-5,64505
EYA3	-0,40153	7,240461	-2,00198	0,097033	0,189915	-5,64551
DDX1	0,303572	8,30086	2,001128	0,097143	0,190104	-5,64666
KCTD7	-0,91208	6,123357	-2,0002	0,097263	0,190312	-5,64792
SUCLG2	-0,94539	6,479963	-1,99989	0,097303	0,190364	-5,64834
ZNF195	-0,5109	5,607942	-1,99912	0,097402	0,190465	-5,64938
EHBP1	0,411911	5,942529	1,998688	0,097458	0,190465	-5,64997

ASTE1	0,538237	5,377366	1,99816	0,097527	0,190465	-5,65069
BPIFA3	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
COLEC11	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
CTDSPL	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
FBXO27	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
FER1L5	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
LEMD1	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
MYO3B	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
PLAC8L1	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
POTEC	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
PPIL6	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
PRSS12	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
RESP18	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
SLC15A1	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
SLC5A7	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
SYT5	1,584963	0,792481	1,997513	0,097611	0,190465	-5,65157
FOLR3	-1,58496	0,792481	-1,99751	0,097611	0,190465	-5,65157
KRTCAP2	-0,96896	3,158604	-1,9958	0,097834	0,190873	-5,6539
RPS27L	-0,35421	8,630235	-1,99553	0,097868	0,190914	-5,65425
CEBPZ	0,31229	9,340305	1,994376	0,098018	0,191181	-5,65582
ARPC1A	-0,52689	6,250548	-1,99352	0,09813	0,191372	-5,65698
FRMD4B	-0,76014	6,308937	-1,99324	0,098166	0,191416	-5,65736
HIST1H1D	-2,39681	3,972383	-1,99204	0,098324	0,191697	-5,65899
EIF2A	0,344439	8,208277	1,991673	0,098371	0,191763	-5,65948
SLC39A8	-0,45342	6,306414	-1,99131	0,098418	0,191829	-5,65998
ZNF283	0,989781	3,941507	1,990943	0,098466	0,191888	-5,66047
GRK6	-2,923	4,820882	-1,99087	0,098476	0,191888	-5,66057
PPP1CC	-0,26957	8,951461	-1,99071	0,098496	0,191902	-5,66079
HSPA4L	1,686298	2,37147	1,990481	0,098527	0,191934	-5,6611
GMIP	-0,52276	5,865332	-1,99003	0,098586	0,192023	-5,66171
CYB5R1	-0,96633	6,133042	-1,9898	0,098616	0,192037	-5,66203
TRMT61A	-1,42101	1,817815	-1,98977	0,09862	0,192037	-5,66207
PILRB	-1,46411	1,839362	-1,98961	0,098641	0,192043	-5,66228
THOC5	0,648922	5,69102	1,989538	0,09865	0,192043	-5,66238
SLC25A44	0,301463	6,858643	1,989321	0,098679	0,192072	-5,66267
UNC80	1,793607	2,425124	1,988624	0,09877	0,192218	-5,66362
NUP98	0,294643	7,816752	1,988541	0,098781	0,192218	-5,66373
FAM208A	0,286619	9,201901	1,988163	0,098831	0,192259	-5,66424
ZMYM4	0,401203	7,301046	1,988099	0,098839	0,192259	-5,66433
PARP2	-2,2728	3,68435	-1,98807	0,098843	0,192259	-5,66437
CLEC2B	-0,34999	8,430693	-1,98724	0,098952	0,192445	-5,6655
GRHL1	2,076273	2,233124	1,986304	0,099075	0,192657	-5,66676
TMCC3	0,523803	5,691536	1,985551	0,099174	0,192824	-5,66778
C12orf75	0,306444	7,553646	1,984561	0,099305	0,193051	-5,66912
USP47	0,324812	9,198416	1,984362	0,099331	0,193075	-5,66939
HIP1R	0,99726	4,218587	1,983795	0,099406	0,193194	-5,67016
CASP6	0,437959	5,953454	1,982886	0,099526	0,193401	-5,67139
CYSLTR2	-0,91427	4,005088	-1,98165	0,099689	0,193689	-5,67306
CYLC2	1,578989	2,2536	1,981456	0,099715	0,193689	-5,67333
KCNRG	1,578989	2,2536	1,981456	0,099715	0,193689	-5,67333
APBA3	-1,12494	4,54135	-1,98123	0,099745	0,193721	-5,67363
SMURF1	0,542645	4,747486	1,981092	0,099764	0,19373	-5,67382

DENND3	-0,29619	5,656419	-1,9809	0,099789	0,193753	-5,67409
FBXO45	-0,49911	7,006321	-1,98028	0,099871	0,193886	-5,67492
PPP3CA	-0,26228	9,958944	-1,97959	0,099962	0,194036	-5,67585
GDI2	-0,29855	9,144834	-1,97917	0,100019	0,194119	-5,67643
USP9X	0,314274	8,862745	1,978475	0,100111	0,194271	-5,67736
PARP12	-0,27569	6,330952	-1,97837	0,100125	0,194271	-5,6775
EFCAB7	1,060191	3,101511	1,977721	0,100212	0,194413	-5,67839
FUBP1	0,264655	10,09203	1,97724	0,100276	0,19451	-5,67904
UBXN6	-0,30129	7,413169	-1,977	0,100308	0,194546	-5,67936
PPIEL	1,666667	2,102452	1,976626	0,100358	0,194616	-5,67987
PPP4R1	-1,12134	6,130203	-1,97637	0,100392	0,194655	-5,68022
TRAM2	-1,67822	4,736937	-1,97605	0,100434	0,19471	-5,68064
MRPL11	0,305178	6,190507	1,975109	0,10056	0,194928	-5,68192
MATK	0,466981	4,528214	1,973982	0,100711	0,195194	-5,68345
ZBTB1	0,275296	8,808477	1,973712	0,100747	0,195237	-5,68381
HSDL1	-0,56532	5,355967	-1,9733	0,100802	0,195317	-5,68437
UAP1L1	-2,36842	3,939806	-1,9731	0,100829	0,195342	-5,68464
SUMO2	-0,37431	7,398952	-1,97235	0,10093	0,195511	-5,68566
FAM117B	0,448746	6,425083	1,97185	0,100997	0,195614	-5,68633
RAMP1	1,305846	2,376231	1,971723	0,101014	0,19562	-5,6865
SLC35C1	-1,49268	4,456102	-1,97134	0,101066	0,195694	-5,68703
LIMK1	-2,49151	4,172876	-1,97118	0,101087	0,195709	-5,68725
NDST2	-1,19499	1,704803	-1,97102	0,101109	0,195724	-5,68746
CYB561D1	-1,5113	4,478121	-1,9701	0,101231	0,195934	-5,6887
ANKRD42	-0,65835	4,852146	-1,96982	0,10127	0,195981	-5,68908
CELSR2	1,177777	4,155702	1,969462	0,101318	0,196021	-5,68956
MRPS9	0,356946	7,145797	1,969461	0,101318	0,196021	-5,68957
SNAP29	-0,32885	7,197354	-1,96914	0,101361	0,196077	-5,69
CAMK1D	-0,33399	8,087401	-1,96892	0,101391	0,196109	-5,6903
PRORS1P	-1,0148	3,443184	-1,96878	0,101409	0,196117	-5,69048
CYB5RL	-0,35717	3,788494	-1,96855	0,10144	0,19615	-5,69079
PANX2	-1,63563	0,817815	-1,96838	0,101464	0,196169	-5,69103
SLC45A4	-2,49258	4,099099	-1,96801	0,101513	0,196212	-5,69153
EPHA6	2,425375	1,212687	1,967804	0,101541	0,196212	-5,69181
KIF1A	2,425375	1,212687	1,967804	0,101541	0,196212	-5,69181
SEMA3F	2,425375	1,212687	1,967804	0,101541	0,196212	-5,69181
BCS1L	-0,5243	3,759433	-1,96753	0,101578	0,196237	-5,69218
NFE2L1	-0,2924	7,315343	-1,96553	0,101848	0,196237	-5,69488
METTL15	0,28239	5,735864	1,965422	0,101863	0,196237	-5,69503
INO80D	0,310042	8,393668	1,964228	0,102025	0,196237	-5,69664
CTAGE11P	-1	0,5	-1,96401	0,102054	0,196237	-5,69693
GLDC	-1	0,5	-1,96401	0,102054	0,196237	-5,69693
KIF5A	-1	0,5	-1,96401	0,102054	0,196237	-5,69693
RRM2	-1	0,5	-1,96401	0,102054	0,196237	-5,69693
ADCY6	1	0,5	1,964014	0,102054	0,196237	-5,69693
AMBP	1	0,5	1,964014	0,102054	0,196237	-5,69693
ATP6V1G3	1	0,5	1,964014	0,102054	0,196237	-5,69693
AURKC	1	0,5	1,964014	0,102054	0,196237	-5,69693
CREB3L1	1	0,5	1,964014	0,102054	0,196237	-5,69693
CSF2	1	0,5	1,964014	0,102054	0,196237	-5,69693
CSRP3	1	0,5	1,964014	0,102054	0,196237	-5,69693
DBIL5P2	-1	0,5	-1,96401	0,102054	0,196237	-5,69693

DCLK1	1	0,5	1,964014	0,102054	0,196237	-5,69693
DHH	1	0,5	1,964014	0,102054	0,196237	-5,69693
DNMT3L	1	0,5	1,964014	0,102054	0,196237	-5,69693
GAGE10	1	0,5	1,964014	0,102054	0,196237	-5,69693
IZUMO2	1	0,5	1,964014	0,102054	0,196237	-5,69693
LINC00310	1	0,5	1,964014	0,102054	0,196237	-5,69693
LINC00330	1	0,5	1,964014	0,102054	0,196237	-5,69693
LRRC36	1	0,5	1,964014	0,102054	0,196237	-5,69693
OR3A1	1	0,5	1,964014	0,102054	0,196237	-5,69693
PDE3A	1	0,5	1,964014	0,102054	0,196237	-5,69693
PEAR1	1	0,5	1,964014	0,102054	0,196237	-5,69693
PGM5P2	1	0,5	1,964014	0,102054	0,196237	-5,69693
RSPH10B	1	0,5	1,964014	0,102054	0,196237	-5,69693
SGK2	1	0,5	1,964014	0,102054	0,196237	-5,69693
SLC6A17	1	0,5	1,964014	0,102054	0,196237	-5,69693
SPATA4	1	0,5	1,964014	0,102054	0,196237	-5,69693
SPTBN5	-1	0,5	-1,96401	0,102054	0,196237	-5,69693
STX1B	1	0,5	1,964014	0,102054	0,196237	-5,69693
TAF7L	1	0,5	1,964014	0,102054	0,196237	-5,69693
TYRO3	1	0,5	1,964014	0,102054	0,196237	-5,69693
NLE1	-1,88512	2,049868	-1,96185	0,102348	0,196775	-5,69985
ASMTL	-2,21186	3,708383	-1,96149	0,102398	0,196844	-5,70035
BAG3	0,606761	6,095897	1,961253	0,10243	0,196878	-5,70067
GORASP2	0,435591	7,805908	1,960905	0,102477	0,196943	-5,70114
CC2D1B	-0,78876	5,506363	-1,96072	0,102502	0,196964	-5,70139
ITGB1	0,269482	8,193829	1,960321	0,102557	0,197042	-5,70193
H2AFY2	-2,54691	2,781307	-1,95955	0,102662	0,197218	-5,70297
PGS1	0,43576	6,002991	1,959352	0,102689	0,197243	-5,70324
ECI1	-2,53606	4,262361	-1,95899	0,102739	0,197312	-5,70373
CDAN1	-1,39146	2,614024	-1,95825	0,102839	0,197477	-5,70472
RBX1	-0,34316	7,953627	-1,95779	0,102902	0,197571	-5,70534
METAP1	-0,44211	8,105631	-1,95698	0,103013	0,197733	-5,70644
CKAP2	-1,01719	5,414596	-1,95698	0,103014	0,197733	-5,70645
PPAN	-1,66478	2,499059	-1,95647	0,103083	0,197821	-5,70713
CBX3	-0,2519	9,606288	-1,95644	0,103088	0,197821	-5,70718
DENND4C	0,467445	6,308352	1,956142	0,103128	0,197871	-5,70758
TOM1	-2,43405	4,073643	-1,95598	0,103151	0,197888	-5,7078
KIF13B	-0,45414	6,624269	-1,95556	0,103209	0,197972	-5,70837
EIF2S3	0,263633	8,633643	1,954737	0,103321	0,198161	-5,70948
MED4	0,321429	8,745927	1,9542	0,103395	0,198276	-5,7102
MOB2	-0,45879	4,172637	-1,95387	0,103441	0,198336	-5,71065
RPS6KA5	-0,3004	7,852158	-1,95303	0,103556	0,198519	-5,71178
VPS13C	-0,26758	10,04791	-1,95297	0,103564	0,198519	-5,71186
PIK3C2A	0,350894	7,484428	1,952798	0,103588	0,198538	-5,7121
C2orf15	1,440643	2,160964	1,952211	0,103669	0,198653	-5,71289
CNPPD1	0,343064	6,678482	1,95216	0,103676	0,198653	-5,71296
ZC3H13	0,249688	9,734005	1,951828	0,103722	0,198713	-5,71341
BOD1	0,501133	6,522411	1,951491	0,103768	0,198741	-5,71386
SFXN5	-0,6863	3,614409	-1,95146	0,103773	0,198741	-5,7139
ZC4H2	0,884048	4,524271	1,95142	0,103778	0,198741	-5,71396
DYNLT3	-0,30044	7,244016	-1,95093	0,103846	0,198793	-5,71462
ERLIN1	-0,3586	6,816999	-1,95088	0,103853	0,198793	-5,71469

SLC25A4	-1,54312	2,545535	-1,95084	0,103858	0,198793	-5,71474
RUNX3	0,269964	9,96684	1,950814	0,103862	0,198793	-5,71478
PCGF3	-0,26526	7,288025	-1,94996	0,10398	0,198979	-5,71593
OTUB1	-0,66523	5,708881	-1,94991	0,103987	0,198979	-5,716
FRYL	0,258229	8,566463	1,948976	0,104116	0,199199	-5,71726
GUSB	-0,30579	6,20275	-1,94843	0,104191	0,199294	-5,71799
STK10	0,335842	8,500449	1,948359	0,104202	0,199294	-5,71809
LRRC59	-0,63056	6,342606	-1,94831	0,104208	0,199294	-5,71815
FBXL22	0,63563	2,286779	1,948062	0,104243	0,199333	-5,71849
DMTF1	0,385788	7,731624	1,9479	0,104265	0,199349	-5,71871
CD3EAP	-2,10248	3,265857	-1,94766	0,104299	0,199357	-5,71904
ATG12	0,250841	8,544888	1,947573	0,10431	0,199357	-5,71915
CXXC5	-0,31664	7,8677	-1,94757	0,104312	0,199357	-5,71916
INTS10	0,266717	6,980466	1,946966	0,104395	0,199485	-5,71997
SRXN1	-1,19499	1,125815	-1,94688	0,104407	0,199485	-5,72009
COMMD3	-0,26265	7,40167	-1,94603	0,104526	0,199685	-5,72124
HPCAL4	-2,51341	2,74318	-1,94565	0,104578	0,199757	-5,72175
BBS7	-0,95465	4,701244	-1,94553	0,104594	0,199763	-5,72191
CCDC159	-2,15935	2,348793	-1,94519	0,104642	0,199822	-5,72237
TTLL5	0,605257	5,778574	1,945103	0,104654	0,199822	-5,72249
DNAJB4	0,606707	5,483012	1,944682	0,104713	0,19986	-5,72306
CLTA	-0,29425	7,620392	-1,94467	0,104714	0,19986	-5,72307
RPL13P5	-1,95421	2,977106	-1,94465	0,104716	0,19986	-5,72309
MICAL3	0,863339	3,890739	1,944469	0,104742	0,199883	-5,72334
POLE4	-2,74017	4,571909	-1,94429	0,104766	0,199902	-5,72358
TMEM59	-0,29542	8,783546	-1,9441	0,104794	0,199927	-5,72384
HBA1	1,344516	7,075653	1,94391	0,10482	0,19995	-5,7241
TICAM1	-0,5331	6,527941	-1,94368	0,104852	0,199983	-5,72441
NUFIP2	-0,30247	9,15221	-1,94358	0,104866	0,199983	-5,72454
SCAP	0,339908	6,125048	1,942624	0,105	0,200212	-5,72584
SPOCK1	2,169265	1,417966	1,94249	0,105018	0,20022	-5,72602
AKAP6	1,578989	2,651148	1,942285	0,105047	0,200248	-5,72629
P2RX5	0,41004	4,633054	1,941979	0,10509	0,200303	-5,72671
FAM20A	-1,26912	1,16288	-1,94055	0,10529	0,200631	-5,72864
BAALC	-1,26912	1,16288	-1,94055	0,10529	0,200631	-5,72864
CNGB1	2,497284	1,248642	1,940292	0,105326	0,200672	-5,72898
HIST1H3H	0,84006	4,824803	1,939954	0,105373	0,200735	-5,72944
MAPKAPK5	0,322309	7,762135	1,939813	0,105393	0,200745	-5,72963
TRAPPC1	-0,56275	5,141145	-1,93956	0,105429	0,200786	-5,72997
YIF1B	-1,61725	2,582601	-1,93932	0,105462	0,200822	-5,73029
POLD4	-2,45024	3,812305	-1,93893	0,105516	0,200852	-5,73082
MRPL15	-0,79068	6,554712	-1,93885	0,105528	0,200852	-5,73093
CCDC167	-2,198	3,521264	-1,93874	0,105544	0,200852	-5,73108
MARS	0,275455	7,727635	1,938713	0,105547	0,200852	-5,73111
NDUFS6	-0,25386	8,341127	-1,9387	0,105549	0,200852	-5,73113
APBB1IP	0,372579	8,58804	1,938261	0,105611	0,200944	-5,73172
R3HCC1	0,382633	4,646757	1,937812	0,105674	0,201037	-5,73233
CLTB	-2,54906	4,288418	-1,93754	0,105712	0,201081	-5,73269
HBA2	1,003134	8,406019	1,937196	0,105761	0,201147	-5,73316
MKRN2	-0,51869	5,400998	-1,93594	0,105937	0,201434	-5,73485
ITGA5	0,693992	4,795834	1,935925	0,10594	0,201434	-5,73488
CRYBB2P1	0,738526	4,750391	1,935573	0,105989	0,201501	-5,73535

CR1	-1,11527	4,733459	-1,93478	0,106101	0,201659	-5,73642
CCNH	0,636504	6,062442	1,934782	0,106101	0,201659	-5,73642
DHTKD1	-0,54165	6,679228	-1,93363	0,106264	0,201942	-5,73798
UBE2F	-0,28134	7,260194	-1,93349	0,106284	0,201953	-5,73817
NUCKS1	0,240438	10,82208	1,931527	0,106562	0,202431	-5,74081
TSEN34	-1,92893	5,2502	-1,93151	0,106564	0,202431	-5,74083
USP5	-1,40495	4,363471	-1,9311	0,106622	0,202512	-5,74138
KIAA1191	0,267067	7,32238	1,929576	0,106839	0,202897	-5,74344
SCLT1	0,304032	7,537613	1,929433	0,106859	0,202909	-5,74363
OSBPL5	-2,31745	3,696962	-1,92778	0,107095	0,203289	-5,74586
DHRS11	-1,33333	1,194988	-1,92772	0,107103	0,203289	-5,74594
GLI4	-1,33333	1,194988	-1,92772	0,107103	0,203289	-5,74594
NDUFB4	0,283923	8,602681	1,927431	0,107144	0,203341	-5,74633
LANCL3	-1,38998	1,468964	-1,92701	0,107204	0,203345	-5,7469
DSC1	-1,38998	1,468964	-1,92701	0,107204	0,203345	-5,7469
MLC1	-1,38998	1,468964	-1,92701	0,107204	0,203345	-5,7469
NUDT11	-1,38998	1,468964	-1,92701	0,107204	0,203345	-5,7469
C19orf12	-0,50593	6,863931	-1,92582	0,107375	0,203614	-5,74851
CNOT1	0,291578	8,596296	1,925816	0,107375	0,203614	-5,74851
EBLN2	-0,57061	4,632523	-1,92523	0,107459	0,203741	-5,7493
FAM160B2	0,638164	5,566027	1,925146	0,107471	0,203741	-5,74941
PSMC2	0,344573	8,127939	1,924871	0,10751	0,203789	-5,74978
NMUR1	-1,46411	1,39872	-1,92448	0,107567	0,203869	-5,75031
HIF1A-AS2	1,605306	3,266759	1,924116	0,107618	0,203939	-5,7508
LIMD1	-0,29291	5,791848	-1,92393	0,107645	0,203963	-5,75105
TPH1	1,27763	3,990576	1,921594	0,10798	0,20457	-5,7542
BIN1	0,510363	6,631451	1,921135	0,108046	0,204667	-5,75481
KIAA0100	-0,60323	7,100084	-1,92079	0,108095	0,204734	-5,75528
ASXL2	0,274621	8,580226	1,920271	0,10817	0,204848	-5,75598
MED11	-2,23223	3,790239	-1,91971	0,108251	0,204974	-5,75674
ZFPL1	-2,16223	3,683567	-1,91939	0,108298	0,205035	-5,75717
SNRNP40	0,580754	6,043686	1,91905	0,108346	0,205099	-5,75762
SH2B1	0,405443	8,292962	1,918887	0,10837	0,205116	-5,75784
FBN1	2,169852	2,474901	1,918396	0,108441	0,205205	-5,7585
TECPR1	0,560736	6,322993	1,918358	0,108446	0,205205	-5,75855
ALAS2	1,762388	2,678633	1,917867	0,108517	0,205312	-5,75922
PPFIA2	2,145185	2,90321	1,917354	0,108591	0,20541	-5,75991
ZNF654	0,38516	7,282191	1,91731	0,108597	0,20541	-5,75997
ANXA11	-0,35224	8,161906	-1,9171	0,108627	0,205439	-5,76024
TRPV1	1,352965	2,399791	1,916937	0,108651	0,205443	-5,76047
C22orf46	0,738502	4,135654	1,916887	0,108659	0,205443	-5,76054
WRN	0,489403	6,715829	1,915789	0,108818	0,205716	-5,76201
RANBP3	0,395814	7,104316	1,915686	0,108832	0,205716	-5,76215
ZNF554	0,819811	3,402332	1,91293	0,109233	0,206363	-5,76586
CA12	1,389975	1,223308	1,912654	0,109273	0,206363	-5,76623
CTNNA2	1,389975	1,223308	1,912654	0,109273	0,206363	-5,76623
GRID2	1,389975	1,223308	1,912654	0,109273	0,206363	-5,76623
LIPG	1,389975	1,223308	1,912654	0,109273	0,206363	-5,76623
YAP1	1,389975	1,223308	1,912654	0,109273	0,206363	-5,76623
CLEC16A	0,673602	5,621238	1,912628	0,109277	0,206363	-5,76627
C16orf45	-0,88129	2,214619	-1,91246	0,109301	0,206381	-5,7665
C1QTNF3	-1,71113	2,296209	-1,9108	0,109542	0,206752	-5,76872

LRRTM4	1,787315	2,667633	1,910739	0,109552	0,206752	-5,76881
RNF41	-0,28722	7,113156	-1,91073	0,109553	0,206752	-5,76883
LRRC49	1,302297	1,512803	1,910709	0,109556	0,206752	-5,76885
TULP3	0,46719	5,807152	1,910543	0,10958	0,20677	-5,76908
TAF5	-2,34264	3,881079	-1,9094	0,109747	0,207032	-5,77062
METTL22	-1,93212	3,07337	-1,90939	0,109748	0,207032	-5,77062
HYLS1	-1,98997	3,264102	-1,90846	0,109885	0,207261	-5,77188
PRRC1	-0,28864	8,310449	-1,9083	0,109908	0,207261	-5,77209
CAMTA1	0,336439	7,173358	1,908263	0,109914	0,207261	-5,77214
STEAP2	2,043094	1,354881	1,907047	0,110092	0,207569	-5,77378
RNU6ATAC	2,214619	1,440643	1,906235	0,110211	0,207766	-5,77487
MYO1G	-1,41845	4,2287	-1,90589	0,110261	0,207834	-5,77534
FAM69A	0,563517	5,564062	1,905554	0,110311	0,207899	-5,77579
RANBP1	0,512302	6,279497	1,905371	0,110338	0,207922	-5,77603
SNORD11	-1,3023	2,091791	-1,90421	0,110509	0,208198	-5,7776
STON1	0,528777	4,19014	1,904176	0,110513	0,208198	-5,77764
SYMPK	0,529326	7,119821	1,903973	0,110543	0,208226	-5,77791
CENPQ	-0,3474	5,082811	-1,90155	0,1109	0,20887	-5,78117
SIX5	1,130772	1,565386	1,900849	0,111004	0,209019	-5,78212
PHAX	0,310035	8,304035	1,900821	0,111008	0,209019	-5,78215
TTLL1	-1,60245	1,737011	-1,90047	0,11106	0,209068	-5,78263
ATG9B	-1,34325	2,13573	-1,90044	0,111064	0,209068	-5,78266
DNAJA1	-0,38149	9,212693	-1,89976	0,111166	0,209224	-5,78358
CEP290	0,340545	8,799006	1,899684	0,111177	0,209224	-5,78368
HTATSF1	-0,32463	7,688547	-1,89947	0,111208	0,209255	-5,78397
SLC4A7	0,286313	9,081609	1,899245	0,111242	0,20929	-5,78427
NRXN3	1,709761	1,854881	1,89897	0,111282	0,209339	-5,78464
ZNF117	0,890536	5,314378	1,898337	0,111376	0,209488	-5,78549
SLC5A3	0,35095	8,089283	1,897795	0,111457	0,209611	-5,78622
PEX10	-1,06935	3,470462	-1,89633	0,111674	0,209992	-5,78819
FAM192A	0,293176	7,407661	1,896004	0,111723	0,210056	-5,78863
HNRNPD	0,25023	10,04031	1,895438	0,111807	0,210187	-5,78939
CCDC107	-0,51189	5,617768	-1,89505	0,111865	0,210255	-5,78991
NBR1	0,265354	9,160537	1,894932	0,111882	0,210255	-5,79007
DDX41	-0,47647	5,293389	-1,89489	0,111888	0,210255	-5,79012
HNRNPK	0,235458	10,87746	1,894537	0,111941	0,210327	-5,7906
SAV1	-0,2524	6,359247	-1,89393	0,112031	0,210453	-5,79141
RAB11B	-0,40649	6,947532	-1,89389	0,112038	0,210453	-5,79147
KLF2	-0,3956	10,5633	-1,89313	0,112152	0,210606	-5,79249
METTL1	-2,26912	2,467892	-1,89311	0,112155	0,210606	-5,79252
SNAI3	-0,46691	5,19255	-1,89304	0,112164	0,210606	-5,7926
IDH3B	0,488179	6,34688	1,892882	0,112188	0,210623	-5,79282
EZH1	0,339709	7,194561	1,892616	0,112228	0,21067	-5,79318
ZNF235	-0,96896	2,012803	-1,89198	0,112324	0,210821	-5,79404
FUT10	-1,44338	2,431452	-1,89043	0,112555	0,211203	-5,79612
VSIG10	1,590276	3,097435	1,89042	0,112557	0,211203	-5,79613
ABCF1	-0,59783	8,764877	-1,89024	0,112584	0,211225	-5,79637
PRF1	-0,68287	6,857218	-1,89003	0,112616	0,211251	-5,79666
PREP	-0,31133	7,030676	-1,88995	0,112627	0,211251	-5,79676
APH1B	-0,52864	5,756567	-1,88973	0,112661	0,211286	-5,79706
NECAP2	0,32117	7,709053	1,889392	0,112711	0,211352	-5,79751
INTS1	-0,91939	3,771905	-1,88918	0,112744	0,211385	-5,7978

YAF2	0,33793	7,263981	1,888418	0,112858	0,211566	-5,79882
DDHD2	-0,2942	6,805905	-1,88833	0,11287	0,211566	-5,79893
MIAT	0,296035	8,194052	1,888147	0,112898	0,211591	-5,79918
ASPHD2	0,446042	6,286424	1,887922	0,112932	0,211626	-5,79948
ZFYVE19	-1,24965	3,906655	-1,8868	0,113101	0,211914	-5,80099
ZBTB44	0,260593	9,533011	1,886488	0,113148	0,211948	-5,80141
HACL1	0,630475	5,011059	1,886481	0,113149	0,211948	-5,80142
RBM10	0,461897	7,174943	1,885859	0,113243	0,212092	-5,80225
FAM83H	-1	1,028321	-1,88568	0,113271	0,212092	-5,8025
CERS3	1	1,028321	1,885675	0,113271	0,212092	-5,8025
RAB33B	-1,238	5,281301	-1,88555	0,113289	0,212098	-5,80266
KREMEN1	-1,64094	2,65109	-1,8853	0,113328	0,212143	-5,80301
HAUS8	-1,34998	4,015778	-1,88507	0,113363	0,21218	-5,80332
PIM2	0,432767	8,935838	1,884249	0,113486	0,21228	-5,80441
ARMCX3	0,32086	7,996504	1,884133	0,113504	0,21228	-5,80457
GYS1	-0,44647	5,773194	-1,88402	0,11352	0,21228	-5,80472
FMR1-AS1	1,797439	0,89872	1,884014	0,113522	0,21228	-5,80473
SDC1	1,797439	0,89872	1,884014	0,113522	0,21228	-5,80473
HPN	1,797439	0,89872	1,884014	0,113522	0,21228	-5,80473
ZAR1L	1,797439	0,89872	1,884014	0,113522	0,21228	-5,80473
PSMC1	0,552371	4,827731	1,882563	0,113741	0,212354	-5,80668
NDUFB9	-0,41106	7,850519	-1,88233	0,113777	0,212354	-5,80699
SGSH	-2,48426	3,777906	-1,88151	0,1139	0,212354	-5,80808
AKAP9	-0,42264	9,82159	-1,88144	0,113911	0,212354	-5,80818
ELK4	-0,27065	9,020276	-1,88142	0,113915	0,212354	-5,80821
AIFM3	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
CDC42EP4	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
KIAA0408	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
CD1B	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
DNAH2	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
ELAVL2	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
GABRP	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
GNGT1	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
KCNMB3	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
LRRC61	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
MAPK4	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
NAT16	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
PAPLN	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
PRLHR	1,107309	0,553655	1,88098	0,113981	0,212354	-5,8088
TPGS1	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
ACTL10	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
CHRNA5	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
CYTL1	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
FAM110C	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
LAD1	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
NT5M	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
PLD4	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
SAMD13	-1,10731	0,553655	-1,88098	0,113981	0,212354	-5,8088
NCKAP5	1,497284	1,415309	1,880772	0,114013	0,212384	-5,80908
UBA5	-0,39686	7,257492	-1,88034	0,114078	0,212461	-5,80965
HOTTIP	2,253111	1,98821	1,880304	0,114084	0,212461	-5,80971
PTBP1	0,234926	8,829055	1,879144	0,114261	0,212761	-5,81126

SHF	1,407464	1,760374	1,878462	0,114364	0,212927	-5,81218
DBNL	0,385215	7,789093	1,878246	0,114397	0,212943	-5,81247
POLR2J	-0,75671	5,56949	-1,87821	0,114403	0,212943	-5,81252
CCDC137	0,322572	5,945553	1,877004	0,114587	0,213257	-5,81413
SLC35G1	-1,73959	2,751082	-1,8768	0,114618	0,213287	-5,81441
CTSF	-0,32424	5,250768	-1,87648	0,114667	0,213336	-5,81484
RAB40B	-0,95925	2,920267	-1,87643	0,114674	0,213336	-5,8149
APPL1	-0,32196	9,178361	-1,87597	0,114745	0,213439	-5,81552
CHST14	-0,74619	5,047797	-1,87569	0,114788	0,213485	-5,8159
ZBTB7A	-0,26049	9,871639	-1,87561	0,1148	0,213485	-5,816
UBAP2L	0,296283	7,398103	1,875242	0,114856	0,213561	-5,8165
SAYSD1	-1,13166	5,721318	-1,87513	0,114873	0,213564	-5,81664
IPO13	-1,69582	3,150207	-1,87357	0,115112	0,213981	-5,81873
RPUSD4	0,333649	7,276336	1,873193	0,11517	0,214061	-5,81924
SPATA17	1,514774	1,619041	1,871986	0,115356	0,214359	-5,82086
NLRP12	1,265286	2,958403	1,871949	0,115361	0,214359	-5,82091
EPPK1	1,384001	2,081976	1,871581	0,115418	0,214436	-5,8214
KIF5C	0,778756	5,974158	1,870959	0,115514	0,214586	-5,82224
CDK2AP2	-1,31458	6,561411	-1,87076	0,115544	0,214615	-5,8225
STAG3	1,033179	3,088004	1,870115	0,115644	0,214751	-5,82337
PPP1R37	1,212477	3,210832	1,870086	0,115648	0,214751	-5,82341
DCTN6	0,540758	6,561961	1,869816	0,11569	0,2148	-5,82377
SPHK2	0,351387	5,128354	1,869458	0,115745	0,214874	-5,82425
NOC4L	-1,76914	1,658547	-1,86794	0,115979	0,215281	-5,82628
GZMB	0,553751	7,32544	1,866924	0,116136	0,215545	-5,82764
C2CD2	-1,33078	4,041816	-1,86432	0,116541	0,216265	-5,83113
PPP2R5E	0,260615	9,304078	1,864222	0,116555	0,216265	-5,83126
EFCAB11	-0,32802	3,773917	-1,86404	0,116583	0,216289	-5,8315
OR1D2	1,464106	2,172696	1,863317	0,116696	0,216469	-5,83247
NIT1	0,427308	5,902911	1,862696	0,116793	0,21662	-5,8333
DHRS13	-0,73653	5,069362	-1,86245	0,116831	0,216651	-5,83363
NSMCE2	0,310586	6,624973	1,862394	0,11684	0,216651	-5,83371
AFF1	-0,27403	8,065399	-1,86162	0,11696	0,216832	-5,83474
SIX1	1,623455	1,811727	1,861479	0,116982	0,216832	-5,83493
NBPF14	-1,93578	1,301226	-1,86126	0,117016	0,216832	-5,83522
ROS1	1,935785	1,301226	1,861263	0,117016	0,216832	-5,83522
EMX2OS	1,935785	1,301226	1,861263	0,117016	0,216832	-5,83522
ICMT	-0,43227	5,902839	-1,86118	0,117029	0,216832	-5,83534
ZNF284	-0,92587	3,506029	-1,8606	0,117119	0,216969	-5,83611
CORO7	-0,48827	5,618633	-1,8605	0,117134	0,216969	-5,83624
FGFR1OP	0,447662	5,69354	1,860244	0,117175	0,217016	-5,83659
SMUG1	-2,07445	3,560509	-1,85981	0,117242	0,217112	-5,83716
RRN3P3	-0,59772	4,704444	-1,85928	0,117325	0,217237	-5,83787
CWC25	0,270832	7,62456	1,858287	0,117481	0,217497	-5,8392
TMEM176A	-0,82707	3,725748	-1,85683	0,117709	0,217891	-5,84115
ATP6V0A2	0,295652	6,910457	1,855587	0,117905	0,218224	-5,84282
NKAPL	0,750513	3,108481	1,855356	0,117941	0,218263	-5,84313
MICALL1	-1,27368	4,160127	-1,85496	0,118003	0,21835	-5,84366
GFER	-2,01671	3,448996	-1,85465	0,118052	0,218411	-5,84407
SLC25A25	-0,72598	4,827633	-1,8544	0,118091	0,218455	-5,8444
ORC2	0,379999	7,362882	1,854168	0,118128	0,218494	-5,84472
MYC	0,312945	6,929127	1,853674	0,118205	0,218583	-5,84538

TTC31	-1,65366	4,805712	-1,85367	0,118206	0,218583	-5,84538
CROT	-0,59056	5,074393	-1,85308	0,118299	0,218702	-5,84617
ZNF552	-2,02749	3,432873	-1,85306	0,118302	0,218702	-5,84619
HINFP	0,433465	4,877968	1,852318	0,118419	0,218891	-5,84719
MTR	0,275087	8,970009	1,851969	0,118474	0,218964	-5,84766
BEND5	0,629859	4,668832	1,851458	0,118555	0,219084	-5,84834
ZNF564	-1,19499	1,792481	-1,85104	0,118621	0,219177	-5,8489
SIX3	2,107309	1,386988	1,850255	0,118745	0,219379	-5,84995
THEMIS	0,342279	7,258266	1,850146	0,118763	0,219382	-5,85009
WNT16	1,723308	1,63563	1,850029	0,118781	0,219387	-5,85025
DHX40	0,374458	7,363556	1,849626	0,118845	0,219477	-5,85079
NFE2L2	-0,32381	9,371614	-1,84952	0,118862	0,219478	-5,85093
CPSF1	0,306215	5,022718	1,849374	0,118885	0,219493	-5,85112
GFOD1	0,24751	7,139455	1,849128	0,118924	0,219536	-5,85145
TRAPPC2L	-0,56191	6,409058	-1,84872	0,118989	0,219628	-5,852
SNX20	0,298976	7,627676	1,847942	0,119112	0,219826	-5,85304
ZNF691	0,912322	1,846136	1,847771	0,119139	0,219848	-5,85327
ATG10	1,136978	4,324084	1,847345	0,119207	0,219937	-5,85384
MDC1	0,401047	6,348678	1,84727	0,119219	0,219937	-5,85394
IFI16	-0,24157	10,23919	-1,84679	0,119295	0,220048	-5,85457
GALNT11	-0,42534	7,020593	-1,84667	0,119314	0,220056	-5,85474
SPIN1	-0,25389	7,91418	-1,84647	0,119346	0,220086	-5,85501
OR4D9	1,566813	1,840048	1,845505	0,1195	0,22034	-5,8563
TTC1	0,231465	7,836008	1,844209	0,119706	0,220692	-5,85803
LINC00494	-1,3023	1,425124	-1,84391	0,119754	0,220751	-5,85843
KRT72	0,487682	4,851763	1,843764	0,119777	0,220755	-5,85862
NAA40	-2,12211	2,394387	-1,8437	0,119787	0,220755	-5,8587
GTPBP3	-0,78687	5,063259	-1,84301	0,119898	0,220853	-5,85963
HERC1	0,289368	8,635905	1,842913	0,119913	0,220853	-5,85976
SAMD5	1,723308	1,194988	1,842608	0,119962	0,220853	-5,86017
MOCOS	1,723308	1,194988	1,842608	0,119962	0,220853	-5,86017
RBM20	1,723308	1,194988	1,842608	0,119962	0,220853	-5,86017
SPNS1	1,723308	1,194988	1,842608	0,119962	0,220853	-5,86017
TRIP11	0,338727	8,748151	1,84259	0,119965	0,220853	-5,86019
KLF8	-1,70396	2,733263	-1,84259	0,119965	0,220853	-5,86019
PPP4C	-0,38041	6,465458	-1,84248	0,119982	0,220855	-5,86033
ABCA12	1,602452	1,329547	1,842134	0,120038	0,220929	-5,8608
SGTA	0,461024	6,64391	1,841901	0,120075	0,220969	-5,86111
AMH	1,890808	0,945404	1,841298	0,120172	0,221051	-5,86192
BCL2L10	1,890808	0,945404	1,841298	0,120172	0,221051	-5,86192
GHDC	0,396176	4,016531	1,841281	0,120174	0,221051	-5,86194
ERGIC2	0,282937	8,852313	1,841212	0,120185	0,221051	-5,86203
RAD51C	-1,13021	5,10342	-1,84098	0,120222	0,221051	-5,86234
PNPLA2	-1,17782	5,853781	-1,84096	0,120227	0,221051	-5,86237
ZNF511	-2,22313	3,867161	-1,84094	0,120229	0,221051	-5,86239
KIAA1841	0,655261	4,653391	1,839704	0,120427	0,221386	-5,86404
PMS1	0,277908	6,497271	1,838927	0,120552	0,221587	-5,86508
CIDECP	-0,53863	4,316897	-1,83876	0,120578	0,221606	-5,8653
ZNF483	1,897829	2,810569	1,83829	0,120655	0,221718	-5,86593
FZD7	-1,52832	2,349123	-1,838	0,1207	0,221773	-5,86631
DGKD	0,354862	8,561779	1,837788	0,120735	0,221808	-5,8666
DHODH	0,381742	3,580846	1,836791	0,120896	0,222075	-5,86793

PHRF1	0,324308	7,371127	1,835712	0,12107	0,222365	-5,86937
PTPRA	-0,33744	7,68783	-1,83553	0,121098	0,222365	-5,86961
MED9	0,408396	4,66182	1,835517	0,121101	0,222365	-5,86963
CORO2A	0,364275	5,713764	1,834204	0,121313	0,222726	-5,87138
AGBL2	0,9202	3,590873	1,833813	0,121377	0,222813	-5,87191
MAX	0,282615	9,411728	1,833674	0,121399	0,222826	-5,87209
HECW1	1,395289	2,138287	1,833515	0,121425	0,222844	-5,8723
PTGR2	-1,616	2,689285	-1,83276	0,121548	0,22304	-5,87331
APOOL	-0,72884	5,886199	-1,8323	0,121622	0,223147	-5,87392
TEX261	0,535346	6,296036	1,832189	0,12164	0,223151	-5,87407
ZFP37	0,372596	4,272094	1,831943	0,12168	0,223195	-5,8744
ZNF10	0,777525	4,030367	1,831842	0,121696	0,223197	-5,87453
DLG3	0,704785	5,235328	1,831639	0,121729	0,223228	-5,8748
NMD3	-0,41592	6,186037	-1,83106	0,121822	0,223364	-5,87557
PPT2	-1,3568	1,452374	-1,83099	0,121835	0,223364	-5,87568
RACGAP1	-0,40917	4,069671	-1,83072	0,121878	0,223415	-5,87603
ACAA2	-0,84874	5,757586	-1,83029	0,121948	0,223513	-5,8766
ZNF836	0,471292	5,031876	1,8301	0,121979	0,22353	-5,87686
COMMD1	-0,70733	5,388094	-1,83004	0,121989	0,22353	-5,87694
RXRB	0,492747	5,828947	1,829823	0,122024	0,223566	-5,87723
ZBTB26	0,589443	4,345272	1,826328	0,122594	0,224503	-5,88189
BARX2	1,87157	1,269118	1,82627	0,122603	0,224503	-5,88196
CACNA1G	1,87157	1,269118	1,82627	0,122603	0,224503	-5,88196
ZNF716	1,87157	1,269118	1,82627	0,122603	0,224503	-5,88196
AXIN1	0,333434	5,509396	1,8262	0,122615	0,224503	-5,88206
SULT1C2	1,497284	1,748642	1,825864	0,12267	0,224575	-5,8825
ZNF740	-0,51235	6,353245	-1,82494	0,122821	0,224822	-5,88374
MZT1	0,329523	6,699222	1,824828	0,122839	0,224826	-5,88388
FCHSD2	-0,33696	6,58071	-1,8246	0,122876	0,224835	-5,88419
PSME3	-0,29735	6,481377	-1,82459	0,122878	0,224835	-5,8842
RAB24	-0,65701	4,524742	-1,82451	0,122892	0,224835	-5,88431
MED13	0,312202	8,91702	1,82427	0,122931	0,224872	-5,88463
DDX50	0,261479	8,361148	1,82419	0,122944	0,224872	-5,88474
ELMO1	0,305467	6,971545	1,822602	0,123205	0,225248	-5,88685
RAB40C	-1,91692	2,965918	-1,82236	0,123244	0,225248	-5,88717
RWDD2A	0,853798	3,924183	1,822033	0,123298	0,225248	-5,88761
CD70	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
HIST1H3E	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
HRASLS2	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
KIR2DS4	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
KITLG	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
KLF1	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
NHSL1	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
POLQ	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
RBP7	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
TTC23L	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
DLEC1	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
FBXO36	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
LTBR2	-1,19499	0,597494	-1,82139	0,123405	0,225248	-5,88847
SAMSN1	-0,22882	9,544233	-1,82087	0,12349	0,225376	-5,88916
WDR48	0,261697	7,18562	1,820374	0,123571	0,225494	-5,88982
NKIRAS2	-0,92217	5,349271	-1,82011	0,123614	0,225521	-5,89017

C16orf87	-0,28839	6,648261	-1,82009	0,123618	0,225521	-5,89019
KCTD6	-0,69341	4,846987	-1,81998	0,123636	0,225524	-5,89034
PKD2	-1,97465	3,339088	-1,8198	0,123666	0,225551	-5,89058
SRPK1	0,267845	7,083223	1,819118	0,123778	0,225719	-5,89149
NOP16	0,306799	6,792244	1,818997	0,123798	0,225719	-5,89165
ICA1	0,872224	3,461717	1,81895	0,123806	0,225719	-5,89171
AMFR	0,282481	7,629125	1,81841	0,123895	0,225852	-5,89243
TNPO3	0,254786	8,044383	1,817901	0,123979	0,225976	-5,89311
C12orf77	1,659093	1,16288	1,817567	0,124034	0,225997	-5,89356
EDN3	1,659093	1,16288	1,817567	0,124034	0,225997	-5,89356
PSMB8	-0,24827	8,714394	-1,81753	0,124041	0,225997	-5,89361
SF3A2	0,777067	4,317834	1,817288	0,124081	0,225997	-5,89393
EIF3I	0,343961	6,902462	1,817276	0,124083	0,225997	-5,89394
SCYL1	-1,4744	4,573131	-1,81725	0,124087	0,225997	-5,89398
ZFH2	1,074131	2,172696	1,817078	0,124115	0,226016	-5,89421
TRAF2	0,393047	4,632589	1,816995	0,124129	0,226016	-5,89432
PEX5	-1,78455	3,056224	-1,81681	0,12416	0,226044	-5,89457
TNFAIP8L2	-1,99243	3,210832	-1,81636	0,124234	0,226133	-5,89516
MARK4	-0,86419	3,531832	-1,81632	0,124241	0,226133	-5,89522
ACADS	-2,19713	3,474992	-1,81581	0,124326	0,226258	-5,8959
MUL1	0,430894	5,207784	1,815707	0,124342	0,226259	-5,89603
TUBG2	-1,21845	1,716535	-1,81558	0,124364	0,226269	-5,8962
ANKMY1	-0,84279	3,257328	-1,81545	0,124385	0,226278	-5,89637
ZNF211	0,453353	4,790337	1,815023	0,124456	0,226378	-5,89694
PNPT1	0,679158	5,739317	1,814694	0,12451	0,226448	-5,89738
IGSF3	0,912322	1,512803	1,814347	0,124568	0,226524	-5,89784
TMBIM1	-0,30088	6,644372	-1,8142	0,124592	0,226539	-5,89804
EIF5B	0,251687	10,38419	1,81375	0,124667	0,226646	-5,89864
SLC35A1	-0,94556	6,554855	-1,8134	0,124725	0,226699	-5,8991
BCAT1	0,564687	6,055809	1,81338	0,124729	0,226699	-5,89913
ALKBH6	-1,06094	3,666936	-1,81307	0,124781	0,226766	-5,89955
CCDC150	1,625915	2,2536	1,812023	0,124955	0,22705	-5,90093
PCBP1	-0,22148	10,83389	-1,81193	0,12497	0,22705	-5,90105
ZNF615	0,47373	5,208451	1,811745	0,125001	0,227077	-5,9013
TCEANC2	0,400755	5,923477	1,810692	0,125177	0,227367	-5,90271
ZMYM2	0,378038	8,264257	1,810419	0,125222	0,227414	-5,90307
A2MP1	2,043094	1,354881	1,810248	0,125251	0,227414	-5,90329
PKD2L1	2,043094	1,354881	1,810248	0,125251	0,227414	-5,90329
EFHB	2,311033	2,262826	1,809394	0,125393	0,227626	-5,90443
CLP1	0,374794	5,494181	1,809356	0,1254	0,227626	-5,90448
MYL6B	0,497204	4,041006	1,809118	0,12544	0,227669	-5,9048
IQGAP3	1,968964	0,984482	1,808648	0,125518	0,227783	-5,90542
MCFD2	0,336542	7,784421	1,808479	0,125547	0,227791	-5,90565
OR52A1	2,389975	1,528321	1,808411	0,125558	0,227791	-5,90574
HIST1H2AE	-1,13077	1,760374	-1,80833	0,125571	0,227791	-5,90584
PDLIM2	-0,44268	5,644074	-1,80763	0,125688	0,227975	-5,90677
DSN1	-2,49308	4,405795	-1,80738	0,125731	0,228022	-5,90711
USP33	0,256332	9,181502	1,807274	0,125748	0,228025	-5,90725
FANCG	-1,49558	3,45063	-1,80714	0,12577	0,228035	-5,90742
IKZF5	0,284377	6,988375	1,806862	0,125818	0,228046	-5,9078
CDNF	1,602452	1,134559	1,806821	0,125824	0,228046	-5,90785
14-set	1,602452	1,134559	1,806821	0,125824	0,228046	-5,90785

SAMD9	-0,22164	8,495275	-1,80662	0,125858	0,228077	-5,90812
TNFRSF14	-0,56387	8,116636	-1,80599	0,125964	0,228241	-5,90896
CEP170	-0,34962	7,037971	-1,80534	0,126073	0,228386	-5,90982
GPAA1	-0,74294	5,08572	-1,80532	0,126077	0,228386	-5,90985
PAFAH2	-0,41588	6,205041	-1,80519	0,126098	0,228396	-5,91002
MKLN1	0,26651	7,785844	1,804881	0,12615	0,228461	-5,91043
MED19	-0,59716	5,442478	-1,80434	0,126242	0,228597	-5,91116
B4GALT4	0,528434	5,144186	1,804185	0,126268	0,228614	-5,91136
CHD1L	0,264098	6,681495	1,802736	0,126512	0,229027	-5,91328
KAT5	-0,37187	6,445866	-1,80129	0,126755	0,229416	-5,9152
CSK	-0,2582	6,815461	-1,80127	0,126759	0,229416	-5,91523
HEXDC	-2,33391	4,149745	-1,80116	0,126778	0,229421	-5,91538
SBDSP1	0,493654	5,842297	1,800522	0,126886	0,229586	-5,91622
DCC	1,989875	2,630568	1,800282	0,126926	0,22963	-5,91654
CCDC28A	-0,48494	7,514413	-1,80001	0,126971	0,229683	-5,9169
TTI2	0,534435	4,974287	1,798972	0,127148	0,229973	-5,91828
RSPRY1	0,441664	6,412609	1,798747	0,127186	0,230013	-5,91858
AGMAT	-1,57142	1,785708	-1,79834	0,127255	0,230107	-5,91912
EEF1G	0,911118	3,336844	1,798237	0,127273	0,23011	-5,91926
MYADM	-0,44633	6,891562	-1,79796	0,12732	0,230166	-5,91963
SNTB1	-0,49956	6,466112	-1,79692	0,127497	0,230456	-5,92101
SEC62	0,231702	10,27692	1,796771	0,127522	0,230472	-5,9212
NOL12	-1,20439	4,125478	-1,79433	0,127937	0,231194	-5,92444
ESF1	0,269214	8,96167	1,7941	0,127977	0,231235	-5,92475
ZNF496	0,645663	4,215405	1,793839	0,128021	0,231286	-5,92509
CRNKL1	0,391457	6,911463	1,793395	0,128097	0,231385	-5,92568
TMEM237	-1,55178	2,549868	-1,79333	0,128109	0,231385	-5,92577
MADD	0,290092	6,130371	1,793149	0,128139	0,23141	-5,92601
ARMCX2	-1,78752	2,691201	-1,7929	0,128182	0,231458	-5,92634
PSIP1	-0,36403	9,597349	-1,79243	0,128263	0,231575	-5,92697
MRI1	-0,50635	5,676704	-1,79215	0,12831	0,231629	-5,92733
CWC15	0,284036	8,772874	1,792027	0,128331	0,231638	-5,9275
PHF20	0,304013	7,797263	1,790856	0,128532	0,231971	-5,92905
VTRNA1-1	2,398799	1,72772	1,790729	0,128553	0,231981	-5,92922
MRPS15	-0,62354	5,27061	-1,79041	0,128608	0,23205	-5,92965
TTC34	1,1675	3,835379	1,790288	0,128629	0,232058	-5,92981
SMC2	-0,27465	8,034605	-1,78954	0,128757	0,232259	-5,9308
WDR77	-1,90081	3,219522	-1,78731	0,12914	0,232889	-5,93375
MICA	-1,52832	2,645446	-1,78714	0,12917	0,232889	-5,93398
MIER2	-1,52832	2,645446	-1,78714	0,12917	0,232889	-5,93398
ZNF526	0,610987	5,005221	1,787128	0,129172	0,232889	-5,934
AKAP5	0,42632	5,704078	1,786298	0,129315	0,233117	-5,9351
FBXL20	0,424728	6,8513	1,786108	0,129348	0,233146	-5,93535
PPFIBP2	-1,24485	3,78235	-1,78589	0,129385	0,233184	-5,93563
SLC2A3	-0,39007	9,55962	-1,78575	0,12941	0,233199	-5,93583
POP1	-0,91369	4,821869	-1,78546	0,12946	0,233259	-5,93621
FSIP1	-1,28267	1,415309	-1,78511	0,129521	0,233338	-5,93667
RNF20	-0,29236	7,607321	-1,78402	0,129708	0,233647	-5,93811
LONP2	0,341219	7,919992	1,783859	0,129736	0,233668	-5,93833
LAGE3	-2,42278	4,11614	-1,78345	0,129807	0,233764	-5,93887
PABPC1	0,225256	12,64139	1,781993	0,13006	0,23419	-5,9408
USP53	0,326918	6,941258	1,781387	0,130165	0,23435	-5,9416

SDHC	-0,26453	8,375569	-1,78062	0,130298	0,23456	-5,94262
TRAPPC2	0,383119	6,688489	1,780234	0,130365	0,23465	-5,94313
COMMD5	-2,67589	4,82442	-1,77957	0,13048	0,234828	-5,94401
MYPOP	-0,49439	5,159398	-1,77883	0,13061	0,235031	-5,94499
POLR2C	0,225707	6,760725	1,77838	0,130688	0,235142	-5,94559
GPD1L	-1,21815	5,337058	-1,77767	0,130812	0,235334	-5,94653
TSR1	0,306245	6,793861	1,777161	0,1309	0,235435	-5,9472
PARP4	-0,51757	6,130826	-1,7768	0,130963	0,235435	-5,94768
HSD11B1L	-1,26912	0,634559	-1,77678	0,130968	0,235435	-5,94771
CHST9	-1,26912	0,634559	-1,77678	0,130968	0,235435	-5,94771
MAMDC4	-1,26912	0,634559	-1,77678	0,130968	0,235435	-5,94771
TDRD9	-1,26912	0,634559	-1,77678	0,130968	0,235435	-5,94771
ZNF674	-2,12789	3,84241	-1,77662	0,130995	0,235454	-5,94792
RNF149	0,270072	8,349566	1,776014	0,131101	0,235615	-5,94872
HBB	0,981608	7,954395	1,775759	0,131145	0,235665	-5,94906
LARP7	-0,23459	9,157473	-1,77565	0,131165	0,23567	-5,9492
LRRC8C	0,223991	8,010745	1,775552	0,131181	0,23567	-5,94933
ARF6	-0,35538	9,194926	-1,77536	0,131215	0,235685	-5,94958
WDHD1	-0,8752	3,814028	-1,77531	0,131223	0,235685	-5,94964
ZCCHC3	0,304963	7,673894	1,774516	0,131363	0,235906	-5,9507
UFM1	0,217836	8,871045	1,77392	0,131467	0,236061	-5,95149
PRPF31	0,468245	5,640714	1,773832	0,131483	0,236061	-5,95161
CCDC34	-0,9909	4,824417	-1,77215	0,131778	0,236556	-5,95383
LAMA2	1,497284	1,610296	1,77207	0,131792	0,236556	-5,95394
C20orf96	1,245655	1,817815	1,771805	0,131838	0,236589	-5,95429
GALM	-0,44156	6,901562	-1,77168	0,13186	0,236589	-5,95445
SUPT7L	-0,69508	5,510657	-1,77168	0,13186	0,236589	-5,95445
CASP10	0,466956	5,973453	1,771254	0,131935	0,236693	-5,95502
CDKN2B-AS	-1,60245	1,575202	-1,77102	0,131977	0,236715	-5,95533
SYNM	0,550673	5,013443	1,770966	0,131986	0,236715	-5,9554
C7orf26	0,246723	6,165603	1,770848	0,132007	0,236715	-5,95555
TPRA1	-1,28267	4,296594	-1,7708	0,132015	0,236715	-5,95561
GFM1	-0,35608	7,695723	-1,77027	0,132108	0,236853	-5,95631
HSD17B7	0,922518	3,648673	1,769689	0,132211	0,237008	-5,95709
GCC2	0,272076	10,49247	1,76912	0,132311	0,237144	-5,95784
TRPC6	1,74294	1,978779	1,769007	0,132331	0,237144	-5,95799
MEIS1	1,251629	1,733124	1,768972	0,132338	0,237144	-5,95803
TSPAN13	0,456062	5,358468	1,767733	0,132556	0,237506	-5,95967
ZNF212	0,510154	5,338189	1,767055	0,132676	0,237675	-5,96057
HSPA1L	0,822325	5,277064	1,767009	0,132684	0,237675	-5,96063
C12orf43	-0,66982	4,686671	-1,76447	0,133134	0,23845	-5,96398
INO80E	0,335229	6,650557	1,764147	0,133192	0,238523	-5,96441
BAD	0,492977	4,359772	1,763202	0,13336	0,238781	-5,96566
ADD1	0,248693	8,34818	1,763147	0,133369	0,238781	-5,96573
GALNT7	-0,6618	6,70761	-1,76298	0,133399	0,238798	-5,96596
AKAP7	0,415923	6,202808	1,762904	0,133413	0,238798	-5,96605
ACTR8	-0,7052	5,060748	-1,76272	0,133445	0,238812	-5,96629
FNIP1	-0,22014	8,051428	-1,76267	0,133454	0,238812	-5,96636
PDAP1	0,332592	6,884915	1,762207	0,133537	0,238911	-5,96697
RAD50	0,835579	4,322538	1,76217	0,133543	0,238911	-5,96702
ABCC4	-0,43331	5,799944	-1,76167	0,133633	0,239032	-5,96769
TCP1	0,242556	8,26415	1,761511	0,133661	0,239032	-5,96789

WRB	-2,23029	4,015292	-1,7615	0,133662	0,239032	-5,9679
CLIP2	-1,67264	2,717606	-1,76079	0,133789	0,239229	-5,96884
FBXO32	0,285717	7,734596	1,759747	0,133975	0,239532	-5,97022
CHSY1	-0,42283	6,709169	-1,75796	0,134295	0,240074	-5,97258
IL7	-1,46411	3,108481	-1,75771	0,13434	0,240123	-5,97291
CERS4	-1,14826	2,492427	-1,75748	0,134381	0,24014	-5,97322
PEG3	1,63563	1,484482	1,757449	0,134387	0,24014	-5,97326
CACNG6	-1,59254	1,732053	-1,75735	0,134404	0,24014	-5,97338
YIPF3	-0,50432	6,244289	-1,75728	0,134418	0,24014	-5,97348
MAP3K9	1,333333	1,723308	1,756703	0,13452	0,240288	-5,97424
FBXL5	-0,39062	7,715821	-1,75662	0,134534	0,240288	-5,97434
CRY1	0,319365	6,819494	1,756024	0,134642	0,24045	-5,97514
TRA2A	-0,23926	9,173696	-1,75586	0,134671	0,240453	-5,97535
SPG7	0,397243	7,685029	1,755827	0,134677	0,240453	-5,9754
CD200R1	0,470446	5,455816	1,7555	0,134736	0,240527	-5,97583
FBXL19	-1,16395	3,51776	-1,75492	0,134841	0,240684	-5,9766
SEC61B	-0,32707	9,145767	-1,7548	0,134862	0,240692	-5,97675
CCDC127	0,493018	6,206741	1,75428	0,134955	0,240824	-5,97744
RSAD1	0,684967	5,249374	1,754196	0,134971	0,240824	-5,97755
DDX58	-0,23482	6,739557	-1,75402	0,135002	0,24085	-5,97778
BTNL9	-1,55178	1,549868	-1,75101	0,135544	0,241787	-5,98175
LAG3	-0,78132	3,226591	-1,75092	0,135562	0,241788	-5,98188
ACLY	-0,31917	7,597792	-1,75063	0,135614	0,241849	-5,98225
RP9P	-1,18527	2,140588	-1,75042	0,135652	0,241887	-5,98253
SMCR8	0,331037	7,866721	1,750154	0,1357	0,241942	-5,98288
RGS3	0,696408	5,014753	1,750025	0,135723	0,241953	-5,98305
SLC1A2	1,800767	2,762038	1,749751	0,135773	0,242011	-5,98341
GPATCH4	0,279221	7,175012	1,749359	0,135844	0,242073	-5,98393
TMEM199	0,233544	7,096876	1,749328	0,135849	0,242073	-5,98397
MICALL2	0,791465	2,314028	1,749276	0,135859	0,242073	-5,98404
KDM4A	-0,23352	6,97285	-1,74889	0,135928	0,242166	-5,98454
SHANK2	1,881285	1,468964	1,748747	0,135955	0,242183	-5,98473
AKIP1	-2,38419	4,328561	-1,74804	0,136084	0,242382	-5,98567
PHEX	0,860282	3,494239	1,747862	0,136115	0,242408	-5,9859
SDF4	0,221167	8,180712	1,747378	0,136203	0,242533	-5,98654
FAM199X	0,293669	6,97617	1,746346	0,136391	0,242837	-5,9879
ZNF486	0,290035	5,059962	1,746133	0,136429	0,242875	-5,98818
GCFC2	-0,94015	4,757881	-1,74559	0,136528	0,24302	-5,98889
FKTN	0,237628	5,115604	1,745367	0,136569	0,243062	-5,98919
CSRNP2	-1,88633	3,445764	-1,74456	0,136715	0,243292	-5,99025
PIWIL4	-0,76426	2,930082	-1,74438	0,136749	0,243308	-5,99049
CDADC1	-0,90798	5,353705	-1,74432	0,136759	0,243308	-5,99056
FMO4	-1	1,361654	-1,74345	0,136919	0,243501	-5,99172
CTAGE7P	-1	1,361654	-1,74345	0,136919	0,243501	-5,99172
STAG3L3	-1	1,361654	-1,74345	0,136919	0,243501	-5,99172
MIR17HG	0,610025	2,13563	1,743043	0,136992	0,243602	-5,99225
NDUFB6	-0,52919	6,660949	-1,74262	0,13707	0,243708	-5,9928
NDOR1	-1,33333	0,666667	-1,74205	0,137173	0,243831	-5,99355
TDGF1P3	1,333333	0,666667	1,742055	0,137173	0,243831	-5,99355
SUCLG1	-0,29585	7,718254	-1,74158	0,137259	0,243953	-5,99417
CNEP1R1	-0,68502	5,843123	-1,74129	0,137314	0,244019	-5,99456
TTF1	0,371818	7,592142	1,74057	0,137445	0,244222	-5,9955

ANAPC5	0,261305	8,712524	1,740087	0,137533	0,244348	-5,99614
DIMT1	-2,58347	4,680876	-1,73935	0,137668	0,244557	-5,99711
LGR6	0,416288	4,86938	1,738034	0,13791	0,244935	-5,99884
RNF217	-0,92655	5,163168	-1,73794	0,137928	0,244935	-5,99897
ZNF317	0,461182	4,900651	1,737912	0,137933	0,244935	-5,999
WDR92	-0,90861	4,77358	-1,73645	0,138202	0,245383	-6,00093
CEP78	-0,41524	7,338013	-1,73543	0,138389	0,245667	-6,00226
TMEM47	1,955416	2,367683	1,735391	0,138397	0,245667	-6,00232
MSH2	0,273475	6,850411	1,734815	0,138503	0,245824	-6,00308
ATF1	-0,29882	7,790938	-1,7347	0,138524	0,24583	-6,00322
PXMP4	-1,8794	3,291462	-1,73394	0,138665	0,246049	-6,00423
TADA2A	-0,4083	6,227088	-1,73379	0,138694	0,24607	-6,00443
ZNF655	0,244547	8,112655	1,733351	0,138774	0,246181	-6,005
ZKSCAN2	1,230904	3,005427	1,733077	0,138825	0,246224	-6,00536
GABRA1	2,18144	1,619041	1,733033	0,138833	0,246224	-6,00542
CATSPERD	2,17972	1,08986	1,732919	0,138854	0,24623	-6,00557
TATDN2	0,332529	6,357303	1,732692	0,138896	0,246274	-6,00587
ZNF333	0,527348	5,549733	1,732273	0,138974	0,246381	-6,00642
TOMM40	0,415523	6,668805	1,732028	0,139019	0,24643	-6,00674
PSMG2	0,272635	7,269872	1,731583	0,139101	0,246545	-6,00733
UTP14A	0,458969	5,600298	1,731262	0,139161	0,24662	-6,00775
ULK3	-0,65926	6,47885	-1,73097	0,139215	0,246663	-6,00813
FBR5	0,257803	7,297412	1,730944	0,13922	0,246663	-6,00817
RGS18	0,526367	7,116324	1,730364	0,139328	0,246823	-6,00893
ZNF783	0,8321	4,075143	1,729575	0,139474	0,247051	-6,00997
ETV6	-0,24257	8,432351	-1,72838	0,139696	0,247413	-6,01153
N4BP2L2	-0,25527	10,30701	-1,72795	0,139777	0,247525	-6,0121
PPP2R2D	0,495753	7,172584	1,727324	0,139893	0,247655	-6,01292
ZNF675	0,468054	5,929026	1,727321	0,139894	0,247655	-6,01293
SHARPIN	-0,95925	3,616088	-1,72727	0,139903	0,247655	-6,01299
ZNF582	-1,37917	2,46356	-1,72696	0,139962	0,247716	-6,01341
USE1	0,467987	4,629107	1,7269	0,139973	0,247716	-6,01348
LSM6	-0,41749	7,324113	-1,72677	0,139996	0,247727	-6,01364
CDCA7	-2,02346	3,685854	-1,72615	0,140112	0,247901	-6,01446
USP51	-0,94973	3,504017	-1,72561	0,140214	0,24805	-6,01518
MRPL53	0,744822	3,939802	1,724762	0,140372	0,248299	-6,01629
ZNF624	0,410674	5,42593	1,723852	0,140542	0,248542	-6,01748
LIX1L	-0,35054	7,158434	-1,72378	0,140556	0,248542	-6,01757
SDCCAG8	0,235977	7,346377	1,723498	0,140609	0,248542	-6,01795
KLRC4	-1,49514	1,521547	-1,72344	0,140619	0,248542	-6,01802
SAP30BP	0,2327	7,068531	1,723315	0,140643	0,248542	-6,01819
ORAI2	0,255802	6,641779	1,722904	0,14072	0,248542	-6,01873
PEX5L	1,547952	1,107309	1,722801	0,140739	0,248542	-6,01886
ZBTB8A	1,547952	1,107309	1,722801	0,140739	0,248542	-6,01886
HNRNPAB	-0,2501	7,886204	-1,72272	0,140755	0,248542	-6,01897
LAYN	-1,48648	2,378869	-1,7226	0,140777	0,248542	-6,01912
PLOD2	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922
HAS2	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922
MYCNOS	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922
PCDH19	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922
SLC14A2	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922
TRIM71	1,497284	1,081976	1,722529	0,14079	0,248542	-6,01922

MLXIP	0,24397	6,760174	1,722426	0,14081	0,248544	-6,01935
TMEM123	-0,27504	10,62126	-1,72194	0,140901	0,248675	-6,01999
KIAA0586	0,351672	7,307349	1,721198	0,14104	0,24889	-6,02097
PSMB2	-0,26108	7,598457	-1,72069	0,141135	0,249026	-6,02163
DPY30	-0,78923	6,047242	-1,72053	0,141165	0,249047	-6,02184
RAB5A	-0,21989	8,165647	-1,72015	0,141237	0,249144	-6,02234
BBS10	0,756182	4,334879	1,719542	0,141352	0,249301	-6,02314
ZBTB34	-0,56972	5,196446	-1,71947	0,141366	0,249301	-6,02324
STAG2	0,219992	10,30501	1,719266	0,141404	0,249301	-6,0235
CACNG2	1,440643	1,053655	1,719211	0,141414	0,249301	-6,02357
GOLGA6L1	1,440643	1,053655	1,719211	0,141414	0,249301	-6,02357
IER3IP1	-0,22851	7,800264	-1,71875	0,141501	0,249397	-6,02417
A1BG-AS1	-1,46165	2,666608	-1,71873	0,141504	0,249397	-6,0242
LZTFL1	0,288118	5,644194	1,718483	0,141552	0,249449	-6,02453
ARHGAP9	-0,38296	7,796843	-1,71711	0,14181	0,249874	-6,02632
PI4KA	-1,0686	4,848103	-1,71667	0,141894	0,249991	-6,0269
KCNN4	-1,44766	4,653132	-1,71654	0,141919	0,250003	-6,02707
TRIM36	0,578989	3,527576	1,715661	0,142085	0,250264	-6,02823
SERPINB6	-1,59628	4,937425	-1,71525	0,142163	0,25033	-6,02877
RB1	-0,29048	8,255427	-1,71517	0,142177	0,25033	-6,02886
FOXA2	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
GPR37	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
IGF2BP1	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
KLHL35	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
MAPT-AS1	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
NYAP2	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
OR5B12	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
SLC17A7	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
SP6	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
SYCE2	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
VGLL3	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
ZSCAN10	1,389975	0,694988	1,714155	0,14237	0,25033	-6,0302
NFYB	0,34067	7,598176	1,713665	0,142464	0,250463	-6,03084
WIPF2	-0,28901	7,834009	-1,7129	0,142608	0,250687	-6,03184
ARL17B	0,812468	2,87034	1,712739	0,142639	0,25071	-6,03206
MRPL45P2	1,171524	2,521547	1,711625	0,142851	0,25092	-6,03352
ADCY4	1,709761	1,188214	1,711614	0,142853	0,25092	-6,03353
MIR4510	1,709761	1,188214	1,711614	0,142853	0,25092	-6,03353
OR2F1	1,709761	1,188214	1,711614	0,142853	0,25092	-6,03353
PKD1L1	1,709761	1,188214	1,711614	0,142853	0,25092	-6,03353
PHC3	0,210352	8,919625	1,711551	0,142865	0,25092	-6,03361
LINGO2	1,376428	1,021547	1,71071	0,143026	0,251139	-6,03471
RAD51AP2	1,376428	1,021547	1,71071	0,143026	0,251139	-6,03471
DPP8	0,281203	8,624444	1,710444	0,143076	0,251197	-6,03506
MAP7D3	-0,3657	6,775903	-1,70928	0,143298	0,251554	-6,03658
UFC1	0,251503	8,814672	1,708992	0,143353	0,251601	-6,03696
HLA-E	-0,33166	10,62673	-1,70896	0,14336	0,251601	-6,03701
PIF1	-1,47765	2,179469	-1,70869	0,143411	0,251659	-6,03736
MRPL30	-1,2178	5,991579	-1,70837	0,143473	0,251736	-6,03778
PITRM1	0,3243	5,284258	1,708196	0,143506	0,251744	-6,03801
MAML1	0,312822	7,719466	1,708158	0,143513	0,251744	-6,03806
SYP	2,067647	1,562144	1,70741	0,143656	0,251964	-6,03904

ZNF506	0,33466	5,943824	1,706917	0,14375	0,252098	-6,03968
NSMCE1	0,465969	6,166753	1,706654	0,143801	0,252115	-6,04003
SUPT6H	0,266504	6,470171	1,706625	0,143806	0,252115	-6,04006
HIST1H2BC	-1,52832	1,699945	-1,70659	0,143814	0,252115	-6,04011
TGFB1	-0,63446	5,268983	-1,7045	0,144214	0,252786	-6,04284
E2F5	0,583893	5,007682	1,703295	0,144446	0,253161	-6,04442
HECA	0,2186	9,511209	1,702714	0,144558	0,253326	-6,04518
INTS5	-0,71777	5,935989	-1,70248	0,144603	0,253374	-6,04549
SMARCD3	-1,68482	3,011673	-1,70125	0,14484	0,253756	-6,04709
ENOX2	0,447439	5,586649	1,700444	0,144995	0,253998	-6,04815
GRASP	-1,69985	2,647362	-1,70013	0,145056	0,254072	-6,04856
TOM1L1	0,912322	1,317815	1,699892	0,145102	0,254076	-6,04887
ANKS1B	0,912322	2,317815	1,699892	0,145102	0,254076	-6,04887
BCL9	-1,28267	3,276963	-1,69984	0,145113	0,254076	-6,04894
ZMYM1	-0,54783	5,461985	-1,69975	0,14513	0,254076	-6,04906
YLPM1	0,280233	8,973268	1,699278	0,145221	0,254204	-6,04967
RBM6	0,353367	8,413736	1,699105	0,145255	0,254231	-6,0499
SLC22A5	-0,74359	4,300008	-1,69896	0,145282	0,254243	-6,05008
CDC14B	-1,1775	3,493498	-1,69888	0,145297	0,254243	-6,05019
GNL3L	-0,82795	4,580921	-1,69872	0,14533	0,254268	-6,05041
GLTP	-0,46711	5,107265	-1,69753	0,14556	0,25464	-6,05196
PTGER4	0,251778	8,483845	1,696756	0,14571	0,25487	-6,05297
LCP2	-0,21729	8,819867	-1,69633	0,145793	0,254984	-6,05353
TNF	0,671349	5,608585	1,696127	0,145832	0,255021	-6,05379
TMEM11	0,33662	6,424108	1,695008	0,14605	0,25537	-6,05525
SDR42E1	1,262132	3,638522	1,694737	0,146102	0,255411	-6,05561
CHMP7	-0,28817	7,403989	-1,6947	0,146109	0,255411	-6,05565
ZNF143	0,440315	7,090479	1,693106	0,14642	0,255923	-6,05774
EZR	0,20689	8,876621	1,692485	0,146541	0,256103	-6,05855
TMEM154	-0,26763	7,070933	-1,69202	0,146633	0,256226	-6,05916
NDUFA13	-0,49291	5,620533	-1,69191	0,146654	0,256226	-6,0593
TP73-AS1	0,822566	4,999574	1,691845	0,146666	0,256226	-6,05938
ABL1	-0,35353	6,81579	-1,69122	0,146788	0,256403	-6,0602
L1CAM	1,602452	1,908535	1,69105	0,146822	0,256403	-6,06042
SPRED3	1,602452	1,908535	1,69105	0,146822	0,256403	-6,06042
CPSF3	0,216964	6,387198	1,690741	0,146882	0,256477	-6,06082
CNTNAP2	0,949332	3,689285	1,689651	0,147096	0,256818	-6,06225
RBM44	0,861654	2,5616	1,688908	0,147241	0,257021	-6,06322
PPFIA4	-1,76325	2,910779	-1,68887	0,147248	0,257021	-6,06326
URM1	0,335857	7,065355	1,688674	0,147287	0,257057	-6,06352
WDPCP	0,376881	4,555	1,688467	0,147328	0,257086	-6,06379
TCTN3	0,421551	5,595082	1,68823	0,147374	0,257086	-6,0641
SLC5A5	1,881285	1,273976	1,688218	0,147377	0,257086	-6,06412
VWCE	1,881285	1,273976	1,688218	0,147377	0,257086	-6,06412
RNPEPL1	-0,49729	5,750419	-1,6875	0,147518	0,257301	-6,06506
PLEKHA8P1	-0,92361	3,235781	-1,6868	0,147655	0,257508	-6,06596
MTM1	-0,32155	5,718402	-1,68629	0,147755	0,257622	-6,06663
MIR210HG	-2,47494	4,509266	-1,68628	0,147757	0,257622	-6,06664
NAA38	-0,29348	6,230323	-1,68616	0,147781	0,257633	-6,0668
NXT1	-0,30694	6,211792	-1,68564	0,147883	0,257779	-6,06748
NCR1	-2,4917	4,678919	-1,68543	0,147925	0,25782	-6,06775
ZNF394	0,523685	6,007062	1,685282	0,147954	0,257833	-6,06795

ANKDD1A	0,887138	3,881952	1,685207	0,147969	0,257833	-6,06804
PREB	0,257556	6,892849	1,685108	0,147988	0,257835	-6,06817
CCT6P1	-1,43093	1,48944	-1,68501	0,148007	0,257836	-6,0683
PCMTD2	0,254011	8,247399	1,683551	0,148296	0,25828	-6,0702
TAX1BP1	-0,21721	9,994994	-1,68349	0,148308	0,25828	-6,07029
TBC1D10C	0,430428	7,791455	1,683444	0,148317	0,25828	-6,07034
TRAF3IP2-A	0,731973	3,733749	1,683228	0,148359	0,258322	-6,07062
FAM153A	-0,60354	5,571642	-1,68312	0,148381	0,258328	-6,07076
C5orf51	0,261418	6,805283	1,682548	0,148494	0,258493	-6,07151
MTX2	-0,74289	5,985236	-1,68237	0,148529	0,258522	-6,07174
APPL2	0,426742	6,20125	1,681343	0,148732	0,258822	-6,07308
HPSE	-1,35202	3,278461	-1,68132	0,148738	0,258822	-6,07311
MCM3AP-A	-1,44064	2,355952	-1,6806	0,148879	0,258999	-6,07405
PLEKHF1	0,487658	5,671284	1,680578	0,148884	0,258999	-6,07407
TRMT6	0,291915	7,524635	1,680523	0,148895	0,258999	-6,07415
DYNC2LI1	0,581448	4,021488	1,680097	0,148979	0,259115	-6,0747
CD8B	0,838296	5,699096	1,679584	0,149081	0,25926	-6,07537
C22orf34	-1,29746	3,02516	-1,67869	0,14926	0,259538	-6,07654
APEH	-1,01813	5,648369	-1,67751	0,149493	0,259912	-6,07807
SCRN3	-2,33046	4,324482	-1,67711	0,149573	0,260018	-6,07859
CLSPN	0,422871	4,246956	1,676931	0,149609	0,260042	-6,07882
TMEM184C	-0,59943	6,016239	-1,67683	0,149628	0,260042	-6,07895
NSUN4	-0,37756	5,430286	-1,67677	0,149642	0,260042	-6,07904
HDAC6	-0,41808	6,232143	-1,6762	0,149755	0,260207	-6,07978
ICAM2	-0,50996	6,077442	-1,67574	0,149846	0,260334	-6,08037
PFKFB2	-1,2337	3,854932	-1,6748	0,150035	0,260629	-6,0816
CXorf57	0,69704	5,152092	1,674365	0,150121	0,260734	-6,08216
BBS2	-0,5337	6,026984	-1,67424	0,150145	0,260734	-6,08232
AMDHD2	-0,77397	5,797841	-1,67422	0,15015	0,260734	-6,08236
OTUD7A	0,894506	4,928234	1,674006	0,150193	0,260776	-6,08263
SLFN12L	0,335607	7,688938	1,673598	0,150274	0,260885	-6,08316
SLC25A26	0,362287	6,184737	1,673494	0,150295	0,26089	-6,0833
ALX4	1,23348	2,006715	1,672942	0,150406	0,261049	-6,08402
GMPS	0,412999	6,581676	1,672657	0,150463	0,261116	-6,08439
JAGN1	0,3818	6,740102	1,672288	0,150537	0,261206	-6,08487
MED7	0,452583	5,873445	1,672158	0,150563	0,261206	-6,08504
ADIPOR2	-0,30074	7,386415	-1,67212	0,15057	0,261206	-6,08508
LRRIQ3	1,058124	2,919037	1,671935	0,150608	0,261235	-6,08533
ARHGAP27	-0,33098	6,348639	-1,67185	0,150624	0,261235	-6,08543
ZNHIT3	0,304927	7,157817	1,67156	0,150683	0,261306	-6,08581
SNRNP70	0,23428	8,0197	1,671333	0,150728	0,261352	-6,08611
RPL13AP6	1,376428	2,216535	1,669373	0,151122	0,262003	-6,08866
LRR7	1,624823	1,674066	1,668869	0,151224	0,262147	-6,08931
DNAJA4	-0,56637	5,814667	-1,66696	0,151608	0,26275	-6,09179
LYSMD2	-0,25003	8,339576	-1,66694	0,151613	0,26275	-6,09182
SUPT3H	0,355124	4,920501	1,666867	0,151627	0,26275	-6,09191
ZNF276	0,308052	6,169702	1,665498	0,151904	0,263197	-6,09369
BRAT1	-2,18115	4,055515	-1,66514	0,151977	0,263292	-6,09416
ZNF544	0,591349	4,031752	1,664803	0,152045	0,263376	-6,0946
CPNE2	0,671199	4,766373	1,664465	0,152113	0,263463	-6,09503
PHF5A	0,400147	6,930141	1,664111	0,152185	0,263535	-6,09549
MEPCE	-0,49347	6,394035	-1,66398	0,15221	0,263535	-6,09566

HOXA9	-1,54795	1,773976	-1,66392	0,152224	0,263535	-6,09575
RAI1	0,235606	7,517465	1,66389	0,15223	0,263535	-6,09578
SFR1	-1,06695	3,978606	-1,66324	0,15236	0,263729	-6,09662
CDK5RAP1	0,338216	5,961195	1,663136	0,152383	0,263735	-6,09676
ECE1	0,408417	6,066801	1,66253	0,152505	0,263916	-6,09755
LTBP4	-1,66441	2,939513	-1,66158	0,152698	0,264216	-6,09878
PPDPF	0,274249	7,728892	1,661311	0,152753	0,26428	-6,09913
GSPT2	0,370223	5,280535	1,661047	0,152807	0,26434	-6,09947
PPP1R21	-0,27573	6,234962	-1,66029	0,152962	0,264549	-6,10046
MIB1	-0,33238	8,473184	-1,66027	0,152965	0,264549	-6,10048
CNDP1	1,214619	0,940643	1,658864	0,153252	0,264922	-6,1023
KCNJ3	1,214619	0,940643	1,658864	0,153252	0,264922	-6,1023
OR10K1	1,214619	0,940643	1,658864	0,153252	0,264922	-6,1023
TIMM44	0,358702	5,838235	1,658836	0,153257	0,264922	-6,10234
SSH2	0,247355	7,864254	1,658752	0,153274	0,264922	-6,10245
TMEM126A	-1,85029	5,484385	-1,65818	0,153392	0,265069	-6,1032
KLHDC3	0,360669	6,115247	1,658152	0,153397	0,265069	-6,10323
CENPV	-1,05664	1,968964	-1,65513	0,154015	0,266064	-6,10715
RECQL5	1,098411	3,908144	1,655069	0,154028	0,266064	-6,10723
LMNB2	-0,60348	5,647132	-1,65506	0,154029	0,266064	-6,10724
ZNF92	0,295348	6,27853	1,654947	0,154053	0,266072	-6,10738
KANSL1	0,230524	8,996413	1,654707	0,154102	0,266125	-6,1077
NF2	-0,33481	5,843163	-1,65409	0,154229	0,266312	-6,1085
TRMT61B	0,425114	5,076222	1,653793	0,15429	0,266384	-6,10888
TPRKB	0,296111	6,974013	1,653184	0,154415	0,266567	-6,10967
GNE	-0,53613	5,238277	-1,65303	0,154447	0,26659	-6,10987
ASH1L	0,335232	9,21044	1,652627	0,154529	0,2667	-6,11039
C8orf58	-1,42101	2,151148	-1,65218	0,154621	0,266825	-6,11097
KDM6B	-0,3539	6,251301	-1,65168	0,154723	0,266969	-6,11161
MICAL2	0,35524	5,2352	1,651032	0,154857	0,267168	-6,11246
PINK1	-0,47288	6,193864	-1,65076	0,154914	0,267233	-6,11281
ZCCHC17	0,319927	7,06113	1,650274	0,155014	0,267373	-6,11344
ZNF799	-1,68079	3,181185	-1,64939	0,155196	0,267654	-6,11458
MSH3	0,355718	6,510561	1,648637	0,155352	0,267864	-6,11556
RBM22	-0,22918	8,635122	-1,64862	0,155355	0,267864	-6,11558
XPA	-0,42304	7,052075	-1,64786	0,155513	0,268103	-6,11657
ZNF524	-1,97701	3,744103	-1,64761	0,155565	0,268159	-6,11689
ZNF865	-1,22587	4,151172	-1,64675	0,155743	0,268418	-6,11801
FARSA	-2,16601	4,126098	-1,6467	0,155753	0,268418	-6,11806
PPM1K	0,318141	7,894151	1,646592	0,155775	0,268424	-6,11821
PPIL2	-0,22653	6,761436	-1,64589	0,155921	0,268642	-6,11912
MBOAT1	-1,05664	1,63563	-1,64545	0,156011	0,268766	-6,11968
PRCC	0,351997	5,950596	1,645307	0,156042	0,268785	-6,11987
TBC1D19	0,433187	3,952671	1,644853	0,156136	0,268915	-6,12046
C11orf54	0,230243	7,471287	1,642893	0,156544	0,269558	-6,12299
TCF25	-0,34101	9,1754	-1,64287	0,156548	0,269558	-6,12302
TEC	-1,14432	2,012803	-1,64193	0,156744	0,269863	-6,12423
PKP4	0,419764	5,590797	1,641484	0,156837	0,269991	-6,12481
UBXN4	0,20728	9,526908	1,641379	0,156859	0,269996	-6,12495
ANKRD10	0,243109	8,1475	1,640602	0,157022	0,270242	-6,12595
PSMD13	0,227274	7,95511	1,639501	0,157252	0,270606	-6,12738
SHOX	1,344998	2,274951	1,63884	0,15739	0,270811	-6,12823

ARL2	-0,96934	4,927934	-1,63848	0,157465	0,270904	-6,12869
MAF1	0,426783	5,968987	1,638331	0,157497	0,270904	-6,12889
THOC1	0,211016	7,291214	1,638306	0,157502	0,270904	-6,12892
KIF27	0,653773	3,954943	1,637683	0,157633	0,271096	-6,12972
TSPYL5	-1,16181	1,883201	-1,63755	0,15766	0,27111	-6,12989
LY9	0,408958	6,545516	1,636704	0,157838	0,271383	-6,13099
SNX13	0,228492	7,511292	1,636248	0,157934	0,271515	-6,13158
TP63	1,050668	2,689285	1,63615	0,157954	0,271517	-6,1317
QDPR	-0,42765	6,071115	-1,63581	0,158026	0,271599	-6,13215
ATXN1L	0,270666	6,648083	1,635741	0,15804	0,271599	-6,13223
ANKRD20A	0,717334	2,415309	1,634839	0,15823	0,271863	-6,1334
TJAP1	0,410981	5,407963	1,634829	0,158232	0,271863	-6,13341
RNF26	-1,22496	4,179292	-1,63428	0,158348	0,272014	-6,13412
UBE2W	-0,21591	7,310329	-1,63423	0,158359	0,272014	-6,13419
TAGLN2	-0,48804	9,23507	-1,63348	0,158516	0,272251	-6,13515
11-set	-0,37827	6,736927	-1,63318	0,158579	0,272327	-6,13554
WDR7	-0,3884	6,55473	-1,63261	0,158699	0,272499	-6,13627
ZNF721	0,238723	7,159819	1,632485	0,158726	0,272513	-6,13644
MEST	1,333333	1	1,632039	0,158821	0,272542	-6,13701
TRPC3	1,333333	1	1,632039	0,158821	0,272542	-6,13701
LIM2	1,333333	1	1,632039	0,158821	0,272542	-6,13701
TPTEP1	1,333333	1	1,632039	0,158821	0,272542	-6,13701
ALG14	0,843454	4,645648	1,631495	0,158936	0,272706	-6,13771
CHCHD10	-0,2557	6,594379	-1,63138	0,158959	0,272713	-6,13786
RNF40	-0,3023	6,259396	-1,63109	0,159021	0,272787	-6,13824
CDH23	-1,3568	1,452374	-1,63058	0,159129	0,272872	-6,13889
FBXO2	-1,3568	1,452374	-1,63058	0,159129	0,272872	-6,13889
NR1D1	-1,3568	1,452374	-1,63058	0,159129	0,272872	-6,13889
AFTPH	0,200599	8,752135	1,630408	0,159165	0,272902	-6,13912
SOCS5	-0,26136	6,162012	-1,63016	0,159218	0,272906	-6,13943
MBD3L1	1,440643	1,053655	1,630124	0,159226	0,272906	-6,13948
PDE1B	1,440643	1,053655	1,630124	0,159226	0,272906	-6,13948
CHAF1A	0,334673	6,176783	1,628514	0,159567	0,273048	-6,14156
A1CF	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
ANKRD18B	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
FBXO16	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
GAP43	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
HCG9	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
MAFA	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
OR5T1	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
OR8J1	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
TMPRSS9	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
WDR49	1,602452	0,801226	1,628232	0,159627	0,273048	-6,14192
ELAC2	-0,4215	5,931446	-1,62823	0,159628	0,273048	-6,14193
ADCY10	1,269118	0,967892	1,628191	0,159635	0,273048	-6,14197
ADH1B	1,269118	0,967892	1,628191	0,159635	0,273048	-6,14197
ELFN1	1,269118	0,967892	1,628191	0,159635	0,273048	-6,14197
SUSD4	1,269118	0,967892	1,628191	0,159635	0,273048	-6,14197
RETSAT	-0,66905	6,406817	-1,62818	0,159637	0,273048	-6,14198
SLC10A3	-2,01567	3,663097	-1,628	0,159676	0,273082	-6,14222
CHD3	0,274685	8,923064	1,627836	0,159711	0,273108	-6,14243
PJA2	-0,2035	9,500966	-1,62728	0,159828	0,273276	-6,14314

C19orf54	-1,33333	2,056642	-1,627	0,159889	0,273347	-6,14351
KLHL14	-1,2592	2,339362	-1,62676	0,15994	0,273401	-6,14382
FAM217B	-0,23767	7,749077	-1,62561	0,160184	0,273786	-6,1453
RPA1	0,303407	7,362929	1,625289	0,160253	0,273869	-6,14571
PTRHD1	0,320897	5,964095	1,624904	0,160335	0,273957	-6,14621
ASAH2B	-1,7454	2,10618	-1,62487	0,160343	0,273957	-6,14626
ZNF468	-0,31663	5,725595	-1,62365	0,160603	0,274369	-6,14783
ZNF154	-1,62915	3,083691	-1,62168	0,161023	0,275025	-6,15036
HDGF	-0,23812	8,977123	-1,62167	0,161026	0,275025	-6,15038
LYSMD3	0,232184	7,140663	1,621525	0,161057	0,275044	-6,15056
DNAJC18	0,662467	4,248694	1,620918	0,161187	0,275203	-6,15134
CAD	0,670495	4,92021	1,620908	0,161189	0,275203	-6,15136
GLUD1	-0,69825	6,851992	-1,62034	0,161312	0,275379	-6,15209
ISY1	-0,27009	6,484247	-1,61957	0,161477	0,275628	-6,15308
KRT26	1,881285	1,607309	1,619318	0,16153	0,275686	-6,1534
CSNK2B	0,303534	8,332059	1,618571	0,161691	0,275926	-6,15437
PIK3CB	-0,30028	6,645982	-1,61798	0,161817	0,276108	-6,15512
MTMR11	-1,19499	0,930827	-1,61725	0,161975	0,276344	-6,15606
ABC8	-1,49268	2,789436	-1,61653	0,16213	0,276576	-6,15699
CCDC144B	-1,08681	3,825233	-1,61598	0,162249	0,276727	-6,1577
CKAP4	0,352917	7,699896	1,615937	0,162258	0,276727	-6,15775
RPLP0P2	1,278834	1,908535	1,615568	0,162337	0,276829	-6,15823
ZNF600	0,372065	6,340722	1,614931	0,162475	0,27703	-6,15905
ZSCAN2	-1,895	3,288288	-1,61303	0,162886	0,277687	-6,16149
MANBAL	-1,88797	3,491938	-1,61297	0,162899	0,277687	-6,16157
ENC1	0,619372	5,496265	1,612398	0,163023	0,277805	-6,1623
TUBA4A	0,474326	8,127109	1,612393	0,163024	0,277805	-6,16231
RIMS1	1,547952	1,968964	1,612377	0,163027	0,277805	-6,16233
MAPRE2	0,260584	7,676819	1,611897	0,163132	0,277949	-6,16295
DDAH2	-0,28172	6,694577	-1,61178	0,163158	0,27796	-6,1631
LSM2	-1,32673	5,702797	-1,61137	0,163245	0,278076	-6,16362
CGN	1,63563	2,365767	1,610922	0,163343	0,278209	-6,1642
ZNF829	0,601042	5,285723	1,61025	0,163489	0,278424	-6,16506
DYRK2	0,199631	9,605222	1,60944	0,163665	0,27869	-6,1661
RASA3	0,28089	8,536667	1,609135	0,163731	0,278769	-6,16649
TMEM205	-1,56453	5,03222	-1,60871	0,163824	0,278893	-6,16704
DHX32	-0,95244	4,005794	-1,60849	0,163871	0,278926	-6,16732
RNF213	-0,30521	10,22385	-1,60844	0,163883	0,278926	-6,16739
IL2RB	-0,27199	8,064848	-1,60813	0,16395	0,278983	-6,16778
CASP4	-0,25725	8,169076	-1,60811	0,163955	0,278983	-6,16781
PWRN2	1,389975	1,468964	1,60783	0,164016	0,279052	-6,16817
CUL2	0,304738	7,163831	1,606996	0,164198	0,279295	-6,16924
SLC41A1	-0,49487	5,445281	-1,60693	0,164211	0,279295	-6,16932
SLCO4C1	-0,83336	3,900416	-1,6069	0,164218	0,279295	-6,16936
EHF	1,302297	2,041123	1,606557	0,164293	0,27939	-6,1698
TMEM187	-1,03295	3,857263	-1,6062	0,164371	0,279479	-6,17026
PDS5A	0,240197	9,042994	1,606134	0,164386	0,279479	-6,17035
GIMAP4	0,218087	9,533469	1,605561	0,164511	0,279659	-6,17108
KBTBD4	0,643403	5,760904	1,6054	0,164546	0,279685	-6,17129
USP25	0,267273	7,972876	1,605044	0,164624	0,279758	-6,17174
USP13	0,518585	5,030395	1,605021	0,164629	0,279758	-6,17177
C1R	-1,21845	1,383201	-1,6048	0,164677	0,279807	-6,17206

CCDC77	-0,65066	4,733732	-1,6043	0,164786	0,279958	-6,17269
AKAP1	-0,49459	5,682524	-1,60358	0,164944	0,280193	-6,17362
MTRF1	0,256359	6,417728	1,60338	0,164988	0,280234	-6,17388
GAN	0,291032	6,276034	1,60329	0,165008	0,280234	-6,17399
NLGN1	1,352965	3,140588	1,60315	0,165039	0,280238	-6,17417
FIGNL1	-0,89686	5,511395	-1,6031	0,16505	0,280238	-6,17424
TPI1	-0,58792	8,292084	-1,6027	0,165138	0,280353	-6,17475
IFT20	0,257146	6,520013	1,602183	0,165251	0,280512	-6,17541
KIFAP3	0,516332	5,702114	1,601294	0,165446	0,280766	-6,17655
IRF7	-2,20277	4,260635	-1,60126	0,165454	0,280766	-6,1766
C3orf38	0,259703	6,903261	1,601111	0,165487	0,280766	-6,17679
FBXO21	0,218053	7,638906	1,601105	0,165488	0,280766	-6,17679
STK4	0,200032	10,62242	1,60103	0,165504	0,280766	-6,17689
DENND1A	-0,56929	5,512457	-1,60096	0,16552	0,280766	-6,17698
ANGEL1	-0,69013	4,22635	-1,60058	0,165602	0,280872	-6,17746
ST3GAL2	-0,41592	5,876896	-1,60008	0,165714	0,281027	-6,17811
CUL9	0,576813	5,647345	1,599128	0,165923	0,281349	-6,17933
ZNF534	0,842158	3,738174	1,598188	0,16613	0,281666	-6,18053
FAM174B	1,194988	2,233124	1,597888	0,166197	0,281745	-6,18092
C4orf47	0,999164	3,222891	1,597507	0,166281	0,281854	-6,1814
TPD52L1	1,362488	1,876231	1,597165	0,166356	0,281948	-6,18184
KRT86	-1,64781	3,114024	-1,59593	0,16663	0,282375	-6,18343
TLE1	-0,42016	4,976481	-1,59585	0,166648	0,282375	-6,18353
WNT2B	1,262199	3,374039	1,595101	0,166813	0,282621	-6,18449
LRRC42	-2,28623	4,40357	-1,59495	0,166846	0,282643	-6,18468
PARVA	1,389975	1,802297	1,594645	0,166914	0,282702	-6,18507
COL24A1	0,259203	2,862825	1,594614	0,166921	0,282702	-6,18511
RTKN2	0,282369	6,05143	1,593616	0,167142	0,282896	-6,18639
GOLGA1	0,221536	7,260017	1,593399	0,167191	0,282896	-6,18666
RAP2C	-0,22337	7,136074	-1,5929	0,167302	0,282896	-6,18731
RASGRP3	0,334903	5,629518	1,592658	0,167355	0,282896	-6,18761
ZNF410	0,992427	2,024534	1,59259	0,16737	0,282896	-6,1877
CACNB2	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
CGNL1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
GLYATL1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
ITGA2B	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
KCNK9	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
LONRF3	-1,10731	0,886988	-1,59238	0,167416	0,282896	-6,18796
LTBP1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
MIR4314	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
NANOS1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
OLFM3	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
OR52I1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
PCDHB1	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
SLITRK6	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
TRIM64C	1,107309	0,886988	1,592384	0,167416	0,282896	-6,18796
LLPH	0,332057	7,273733	1,592149	0,167468	0,282951	-6,18826
TAB2	0,212483	9,096804	1,591979	0,167506	0,282981	-6,18848
STAMBPL1	0,59891	6,008706	1,591121	0,167697	0,28327	-6,18958
PPFIBP1	0,575126	3,966287	1,590924	0,167741	0,28331	-6,18983
PDXDC1	0,280613	8,217669	1,590482	0,16784	0,283442	-6,19039
TOP2A	0,575657	5,144447	1,587468	0,168513	0,284545	-6,19425

NDUFV2	0,402486	7,023248	1,58714	0,168586	0,284635	-6,19467
APEX2	-1,85045	3,61032	-1,58693	0,168632	0,284679	-6,19493
HDAC3	-0,27932	7,231583	-1,58682	0,168658	0,284683	-6,19508
MYO1C	-0,9443	3,579458	-1,58674	0,168675	0,284683	-6,19517
TAS2R14	0,639179	3,717021	1,586515	0,168726	0,284735	-6,19547
INSL6	1,740797	1,39872	1,585739	0,1689	0,284976	-6,19646
NPRL3	-0,61112	3,955987	-1,5857	0,168909	0,284976	-6,19651
PRRC2C	0,23606	11,14883	1,585388	0,168979	0,28506	-6,19691
CSNK1A1L	1,565441	2,701016	1,585067	0,169051	0,285116	-6,19731
DCAF4	0,627558	4,173551	1,58506	0,169052	0,285116	-6,19732
ZNF396	-1,33333	1,440643	-1,58477	0,169118	0,285192	-6,1977
MGRN1	-0,4023	6,545269	-1,58435	0,169211	0,285315	-6,19823
CCDC86	-0,7618	3,423995	-1,58424	0,169236	0,285323	-6,19837
MCM3	0,428161	7,036624	1,583663	0,169366	0,285509	-6,19911
GSTCD	0,378801	4,473317	1,582892	0,169539	0,285767	-6,20009
EXOSC5	-1,45193	3,833275	-1,58199	0,169742	0,286074	-6,20124
IGF2BP3	-0,66804	3,484423	-1,58188	0,169767	0,286082	-6,20138
NDUFS1	-0,2162	7,948164	-1,58171	0,169807	0,286115	-6,20161
MRPS12	0,310952	5,384291	1,581169	0,169928	0,286285	-6,20229
IRF3	0,346419	6,983079	1,580903	0,169988	0,286352	-6,20263
GTF2A2	-0,37264	6,958857	-1,58061	0,170055	0,286431	-6,20301
NKAIN3	1,85153	2,259098	1,580475	0,170085	0,286446	-6,20318
USP15	0,297008	9,489442	1,580192	0,170148	0,28652	-6,20354
SLC6A16	-1,06598	3,090465	-1,57866	0,170495	0,287069	-6,20549
RPAP1	0,399208	5,574102	1,577989	0,170647	0,28729	-6,20635
GPI	-0,39223	8,2689	-1,57698	0,170875	0,287615	-6,20763
STXBP4	-1,81981	3,417759	-1,57696	0,17088	0,287615	-6,20766
CAMSAP1	-0,28231	6,279813	-1,57621	0,17105	0,287819	-6,20861
SLC39A1	-0,39316	6,39996	-1,57616	0,171061	0,287819	-6,20868
ZDHHC3	-0,26041	6,818944	-1,57615	0,171063	0,287819	-6,20869
CCR10	1,773976	0,886988	1,575338	0,171248	0,288063	-6,20973
UNC13A	1,773976	0,886988	1,575338	0,171248	0,288063	-6,20973
ITGB1BP1	0,338729	6,480717	1,57481	0,171368	0,28823	-6,2104
SCN3B	1,319786	1,716535	1,574604	0,171415	0,288242	-6,21066
APBB3	0,334683	5,40687	1,574601	0,171416	0,288242	-6,21066
PDE12	0,251208	6,757651	1,574235	0,171499	0,288341	-6,21113
CDKL1	-1,40884	2,25237	-1,57416	0,171515	0,288341	-6,21122
PCDHGA10	1,63563	1,346136	1,573163	0,171743	0,288655	-6,2125
RAPGEF3	1,63563	1,346136	1,573163	0,171743	0,288655	-6,2125
C1orf123	-0,31915	5,866635	-1,57305	0,171769	0,288665	-6,21264
SBNO1	0,223225	9,201953	1,570967	0,172244	0,28941	-6,21529
RABGEF1	0,50944	5,76367	1,570925	0,172254	0,28941	-6,21535
GART	0,30029	6,663166	1,570694	0,172307	0,289465	-6,21564
ITSN2	0,229189	9,588824	1,570294	0,172398	0,289543	-6,21615
ARNT	-0,2645	6,609505	-1,57027	0,172404	0,289543	-6,21618
C9orf78	0,298007	8,678562	1,570172	0,172426	0,289543	-6,2163
CNPY3	-0,35105	5,410212	-1,57013	0,172435	0,289543	-6,21636
RLIM	0,245158	7,876565	1,568941	0,172708	0,289966	-6,21787
RBM33	0,23641	8,915096	1,568589	0,172788	0,290067	-6,21832
SYVN1	-0,60656	6,461243	-1,56847	0,172816	0,290079	-6,21847
RAB11FIP3	0,870293	4,621287	1,568259	0,172864	0,290125	-6,21874
LMBRD1	-0,21069	8,582363	-1,568	0,172924	0,290158	-6,21907

RBFOX2	1,343249	2,0616	1,567996	0,172925	0,290158	-6,21907
ERI1	-0,69027	5,582501	-1,56776	0,172979	0,290214	-6,21937
TIMM13	0,22862	6,90912	1,567059	0,17314	0,29045	-6,22026
ARF1	-0,20295	10,07673	-1,56685	0,173187	0,290495	-6,22053
PHB	-0,37802	5,933953	-1,56635	0,173303	0,290654	-6,22117
MS4A12	1,955416	1,506029	1,566036	0,173375	0,290741	-6,22157
PHLDB1	1,157977	1,968964	1,56593	0,173399	0,290747	-6,2217
NUBP2	0,327477	6,049586	1,565718	0,173448	0,290794	-6,22197
STOML2	0,200691	7,017907	1,565155	0,173577	0,290977	-6,22269
ACOT2	-0,56993	3,889557	-1,56488	0,17364	0,291047	-6,22303
HLA-F	-0,42669	9,60003	-1,56452	0,173724	0,29113	-6,22349
B3GALT4	0,348505	5,115773	1,564489	0,173731	0,29113	-6,22353
PCBD2	-0,69748	4,370322	-1,56334	0,173996	0,291486	-6,22499
PSMA3	-0,20705	8,742991	-1,56327	0,174012	0,291486	-6,22508
DHX58	-0,43631	4,766107	-1,56316	0,174038	0,291486	-6,22522
ZNHIT1	-0,90856	5,551839	-1,56297	0,174081	0,291486	-6,22546
TMLHE	-1,14432	1,346136	-1,56285	0,174108	0,291486	-6,22561
ZNF18	-1,14432	1,346136	-1,56285	0,174108	0,291486	-6,22561
MFSD3	-1,14432	1,346136	-1,56285	0,174108	0,291486	-6,22561
PMS2P1	-1,14432	1,346136	-1,56285	0,174108	0,291486	-6,22561
GPR65	-0,29486	8,746933	-1,56271	0,174142	0,291508	-6,2258
KCNMB1	0,621582	4,523528	1,562291	0,174238	0,291635	-6,22632
KLHL15	0,558129	5,602268	1,560284	0,174702	0,292377	-6,22887
LPXN	0,201275	8,595307	1,559832	0,174807	0,292518	-6,22945
BRD9	0,274646	6,959323	1,559624	0,174856	0,292564	-6,22971
SORBS3	-1,76085	3,476393	-1,55945	0,174895	0,292596	-6,22993
LUC7L3	0,282701	11,09557	1,559127	0,174971	0,292688	-6,23034
GSTK1	-0,25888	7,542697	-1,55896	0,175009	0,292716	-6,23055
AK4	-2,41996	4,349267	-1,55867	0,175077	0,292796	-6,23092
TMEM214	-0,35371	5,911855	-1,55683	0,175505	0,293466	-6,23326
MEA1	-0,38573	5,557234	-1,55677	0,175519	0,293466	-6,23333
MIER3	0,521821	5,757986	1,556407	0,175603	0,293572	-6,23379
PDK1	0,303131	8,298827	1,556078	0,17568	0,293665	-6,23421
IRGQ	-2,17923	4,213902	-1,55548	0,175818	0,293862	-6,23497
ZNF292	0,210142	9,969085	1,555127	0,175901	0,293966	-6,23542
TMEM181	-0,32446	7,53742	-1,55452	0,176043	0,294169	-6,23619
PELI2	-0,4846	5,847524	-1,55418	0,176121	0,294264	-6,23661
NET1	0,332765	5,326751	1,554014	0,176161	0,294295	-6,23683
GALE	-1,58004	2,959287	-1,55351	0,176279	0,294458	-6,23747
GIN53	-1,14134	3,596276	-1,55303	0,176391	0,29461	-6,23807
TRIP4	-0,28585	6,850806	-1,55186	0,176665	0,295033	-6,23956
RAB11FIP1	-0,2417	8,65812	-1,55166	0,176711	0,295075	-6,23981
C21orf91	0,243096	8,349768	1,550364	0,177015	0,295533	-6,24145
ASNA1	-1,5661	4,001263	-1,55031	0,177027	0,295533	-6,24152
FADD	0,503503	5,797595	1,550181	0,177058	0,29555	-6,24168
ZNF79	-0,96896	1,591791	-1,54981	0,177146	0,295661	-6,24216
TRIB3	-1,53429	2,981766	-1,54904	0,177327	0,295928	-6,24313
RTN4R	-1,08218	4,134878	-1,54887	0,177366	0,295938	-6,24335
NSMCE4A	0,229735	7,084332	1,548836	0,177374	0,295938	-6,24339
NEK4	0,379786	6,357548	1,548643	0,17742	0,295945	-6,24363
SEC63	0,194351	8,700513	1,548558	0,17744	0,295945	-6,24374
BIVM	0,456444	5,708317	1,54855	0,177441	0,295945	-6,24375

USP32P1	-1,67795	3,053596	-1,54797	0,177578	0,296138	-6,24448
CTU1	-1,05664	2,302297	-1,54772	0,177637	0,29617	-6,2448
SRGAP3	1,449308	3,651774	1,54771	0,177639	0,29617	-6,24481
PHKG1	1,676582	1,366612	1,547574	0,177671	0,296188	-6,24499
POMT2	-1,96525	3,782918	-1,54719	0,17776	0,296302	-6,24546
RALA	0,211796	8,525339	1,547021	0,177801	0,296314	-6,24568
KIFC3	-0,94	3,999574	-1,54699	0,177809	0,296314	-6,24573
ORC1	1,171524	1,854881	1,546283	0,177975	0,296533	-6,24662
NPR2	0,989298	4,257027	1,546189	0,177998	0,296533	-6,24674
WDR87	1,702066	1,907675	1,546163	0,178004	0,296533	-6,24677
CCDC12	0,218085	7,069985	1,546066	0,178027	0,296536	-6,24689
POGLUT1	0,259935	7,299067	1,545688	0,178116	0,29665	-6,24737
INPP5K	0,34486	6,114348	1,545266	0,178216	0,296749	-6,24791
GOLGA6L9	-1,35219	2,557383	-1,54526	0,178218	0,296749	-6,24792
MBD1	0,31335	7,174024	1,543158	0,178714	0,297541	-6,25057
LRR1	0,251167	7,102003	1,543042	0,178741	0,297551	-6,25072
ALOX5AP	-0,2255	7,512003	-1,54193	0,179004	0,297953	-6,25212
HCLS1	0,211579	9,504091	1,541809	0,179034	0,297968	-6,25228
WDR45	0,332996	5,3555	1,540935	0,179241	0,298241	-6,25338
MAP3K6	-1,02346	1,619041	-1,54085	0,179261	0,298241	-6,25349
MSX1	1,023463	1,619041	1,540851	0,179261	0,298241	-6,25349
PDZD2	-1,07413	1,065386	-1,54063	0,179314	0,298295	-6,25377
POLD3	-0,31955	6,537741	-1,5402	0,179415	0,298427	-6,25431
TASP1	-0,36093	4,924655	-1,5396	0,179558	0,29861	-6,25507
ENDOG	-2,19873	4,08796	-1,53956	0,179568	0,29861	-6,25512
IMP4	0,313006	6,252888	1,538968	0,179709	0,29881	-6,25587
KLHL5	-0,23707	6,986805	-1,53806	0,179925	0,299135	-6,25702
TMEM198E	0,681696	3,602393	1,53649	0,1803	0,299722	-6,25899
ZNF22	0,237167	7,91299	1,536002	0,180416	0,299844	-6,25961
GBP7	0,594757	5,029989	1,535917	0,180436	0,299844	-6,25972
PNPLA6	-1,74868	3,42229	-1,53591	0,180437	0,299844	-6,25972
URB2	0,444619	5,785742	1,535157	0,180618	0,300099	-6,26068
IBTK	-0,30356	8,743332	-1,53508	0,180637	0,300099	-6,26078
CDH11	-1	1,028321	-1,53483	0,180697	0,300099	-6,26109
HNF4G	-1	1,028321	-1,53483	0,180697	0,300099	-6,26109
PKIB	-1	1,028321	-1,53483	0,180697	0,300099	-6,26109
ATP8B4	-1,01499	4,715606	-1,53466	0,180738	0,300133	-6,26131
PSMB4	0,223698	8,595946	1,534339	0,180814	0,300224	-6,26171
TMEM140	-1,02237	5,158874	-1,53422	0,180844	0,300238	-6,26186
HUWE1	0,25986	8,04701	1,534081	0,180876	0,300256	-6,26203
CD109	0,796649	5,006246	1,533703	0,180966	0,300371	-6,26251
CCL28	-0,34623	4,283419	-1,53315	0,181098	0,300554	-6,2632
VPS26B	-0,4261	6,341154	-1,53288	0,181162	0,300626	-6,26354
FBXO33	0,281676	6,870459	1,532775	0,181189	0,300634	-6,26368
DPM3	0,403737	6,003011	1,532295	0,181304	0,300763	-6,26429
ODF2L	-0,2729	8,027578	-1,53227	0,181309	0,300763	-6,26431
ATM	0,242732	10,39113	1,531965	0,181383	0,300851	-6,2647
TAS2R30	-1,41598	2,643773	-1,53159	0,181474	0,300967	-6,26518
SMYD3	0,340815	5,615352	1,531487	0,181498	0,300971	-6,26531
ISG20	-0,41257	7,196532	-1,53027	0,181792	0,301411	-6,26684
CYP27C1	1,497284	1,415309	1,530118	0,181827	0,301411	-6,26703
TM4SF18	1,497284	1,415309	1,530118	0,181827	0,301411	-6,26703

TOP1MT	-0,8585	4,748526	-1,52972	0,181923	0,301489	-6,26753
C5	1,153375	3,430768	1,529676	0,181934	0,301489	-6,26759
ZNF562	0,355005	5,966533	1,529649	0,18194	0,301489	-6,26762
ZNF713	1,282666	1,748642	1,529568	0,18196	0,301489	-6,26772
INPP5E	0,406916	5,39341	1,529383	0,182004	0,301527	-6,26796
VEZT	0,201328	7,094891	1,529069	0,18208	0,301617	-6,26835
NUPL2	0,395129	5,821597	1,528737	0,18216	0,301714	-6,26877
DCAF13	-0,30385	6,5431	-1,52776	0,182397	0,302071	-6,27
NCOR1	0,226109	9,860853	1,526837	0,182619	0,302404	-6,27116
TBC1D8	-0,44822	3,216535	-1,5266	0,182676	0,302463	-6,27146
CNR2	-0,4408	4,39996	-1,52606	0,182807	0,302645	-6,27214
PIK3R4	0,281221	7,084862	1,525298	0,182991	0,302914	-6,2731
SLC38A10	-0,88834	6,068878	-1,52516	0,183024	0,302919	-6,27327
LLGL2	-1,01878	5,205651	-1,52511	0,183037	0,302919	-6,27334
MLF1	1,056642	1,389975	1,524537	0,183176	0,303113	-6,27406
SPDYE1	1,984732	0,992366	1,524335	0,183225	0,303158	-6,27431
ARHGAP12	0,242013	7,144617	1,523963	0,183315	0,303272	-6,27478
RBMX2	0,2769	7,16108	1,522411	0,183692	0,30386	-6,27673
ANAPC7	-0,31076	5,929087	-1,52143	0,183931	0,30422	-6,27797
IRS1	0,755827	4,093648	1,52131	0,18396	0,304232	-6,27812
CHMP1A	-0,32765	5,647263	-1,52075	0,184096	0,304422	-6,27882
C5orf56	0,300967	9,142496	1,520233	0,184222	0,304595	-6,27947
LSM11	-0,52212	3,991822	-1,51982	0,184322	0,304725	-6,27999
SUDS3	0,24271	7,817049	1,519641	0,184366	0,304762	-6,28021
ATAD3C	1,793607	1,758458	1,519541	0,184391	0,304766	-6,28034
TMEM81	-1,28267	2,276963	-1,5194	0,184425	0,304788	-6,28052
TAOK1	-0,23329	9,422709	-1,5193	0,184451	0,304794	-6,28065
IGBP1P1	-1,60459	3,071415	-1,51784	0,184806	0,305346	-6,28248
FAM104B	-0,42847	4,923995	-1,51737	0,184922	0,305502	-6,28307
UCP3	-0,60519	2,517215	-1,51694	0,185027	0,305636	-6,28361
SCP2	-0,24197	8,492228	-1,51686	0,185046	0,305636	-6,28371
IL6ST	-0,29139	8,814335	-1,5164	0,185159	0,305774	-6,28429
MRPL40	-0,45965	5,40123	-1,51626	0,185192	0,305774	-6,28446
COCH	-0,91232	0,984482	-1,51616	0,185216	0,305774	-6,28458
PLEKHH2	-0,91232	0,984482	-1,51616	0,185216	0,305774	-6,28458
LDHA	-0,42027	9,219752	-1,51567	0,185338	0,305939	-6,2852
HEPHL1	1,709761	1,521547	1,514904	0,185525	0,306177	-6,28616
SLC38A5	-0,63563	2,920267	-1,5149	0,185526	0,306177	-6,28616
SERPINE1	0,935785	1,66288	1,514431	0,185642	0,306332	-6,28676
PYHIN1	-0,26738	7,884197	-1,5139	0,185772	0,306513	-6,28743
TBC1D1	-0,36629	6,960862	-1,51343	0,185888	0,306668	-6,28802
SLA2	-0,59119	6,335986	-1,5132	0,185944	0,306724	-6,2883
BECN1	0,185209	9,333611	1,512675	0,186073	0,306901	-6,28896
FAM106A	-0,43093	2,656106	-1,51251	0,186115	0,306934	-6,28917
FMN2	1,955416	1,839362	1,512129	0,186208	0,307052	-6,28964
GTF3C1	0,240589	6,580145	1,512029	0,186232	0,307056	-6,28977
OPA1	0,225251	7,713203	1,511656	0,186324	0,307172	-6,29024
WDR13	0,45114	5,380674	1,511527	0,186356	0,307188	-6,2904
RFX1	0,261305	7,284692	1,511434	0,186379	0,30719	-6,29052
PRKD3	0,211059	8,158439	1,510533	0,186601	0,307521	-6,29165
CCT3	0,255411	7,842605	1,509743	0,186796	0,307774	-6,29264
TTC17	0,228593	7,997789	1,509711	0,186804	0,307774	-6,29268

C2	-1,86532	3,358037	-1,50965	0,18682	0,307774	-6,29276
SMNDC1	0,209392	8,137551	1,508761	0,187039	0,308099	-6,29387
IRAK4	0,243568	7,849077	1,508208	0,187176	0,308288	-6,29456
GUK1	0,221332	7,466831	1,507985	0,187231	0,308343	-6,29484
PPA1	0,283992	7,119481	1,507846	0,187265	0,308364	-6,29501
ANKS3	0,503511	4,240831	1,507294	0,187402	0,308522	-6,2957
LRRC56	1,269118	1,496213	1,507282	0,187405	0,308522	-6,29572
BUB3	-0,26369	8,567439	-1,5071	0,187451	0,308561	-6,29595
PSMA6	0,471679	4,97652	1,50686	0,18751	0,308595	-6,29625
VPS52	-0,63237	4,355618	-1,50684	0,187515	0,308595	-6,29627
TUBGCP6	-0,60695	5,005662	-1,50669	0,187553	0,308621	-6,29647
EXOC5	-0,29155	8,046161	-1,50649	0,187602	0,308666	-6,29671
HNRNPU	0,190423	10,71402	1,506235	0,187665	0,308734	-6,29703
SBK1	-2,3601	4,817431	-1,50553	0,18784	0,30898	-6,29791
AMD1	-0,23863	9,081277	-1,50546	0,187858	0,30898	-6,29801
LY6G5C	0,912322	1,758458	1,504786	0,188024	0,309218	-6,29884
ADAMTS10	1,028719	3,050136	1,504591	0,188073	0,309261	-6,29909
FSD1L	-0,66905	4,314994	-1,50423	0,188161	0,309371	-6,29953
MCM9	0,520642	5,633572	1,50394	0,188235	0,30942	-6,2999
DNM1L	-0,22358	6,398659	-1,50394	0,188235	0,30942	-6,2999
TAF6L	-1,3023	1,586933	-1,50323	0,188412	0,309666	-6,3008
PCGF1	-0,90475	3,054826	-1,50316	0,188429	0,309666	-6,30088
GTF2H3	0,2477	7,257156	1,502947	0,188482	0,309718	-6,30114
BEND4	-0,86165	1,292481	-1,50225	0,188656	0,309968	-6,30202
EML3	-0,54856	4,797565	-1,50216	0,188679	0,309969	-6,30213
ZNF207	-0,22303	9,246982	-1,50175	0,188782	0,310102	-6,30265
PARP15	-0,53629	6,004848	-1,50034	0,189134	0,310644	-6,30441
WAC	0,183856	10,12066	1,499527	0,189336	0,31092	-6,30542
TMEM216	-0,67724	4,050521	-1,49949	0,189346	0,31092	-6,30547
XXYL1	-0,55936	2,494297	-1,4994	0,189367	0,31092	-6,30558
NCOA3	0,217408	9,292049	1,499277	0,189398	0,310933	-6,30573
TRAF6	-0,2613	5,215116	-1,49916	0,189427	0,310933	-6,30588
NEK3	-0,57667	4,403101	-1,4991	0,189442	0,310933	-6,30595
THBS3	-1,32116	2,434555	-1,49856	0,189577	0,311119	-6,30663
YPEL1	0,398427	5,686373	1,49829	0,189646	0,311196	-6,30697
CEP44	0,234313	6,905556	1,498151	0,189681	0,311217	-6,30714
SUGP2	0,263452	7,362473	1,497956	0,189729	0,311261	-6,30738
FAM131B	1,464106	1,260374	1,496895	0,189996	0,311662	-6,30871
UQCR10	-0,3373	7,155167	-1,49649	0,190097	0,311792	-6,30921
RDH11	0,208841	9,003031	1,496075	0,190201	0,311912	-6,30973
HDHD3	-1,25694	2,402448	-1,49602	0,190215	0,311912	-6,3098
PIGV	-0,7078	4,263349	-1,49546	0,190356	0,312108	-6,3105
SRRT	-0,2667	7,720624	-1,49495	0,190483	0,312281	-6,31113
BAG1	-0,21788	6,559918	-1,49422	0,190668	0,312535	-6,31205
TIGD5	0,816678	4,225409	1,494163	0,190683	0,312535	-6,31212
IDUA	-1,42101	2,717962	-1,49335	0,190888	0,312836	-6,31314
TRMT2B	-1,0349	5,883911	-1,49317	0,190932	0,312871	-6,31336
PELI1	0,289569	7,155281	1,492496	0,191103	0,313115	-6,3142
MRPL55	0,408264	5,855053	1,492292	0,191155	0,313163	-6,31446
MED13L	-0,21034	9,381077	-1,49212	0,191199	0,313199	-6,31467
ALG9	0,343442	4,364826	1,491981	0,191233	0,313219	-6,31484
THAP6	0,258542	6,364662	1,491789	0,191282	0,313229	-6,31508

ZNF185	-0,77479	3,95189	-1,49178	0,191284	0,313229	-6,31509
PCBP2	0,207887	10,31571	1,491351	0,191392	0,313371	-6,31563
NFAT5	0,350632	6,987314	1,491116	0,191452	0,313432	-6,31592
KIAA0895	1,848107	1,785708	1,490858	0,191517	0,313502	-6,31624
LFNG	-0,31158	7,117086	-1,4898	0,191785	0,313905	-6,31756
HPS3	-0,86958	5,557513	-1,48938	0,191891	0,314042	-6,31809
DYNLT1	-0,41048	6,922572	-1,48927	0,191919	0,314051	-6,31822
F11R	-0,92386	5,645993	-1,48915	0,191949	0,314064	-6,31837
TCTN2	-1,57142	2,452374	-1,48887	0,192021	0,314097	-6,31873
WDSUB1	-1,96423	4,03792	-1,48882	0,192034	0,314097	-6,31879
SLC35F5	0,451355	5,905849	1,48881	0,192036	0,314097	-6,3188
SGCE	0,740797	2,608481	1,488707	0,192062	0,314103	-6,31892
SIRT6	-0,72539	4,225598	-1,48769	0,192319	0,314487	-6,32019
TAF1C	0,349898	5,802318	1,486132	0,192716	0,3151	-6,32213
PRKCSH	0,492791	5,562807	1,485925	0,192768	0,315149	-6,32239
KATNB1	-1,16926	3,220263	-1,48572	0,192821	0,315197	-6,32264
RMND5A	0,222469	8,048174	1,485637	0,192842	0,315197	-6,32275
ATL2	0,396444	6,041752	1,485461	0,192887	0,315233	-6,32297
TMEM182	-1,19499	1,930827	-1,48491	0,193026	0,315425	-6,32365
RUNDC1	0,255753	6,232313	1,484804	0,193054	0,315426	-6,32379
PIWIL1	1,440643	1,581976	1,484437	0,193148	0,315426	-6,32424
BNIP2	-0,21693	9,1649	-1,48444	0,193148	0,315426	-6,32424
ARAF	-2,10583	4,290998	-1,48442	0,193151	0,315426	-6,32426
ADAMTS12	1,251629	0,959148	1,484124	0,193227	0,315426	-6,32463
CA10	1,251629	0,959148	1,484124	0,193227	0,315426	-6,32463
OR10Z1	1,251629	0,959148	1,484124	0,193227	0,315426	-6,32463
PXDNL	1,251629	0,959148	1,484124	0,193227	0,315426	-6,32463
RPL23AP32	1,251629	0,959148	1,484124	0,193227	0,315426	-6,32463
GAS1	-1,13077	0,89872	-1,48322	0,193458	0,315705	-6,32576
OR10H5	1,130772	0,89872	1,483221	0,193458	0,315705	-6,32576
CPSF4	-0,93421	5,034855	-1,48319	0,193466	0,315705	-6,32579
SGSM3	0,210977	4,908398	1,482927	0,193533	0,315774	-6,32612
WDFY2	0,358408	6,477872	1,48285	0,193553	0,315774	-6,32622
KLF5	0,344536	4,902801	1,482555	0,193628	0,315861	-6,32658
NOM1	0,209314	7,38152	1,482333	0,193685	0,315917	-6,32686
C7orf43	-1,62127	3,173125	-1,48152	0,193894	0,316214	-6,32788
MARVELD3	2,245355	1,896653	1,481444	0,193912	0,316214	-6,32797
TNFAIP8L1	-0,43168	6,044999	-1,48136	0,193934	0,316214	-6,32807
MRPL18	-0,26237	6,95614	-1,48003	0,194274	0,316731	-6,32972
MRPL13	-0,41628	6,477957	-1,47864	0,19463	0,317275	-6,33145
RNY4	0,717334	2,081976	1,478251	0,194731	0,317403	-6,33193
SSX2IP	-0,91438	4,985393	-1,4774	0,194949	0,317722	-6,33299
AKAP13	0,197097	10,48119	1,47727	0,194983	0,317741	-6,33315
SEC61A1	-0,24548	7,631108	-1,47718	0,195008	0,317744	-6,33327
NUDT16L1	-0,52875	7,07677	-1,47707	0,195035	0,317753	-6,3334
MRPL42	-0,29774	6,920714	-1,47691	0,195076	0,317783	-6,3336
NRL	-1,05664	0,861654	-1,47657	0,195163	0,317875	-6,33402
PEAK1	-0,31583	5,897072	-1,47651	0,195178	0,317875	-6,33409
PPM1N	-1,39529	2,57893	-1,47587	0,195344	0,31811	-6,33489
PGBD5	1,407464	1,232053	1,475405	0,195464	0,318267	-6,33547
CTDSP2	0,185708	8,526381	1,473319	0,196002	0,319108	-6,33806
ARSG	-1,32116	2,541864	-1,47297	0,196092	0,319217	-6,33849

H2AFJ	0,518405	5,571415	1,472122	0,196312	0,319538	-6,33954
PCGF6	0,403601	4,952196	1,471885	0,196373	0,319576	-6,33984
NXPH4	0,495142	2,957332	1,471858	0,19638	0,319576	-6,33987
THUMPD2	0,299026	5,720848	1,471514	0,19647	0,319685	-6,3403
BCL2A1	-0,24924	7,486868	-1,471	0,196603	0,319865	-6,34093
NDUFC2	-0,1927	7,77682	-1,47088	0,196635	0,319879	-6,34109
FOXP4	-1,37917	1,991881	-1,47067	0,196688	0,319929	-6,34134
SMARCA2	-0,23825	9,51365	-1,4705	0,196732	0,319964	-6,34155
AMPH	1,464106	1,065386	1,470111	0,196834	0,320019	-6,34204
FUT9	1,464106	1,065386	1,470111	0,196834	0,320019	-6,34204
GPR83	1,464106	1,065386	1,470111	0,196834	0,320019	-6,34204
IL1RN	-1,0269	6,434437	-1,46969	0,196943	0,32016	-6,34256
FBXO28	0,377953	6,575245	1,468898	0,197148	0,320457	-6,34354
ITPR1	-0,23358	8,041429	-1,46859	0,197228	0,320529	-6,34392
SCFD1	-0,2807	7,754762	-1,46844	0,197268	0,320529	-6,34411
CTNBL1	0,258682	7,472087	1,468389	0,197281	0,320529	-6,34417
POLE	0,456411	5,097219	1,468378	0,197284	0,320529	-6,34418
POLH	-0,66183	2,878869	-1,46753	0,197504	0,32085	-6,34523
CHST10	-0,80501	0,930827	-1,46717	0,197598	0,320966	-6,34568
SSSCA1	-1,5243	2,869458	-1,46638	0,197804	0,321264	-6,34666
KIR3DL1	-1,22602	1,386988	-1,46601	0,1979	0,321384	-6,34711
ZZEF1	0,275905	7,577398	1,465912	0,197926	0,321389	-6,34724
KDELC2	-0,28766	4,981905	-1,46577	0,197964	0,321412	-6,34741
UBQLN1	0,223308	8,7029	1,464873	0,198198	0,321755	-6,34852
CTCF	0,200929	8,986414	1,464636	0,19826	0,321819	-6,34882
EIF3A	0,203754	10,8603	1,464184	0,198378	0,321974	-6,34938
C3orf18	-1,35965	2,72292	-1,46409	0,198402	0,321977	-6,34949
ZNF280B	0,32373	4,431922	1,463788	0,198481	0,322068	-6,34986
DNAJB14	0,211709	9,073293	1,463628	0,198523	0,322073	-6,35006
GALNT6	-0,35521	4,929233	-1,4636	0,19853	0,322073	-6,35009
GINS4	-0,78752	3,103523	-1,46289	0,198716	0,322318	-6,35097
ZFAND6	0,208542	7,983126	1,462851	0,198727	0,322318	-6,35102
FARSB	0,424854	5,030355	1,462741	0,198755	0,322328	-6,35116
GPM6A	1,440643	2,601607	1,4623	0,198871	0,322478	-6,35171
NPHP3	0,326944	6,50403	1,462066	0,198932	0,322541	-6,352
BLNK	0,278559	6,733229	1,461366	0,199116	0,322769	-6,35286
VPS41	-0,26495	7,192806	-1,46136	0,199119	0,322769	-6,35287
IL1B	0,577444	8,51417	1,46025	0,199409	0,323182	-6,35424
NCLN	0,657962	6,018994	1,459603	0,199579	0,323182	-6,35504
ANKLE1	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
CHMP4C	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
FREM1	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
GP6	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
SPNS3	-0,96896	0,817815	-1,45952	0,199602	0,323182	-6,35515
C3orf70	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
OR2T12	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
SOBP	0,968964	0,817815	1,459516	0,199602	0,323182	-6,35515
MAP2K2	-0,85361	6,294095	-1,45939	0,199635	0,323198	-6,3553
TP53TG1	-0,65108	4,182476	-1,45894	0,199753	0,323352	-6,35586
PAIP1	-1,84279	3,774203	-1,4585	0,199869	0,32347	-6,3564
UBFD1	0,217978	6,826825	1,458491	0,199872	0,32347	-6,35641
UGDH	-0,25374	6,546393	-1,45818	0,199954	0,323558	-6,3568

ZFP41	1,124799	3,147362	1,45811	0,199972	0,323558	-6,35688
MYBPC3	0,848107	2,888159	1,457261	0,200196	0,323883	-6,35793
PUS10	-0,69311	4,40236	-1,45691	0,200289	0,323963	-6,35837
DEPDC7	-1,59028	1,902448	-1,4569	0,200291	0,323963	-6,35838
SDHD	-0,4234	6,249209	-1,45676	0,200329	0,323967	-6,35855
SAMD1	-0,39453	7,147252	-1,45668	0,200349	0,323967	-6,35865
RABL2B	0,333395	7,757382	1,456623	0,200364	0,323967	-6,35872
ZNF841	1,011005	2,757132	1,456545	0,200385	0,323967	-6,35882
DDX3X	-0,18952	9,638076	-1,45536	0,200697	0,324418	-6,36028
MUM1	-0,27809	6,504019	-1,45531	0,200712	0,324418	-6,36035
PPP1CB	-0,25121	9,082676	-1,45523	0,200733	0,324418	-6,36044
ATAD3B	-0,71585	3,032049	-1,4549	0,20082	0,324521	-6,36085
GOS2	0,470944	4,858927	1,454009	0,201056	0,324861	-6,36195
HGF	-1,24828	3,398115	-1,45393	0,201076	0,324861	-6,36204
ROM1	-1,03318	1,980695	-1,45356	0,201175	0,324937	-6,3625
SLC39A3	-0,55369	3,440795	-1,45347	0,201199	0,324937	-6,36262
SELP	1,63563	1,151148	1,453234	0,201261	0,324937	-6,3629
TMPRSS7	1,63563	1,151148	1,453234	0,201261	0,324937	-6,3629
INSC	1,63563	1,151148	1,453234	0,201261	0,324937	-6,3629
TPH2	1,63563	1,151148	1,453234	0,201261	0,324937	-6,3629
HIPK2	0,181424	9,358107	1,453146	0,201284	0,324937	-6,36301
LY75	-0,45552	7,319512	-1,45257	0,201438	0,325149	-6,36373
GOLGA8A	-0,23893	8,588826	-1,45239	0,201486	0,325188	-6,36395
MFNG	0,32286	7,124838	1,451546	0,201709	0,325511	-6,36498
UNC45A	-0,57686	5,177172	-1,45051	0,201985	0,32592	-6,36626
FBXO5	0,268107	5,609824	1,450053	0,202106	0,326042	-6,36682
KIAA2026	0,220848	9,135078	1,450049	0,202107	0,326042	-6,36683
TPR	0,195846	10,45576	1,449526	0,202246	0,32623	-6,36747
DNAJC19	-0,38339	7,056087	-1,44896	0,202396	0,326434	-6,36816
KSR1	-1,14007	5,527403	-1,44887	0,202422	0,326439	-6,36829
TRAPPC3	0,200031	6,571848	1,448564	0,202503	0,326531	-6,36866
HERC5	-0,23765	6,992403	-1,44734	0,202828	0,327016	-6,37016
HAL	0,63563	2,781921	1,447129	0,202885	0,327016	-6,37042
TTC22	-0,96896	1,151148	-1,44709	0,202896	0,327016	-6,37047
ZNF565	-0,96896	1,151148	-1,44709	0,202896	0,327016	-6,37047
CDC34	0,320661	5,301949	1,44648	0,203059	0,327236	-6,37122
MCOLN3	1,039262	2,576273	1,44636	0,203091	0,327236	-6,37137
ARL4C	-0,28684	10,86723	-1,44632	0,203102	0,327236	-6,37142
CUX2	2,18144	1,952374	1,446177	0,20314	0,327236	-6,3716
MYOM2	-1,34688	2,716535	-1,44615	0,203148	0,327236	-6,37163
ZNF30	-0,93864	2,933425	-1,4459	0,203213	0,327304	-6,37193
TTC38	-0,98888	3,644844	-1,4457	0,203267	0,327353	-6,37218
LAMB2	1,793607	1,425124	1,445393	0,20335	0,327449	-6,37256
COX14	0,230323	7,811327	1,444993	0,203457	0,327584	-6,37305
CSRP1	-0,64999	4,13723	-1,44484	0,203498	0,327614	-6,37324
ARF4	-0,28049	8,281673	-1,44365	0,203816	0,328088	-6,3747
RBBP7	0,258483	7,664844	1,4435	0,203857	0,328116	-6,37489
HS6ST3	1,686298	1,37147	1,443205	0,203936	0,328206	-6,37525
DCN	1,968964	1,512803	1,443082	0,203969	0,328222	-6,3754
USP38	0,283899	7,380339	1,442259	0,20419	0,328541	-6,37641
PIP4K2C	-0,57487	6,268458	-1,44201	0,204256	0,328609	-6,37671
NUP85	0,268837	7,565887	1,441787	0,204317	0,328648	-6,37699

C11orf95	-1,28267	2,522618	-1,44175	0,204327	0,328648	-6,37704
SLC16A7	0,208677	7,462005	1,441354	0,204433	0,328782	-6,37753
CELSR3	-1,18144	1,980695	-1,44122	0,204469	0,328802	-6,37769
CDK20	-1,49917	2,640392	-1,44095	0,204542	0,328883	-6,37802
SDK2	0,59994	6,772152	1,440574	0,204643	0,329008	-6,37849
TMTC2	0,570074	5,393695	1,438998	0,205068	0,329653	-6,38042
TESC	0,635094	5,058881	1,438141	0,205299	0,329987	-6,38147
CTDNEP1	0,210298	8,480724	1,437866	0,205374	0,330069	-6,38181
ZNF667	0,686298	1,87147	1,437688	0,205422	0,330095	-6,38203
ABI1	-0,20066	8,714204	-1,43763	0,205436	0,330095	-6,38209
RGS2	-0,21065	8,67916	-1,43739	0,205501	0,330162	-6,38239
PWWP2B	-1,90024	4,003412	-1,43724	0,205543	0,330191	-6,38258
ME2	0,262533	8,239859	1,436801	0,205662	0,330344	-6,38312
KIF21B	0,272271	7,407922	1,436395	0,205772	0,330468	-6,38362
TLK1	0,229159	9,011518	1,436344	0,205785	0,330468	-6,38368
ANKRD55	-1,17661	2,36228	-1,43623	0,205816	0,330479	-6,38381
MST1P2	1,631606	1,815803	1,435854	0,205918	0,330606	-6,38428
GMCL1	0,230564	7,905999	1,434938	0,206166	0,330967	-6,3854
AMIGO1	0,488342	4,257601	1,434435	0,206303	0,331148	-6,38602
HSPBAP1	-0,4835	5,094976	-1,43433	0,206333	0,331158	-6,38615
HMGB2	-0,23046	9,08952	-1,43385	0,206462	0,331328	-6,38674
RPSAP58	1,256225	3,14886	1,433288	0,206614	0,331535	-6,38743
LRRC28	0,445364	4,981511	1,433124	0,206659	0,331569	-6,38763
PPP1R14A	-1,08768	2,2536	-1,43277	0,206754	0,331685	-6,38806
FAM76B	-0,24554	7,633155	-1,4325	0,206829	0,331738	-6,38839
SPINK1	-1,43093	2,758558	-1,43248	0,206834	0,331738	-6,38842
JMJD6	0,402747	6,555513	1,432208	0,206908	0,331818	-6,38875
SLC25A12	0,418716	4,749737	1,431672	0,207054	0,332014	-6,38941
STAT4	0,375071	6,68555	1,431513	0,207097	0,332046	-6,3896
ITPKC	-0,79213	3,565328	-1,43052	0,207367	0,33231	-6,39082
MED12L	1,514774	1,285708	1,430506	0,207371	0,33231	-6,39083
SYT14	1,514774	1,285708	1,430506	0,207371	0,33231	-6,39083
ZG16	1,514774	1,285708	1,430506	0,207371	0,33231	-6,39083
INPPL1	0,185718	7,240625	1,430477	0,207379	0,33231	-6,39087
PIGW	-1,09617	4,268041	-1,43006	0,207494	0,332456	-6,39139
NBPF15	-0,57416	3,168363	-1,4299	0,207536	0,332485	-6,39157
GMPR2	-0,30642	6,347532	-1,4297	0,207591	0,332537	-6,39182
NAA35	0,203773	7,81487	1,428932	0,207801	0,332835	-6,39276
ETFDH	0,374303	5,084109	1,427174	0,208282	0,333567	-6,39491
RBM15	-0,30998	6,823598	-1,42677	0,208392	0,333705	-6,3954
LRRC45	-1,13077	1,89872	-1,42645	0,20848	0,333808	-6,3958
RFWD3	0,435836	6,242081	1,426185	0,208553	0,333887	-6,39612
PLA2G12A	0,529304	5,333351	1,424585	0,208992	0,334552	-6,39808
SEL1L	-0,17124	9,020229	-1,42421	0,209093	0,334677	-6,39853
NEURL3	1,787523	2,16288	1,424118	0,20912	0,334682	-6,39865
PIPSL	1,451212	2,448914	1,423589	0,209265	0,334877	-6,3993
MKKS	-0,54936	4,709082	-1,42326	0,209357	0,334943	-6,3997
ZNF720	0,291003	7,268601	1,423155	0,209384	0,334943	-6,39983
GCHFR	0,627936	3,885383	1,423155	0,209385	0,334943	-6,39983
C1orf74	-1,59363	3,057267	-1,42309	0,209402	0,334943	-6,3999
COA5	0,208191	7,167759	1,421851	0,209744	0,335452	-6,40142
OSBPL3	-0,29943	6,618981	-1,42146	0,209851	0,335585	-6,40189

MRPL16	-0,28024	7,294121	-1,42125	0,20991	0,335643	-6,40216
EXOSC7	-0,45435	6,093786	-1,42091	0,210003	0,335752	-6,40257
ARMC5	-0,47765	3,948588	-1,41987	0,21029	0,336174	-6,40384
CCNL2	-0,19741	8,687104	-1,41967	0,210346	0,336193	-6,40408
BCKDHA	-0,86165	0,76416	-1,41881	0,210582	0,336193	-6,40513
ESAM	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
HCN1	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
NR2F1	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
OR2A25	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
ZNF165	-0,86165	0,76416	-1,41881	0,210582	0,336193	-6,40513
C8orf34	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
DEFB113	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
LRFN5	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
MIA	0,861654	0,76416	1,418813	0,210582	0,336193	-6,40513
NAT1	-0,61522	4,42006	-1,41879	0,210587	0,336193	-6,40515
SCAPER	0,281317	7,971398	1,418494	0,210671	0,336288	-6,40552
ZNF737	0,653119	2,049868	1,418104	0,210779	0,336422	-6,40599
ROBO2	0,935785	2,103523	1,41778	0,210868	0,336527	-6,40639
WDR90	0,664115	4,293448	1,416904	0,211111	0,336877	-6,40746
GNRH1	0,561579	3,973061	1,415744	0,211433	0,337352	-6,40887
SH2D3A	0,563959	4,04378	1,415498	0,211501	0,337423	-6,40917
MRPL33	0,230866	8,149745	1,414574	0,211758	0,337795	-6,4103
FBXO44	-0,36651	3,509016	-1,4143	0,211835	0,33788	-6,41064
SKIV2L	0,588494	5,945585	1,413975	0,211924	0,33796	-6,41103
EIF1AX	0,196641	8,311785	1,41388	0,211951	0,33796	-6,41114
ARHGAP4	-0,47282	5,559148	-1,41386	0,211957	0,33796	-6,41117
CDH6	1,686298	1,704803	1,412418	0,212358	0,338478	-6,41292
NIPAL1	1,686298	1,704803	1,412418	0,212358	0,338478	-6,41292
VWDE	1,686298	1,704803	1,412418	0,212358	0,338478	-6,41292
SGSM2	0,284092	6,834896	1,412175	0,212426	0,338478	-6,41322
ZNF286A	-1,21385	2,154876	-1,4121	0,212446	0,338478	-6,41331
AASS	0,471679	2,204803	1,412088	0,21245	0,338478	-6,41332
CSNK1A1P:	0,471679	2,204803	1,412088	0,21245	0,338478	-6,41332
TRIM8	0,33117	6,7147	1,411527	0,212607	0,33869	-6,41401
EDC3	-0,77781	3,660164	-1,41134	0,212659	0,338735	-6,41424
TFDP1	-0,18843	6,910045	-1,4112	0,212697	0,338757	-6,4144
DBT	0,533801	6,162232	1,411061	0,212737	0,338782	-6,41457
GTPBP1	-1,46005	5,069424	-1,41032	0,212943	0,339072	-6,41547
FKBP11	0,596533	5,380959	1,408988	0,213316	0,339629	-6,4171
ZNF75A	0,395175	6,184262	1,408726	0,213389	0,339707	-6,41741
ST6GALNAC	0,550692	3,375082	1,407504	0,213732	0,340205	-6,4189
MAN1C1	0,477358	6,411986	1,407439	0,21375	0,340205	-6,41898
NDUFA2	-0,24169	7,788835	-1,40726	0,2138	0,340246	-6,4192
FAM3A	-0,66124	4,387259	-1,40659	0,213987	0,340505	-6,42001
MED16	-1,33333	2,773976	-1,40529	0,214354	0,341019	-6,42159
ZDHHC23	-0,30987	3,714175	-1,40527	0,214358	0,341019	-6,42161
VMA21	-0,18418	8,201841	-1,40408	0,214694	0,341515	-6,42306
HLA-C	0,31478	9,486366	1,403403	0,214885	0,341761	-6,42388
CUL3	0,236296	7,997082	1,403359	0,214897	0,341761	-6,42394
PSMA7	-0,19498	9,569306	-1,4029	0,215028	0,341931	-6,4245
EDEM1	0,20178	8,457641	1,401964	0,215291	0,342298	-6,42563
YWHAE	-0,20002	8,56172	-1,4019	0,215308	0,342298	-6,4257

PI4K2B	-0,61978	5,620719	-1,4015	0,215423	0,342443	-6,4262
SMAD2	-0,1923	8,329335	-1,40122	0,215501	0,342528	-6,42653
MORC3	0,195308	8,67141	1,400337	0,215751	0,342886	-6,4276
ZDHHHC13	-0,28011	6,054893	-1,4002	0,21579	0,342886	-6,42777
BCL2L12	-1,82803	3,83453	-1,40017	0,215798	0,342886	-6,42781
CDC42EP3	0,2186	7,895131	1,399645	0,215946	0,343082	-6,42844
AQP9	-1,3137	3,312112	-1,39949	0,215991	0,343115	-6,42863
IVD	-0,78861	5,462114	-1,39831	0,216325	0,343606	-6,43006
H3F3C	-0,86165	1,538136	-1,39781	0,216465	0,343791	-6,43066
EID2	0,241312	7,457575	1,397131	0,216659	0,34406	-6,43149
DNAJC9	-0,27196	5,997518	-1,39693	0,216717	0,344113	-6,43173
SP110	0,185292	8,97747	1,396357	0,216879	0,344332	-6,43243
MCMBP	0,181282	7,620468	1,395766	0,217047	0,34456	-6,43314
RASSF3	-0,22196	9,60823	-1,39553	0,217114	0,344627	-6,43342
ERP27	-1,14432	1,679469	-1,39477	0,21733	0,344927	-6,43435
CNPY2	0,268247	6,816431	1,394698	0,217352	0,344927	-6,43444
HARBI1	-0,50869	2,802297	-1,39451	0,217406	0,344944	-6,43467
PLEKHA4	0,705159	3,257328	1,394488	0,217411	0,344944	-6,43469
GDAP2	-0,19312	6,584505	-1,3922	0,218065	0,345942	-6,43746
BBIP1	-0,43636	6,060856	-1,39201	0,218118	0,345959	-6,43769
C9orf139	-1,2592	2,672696	-1,39198	0,218128	0,345959	-6,43773
ATG4A	-0,51672	4,686729	-1,39183	0,218171	0,345959	-6,43791
ANK2	1,566813	2,506715	1,391819	0,218173	0,345959	-6,43792
ACOT4	-1,76426	2,322773	-1,3912	0,218351	0,346202	-6,43867
POLG	-0,29431	6,645009	-1,39108	0,218386	0,346218	-6,43882
MSN	0,178174	11,13435	1,390586	0,218526	0,346387	-6,43941
GRPEL1	0,211147	7,503582	1,390532	0,218541	0,346387	-6,43947
BCL2L1	-0,46897	5,016101	-1,39018	0,218643	0,346509	-6,4399
HERC2	0,34732	7,331725	1,389743	0,218767	0,346667	-6,44043
LRRC8B	0,378965	4,759177	1,389563	0,218819	0,34671	-6,44064
KNG1	1,547952	1,440643	1,389093	0,218953	0,346799	-6,44121
RAD21L1	1,302297	1,179469	1,389026	0,218973	0,346799	-6,44129
TMEM40	1,302297	1,179469	1,389026	0,218973	0,346799	-6,44129
CHRNA1	-1,65449	3,442409	-1,38903	0,218973	0,346799	-6,44129
BOLA1	0,465474	4,630168	1,388404	0,219151	0,347009	-6,44205
NOP14	0,230231	7,796781	1,388306	0,219179	0,347009	-6,44216
POU2AF1	0,567905	5,567185	1,388306	0,219179	0,347009	-6,44216
TANC1	-0,94933	1,248642	-1,3869	0,219583	0,347609	-6,44386
ADIPOR1	-0,17897	7,379841	-1,38681	0,219608	0,347611	-6,44397
PPP1R13L	-1,72331	2,302297	-1,38615	0,2198	0,347842	-6,44477
SLC17A4	1,63563	1,591791	1,386134	0,219804	0,347842	-6,44479
AURKAIP1	-0,33988	6,562455	-1,386	0,219842	0,347864	-6,44495
GPR55	-1,09974	2,216535	-1,38538	0,220021	0,348108	-6,4457
SEMA6A	0,968964	2,012803	1,385128	0,220093	0,348183	-6,446
CCDC141	0,794888	4,870061	1,384539	0,220263	0,348413	-6,44671
D2HGDH	0,252564	5,749351	1,383186	0,220654	0,348992	-6,44834
PSMD1	-0,20143	9,090542	-1,38305	0,220693	0,349008	-6,44851
H3F3A	0,294436	6,126955	1,382979	0,220713	0,349008	-6,44859
SALL4	0,838191	3,397975	1,38267	0,220803	0,34911	-6,44896
FBXO47	1,528321	1,538136	1,381028	0,221278	0,349768	-6,45094
SPRY1	-1,08385	2,006029	-1,38099	0,221288	0,349768	-6,45099
CUTA	0,233813	7,139867	1,380927	0,221307	0,349768	-6,45106

CXCL1	1,0308	5,469612	1,380866	0,221325	0,349768	-6,45114
TRAF3IP3	0,216391	9,092338	1,380806	0,221342	0,349768	-6,45121
VPS26A	-0,22103	6,850786	-1,38038	0,221466	0,349924	-6,45173
SMPD2	-1,38998	2,13563	-1,37971	0,221661	0,350193	-6,45253
CCDC59	0,198412	8,497981	1,379606	0,22169	0,3502	-6,45266
CSGALNAC	-0,18154	8,256335	-1,37918	0,221813	0,350356	-6,45317
C12orf45	-0,21334	5,687315	-1,37893	0,221885	0,350407	-6,45346
IL4R	0,273404	8,506608	1,378898	0,221896	0,350407	-6,45351
GSDMD	-0,67384	5,206879	-1,37838	0,222046	0,350606	-6,45413
RLF	0,216374	8,441882	1,378166	0,222108	0,350636	-6,45439
BCKDHB	-1,62691	3,428618	-1,37808	0,222133	0,350636	-6,45449
GATC	-0,62545	6,686143	-1,37806	0,22214	0,350636	-6,45452
ENTHD1	1,376428	1,354881	1,37792	0,22218	0,35066	-6,45469
SPIB	0,623053	5,229353	1,37732	0,222354	0,350896	-6,45541
ANAPC4	-0,20543	6,885608	-1,37577	0,222807	0,351571	-6,45728
PRPF38A	0,213704	8,255636	1,375634	0,222845	0,351592	-6,45744
CREB3	-0,53895	5,795198	-1,37507	0,223008	0,35181	-6,45811
ERMAP	0,978904	4,0362	1,374844	0,223076	0,351877	-6,45839
MRPL14	-0,49656	5,853892	-1,3744	0,223206	0,352044	-6,45892
YWHAZ	0,182344	9,782086	1,374086	0,223297	0,352148	-6,4593
SIKE1	-0,21506	7,445216	-1,37385	0,223367	0,352213	-6,45958
JMJD1C	0,214455	8,923875	1,373774	0,223388	0,352213	-6,45967
CWF19L1	0,324895	6,184316	1,373384	0,223502	0,352302	-6,46014
TBL3	-1,34325	1,728266	-1,37333	0,223517	0,352302	-6,4602
LYSMD1	-1,25163	1,625815	-1,37324	0,223544	0,352302	-6,46031
CHPF	-1,25163	1,625815	-1,37324	0,223544	0,352302	-6,46031
KDM2A	0,219234	9,336422	1,372572	0,223739	0,352571	-6,46112
SEN5	0,199428	6,35675	1,371441	0,224071	0,353053	-6,46247
YIPF6	-0,24401	6,689678	-1,37118	0,224147	0,353134	-6,46279
PCMTD1	0,191789	8,795811	1,370934	0,224219	0,353208	-6,46308
QARS	0,271433	6,284296	1,369949	0,224508	0,353613	-6,46426
RTF1	0,179734	9,02601	1,369886	0,224526	0,353613	-6,46434
LRRC39	1,514774	1,619041	1,369471	0,224648	0,353766	-6,46484
ALYREF	-0,24858	6,023684	-1,36937	0,224679	0,353775	-6,46496
RANBP10	0,447915	5,009992	1,367139	0,225334	0,354767	-6,46764
UBE4B	0,197996	7,098264	1,365783	0,225734	0,355327	-6,46926
DDR1	-1,77669	3,871136	-1,36574	0,225746	0,355327	-6,46931
SH3TC2	1,705159	1,714234	1,365678	0,225765	0,355327	-6,46939
MAP1LC3B	1,194988	2,566457	1,365306	0,225875	0,355449	-6,46983
POLM	0,235486	4,751868	1,365243	0,225893	0,355449	-6,46991
CBR3	-1,4595	3,170395	-1,36456	0,226095	0,355703	-6,47073
ZNF404	-0,83819	2,883201	-1,36453	0,226105	0,355703	-6,47077
DPYSL3	1	2,876428	1,363486	0,226413	0,356147	-6,47201
MAPK3	-1,16778	4,508271	-1,36293	0,226576	0,356346	-6,47267
FBLN7	0,481595	3,071415	1,36285	0,226601	0,356346	-6,47277
RPP21	-1,59379	2,46356	-1,36273	0,226637	0,356346	-6,47292
LN2	0,444225	5,815557	1,362718	0,22664	0,356346	-6,47293
PEX14	-0,30461	5,106778	-1,36262	0,226668	0,356351	-6,47305
EARS2	0,364936	4,802733	1,36187	0,226891	0,356662	-6,47395
FAM13A	-0,49611	5,668474	-1,3614	0,227029	0,35684	-6,47451
LARP4	0,248364	7,193289	1,361286	0,227064	0,356855	-6,47465
WDR11	0,213051	7,602725	1,360954	0,227162	0,35697	-6,47504

FADS1	-0,64494	4,897697	-1,36078	0,227215	0,357013	-6,47525
RHOG	-0,23605	6,870412	-1,36058	0,227272	0,357063	-6,47549
C17orf97	0,599696	3,709454	1,359906	0,227474	0,35734	-6,4763
MCC	-1,10731	1,94363	-1,35974	0,227524	0,357379	-6,4765
SSB	0,211939	9,258316	1,359482	0,2276	0,357458	-6,4768
RABGAP1	0,179059	7,899672	1,358935	0,227762	0,357674	-6,47746
PLEKHM3	-0,29052	5,98598	-1,35848	0,227898	0,357847	-6,478
TFAP2A	1,6462	1,684754	1,358189	0,227984	0,357918	-6,47835
PAM	-0,77244	5,46775	-1,35816	0,227994	0,357918	-6,47839
IL2RA	0,298349	6,712647	1,358055	0,228024	0,357926	-6,47851
BCAR3	-1,30015	2,814028	-1,35661	0,228454	0,358561	-6,48023
SLC37A4	-0,76436	5,197746	-1,35646	0,228499	0,358588	-6,48041
FST	0,881285	2,81707	1,356384	0,228522	0,358588	-6,48051
MTA3	0,460091	5,412424	1,356254	0,228561	0,358609	-6,48066
B3GAT1	-0,28157	4,094999	-1,35594	0,228656	0,358703	-6,48104
ALDH1L2	-1,02346	2,221493	-1,35588	0,228672	0,358703	-6,4811
NPEPL1	-0,65695	4,42438	-1,3557	0,228727	0,358749	-6,48132
TBRG1	0,191012	8,412698	1,355549	0,228772	0,35878	-6,4815
ATG2A	-0,46189	5,897143	-1,35515	0,228891	0,358928	-6,48198
USP32	-0,58048	5,004486	-1,35493	0,228956	0,35899	-6,48224
ZNF324	0,930357	4,036593	1,354379	0,229121	0,359209	-6,4829
PREX1	0,171136	9,817674	1,354101	0,229204	0,359275	-6,48323
RILPL1	-0,63349	2,619041	-1,35407	0,229214	0,359275	-6,48327
GAS6	-1,13835	2,399791	-1,35348	0,229389	0,35951	-6,48397
NCKAP1	0,522116	3,551179	1,353347	0,22943	0,359527	-6,48413
TAF11	0,17287	7,108435	1,353211	0,229471	0,359527	-6,48429
ANKRD36B	0,478764	5,982635	1,353192	0,229476	0,359527	-6,48432
TM7SF2	0,740797	3,339362	1,353012	0,22953	0,359571	-6,48453
HKDC1	-1,50595	3,013428	-1,35275	0,229609	0,359655	-6,48484
SAMD4A	-1,71762	3,328606	-1,35258	0,229659	0,359694	-6,48504
RARS	0,219718	8,327148	1,352198	0,229774	0,359834	-6,4855
RERG	1,214619	1,273976	1,351816	0,229889	0,359973	-6,48596
ELAC1	-0,92252	3,557166	-1,35079	0,230197	0,360416	-6,48718
ZNF70	-1,4743	3,177794	-1,35039	0,230318	0,360566	-6,48766
SVIL	-0,85578	4,99369	-1,35003	0,230425	0,360663	-6,48808
DNAJC1	-0,21237	7,953348	-1,34994	0,230451	0,360663	-6,48819
CHML	-0,27171	6,140593	-1,34992	0,230457	0,360663	-6,48821
WWOX	0,616994	4,360103	1,349696	0,230526	0,36071	-6,48848
TEX264	-0,70582	4,119312	-1,34965	0,230538	0,36071	-6,48853
KLHL26	0,26818	4,68298	1,349332	0,230635	0,360822	-6,48892
ZNF738	0,357797	5,030887	1,349035	0,230724	0,360922	-6,48927
SIRT7	-0,31301	6,967035	-1,34836	0,230929	0,361202	-6,49008
MIS18A	0,348637	5,831799	1,34827	0,230955	0,361202	-6,49018
UQCR11	0,245354	7,677368	1,347459	0,231199	0,361545	-6,49115
RAD51B	1,078018	3,466129	1,346956	0,231351	0,361737	-6,49175
WDR54	0,558829	5,889817	1,346881	0,231374	0,361737	-6,49183
INCENP	-0,58802	3,873934	-1,34588	0,231676	0,36217	-6,49303
OR2G6	1,18144	1,119041	1,345659	0,231743	0,362234	-6,49329
FASN	-0,92424	5,190103	-1,34488	0,231977	0,36256	-6,49421
FBXO3	0,180825	7,53972	1,344581	0,232069	0,362664	-6,49457
RBM28	-0,2033	7,420291	-1,34447	0,232103	0,362675	-6,49471
MALT1	-0,16763	8,070226	-1,34439	0,232128	0,362675	-6,4948

ABCD2	0,305957	5,104082	1,343828	0,232297	0,362899	-6,49547
ZCRB1	0,206393	8,37885	1,343564	0,232377	0,362984	-6,49578
EXOSC9	0,251984	7,302001	1,342947	0,232564	0,363188	-6,49651
KATNAL1	-0,51438	4,18157	-1,34288	0,232583	0,363188	-6,49659
TMEM14A	-1,20825	4,622552	-1,34285	0,232592	0,363188	-6,49662
COQ9	-1,82189	3,941863	-1,34273	0,23263	0,363188	-6,49677
DCUN1D3	-0,79006	3,989909	-1,34271	0,232636	0,363188	-6,4968
PPM1H	-0,66667	0,861654	-1,34046	0,233319	0,364215	-6,49947
RALGPS1	-0,85744	3,376173	-1,33995	0,233473	0,364416	-6,50007
COPS4	-0,4164	5,503177	-1,33943	0,233632	0,364623	-6,50069
IVNS1ABP	0,348218	8,794415	1,339257	0,233685	0,364626	-6,5009
COMMD4	-0,3548	4,821718	-1,33926	0,233685	0,364626	-6,5009
C17orf49	1,163951	1,248642	1,33905	0,233748	0,364642	-6,50114
MEP1A	1,163951	1,248642	1,33905	0,233748	0,364642	-6,50114
SLC12A9	-0,4938	5,354679	-1,33779	0,234132	0,365201	-6,50264
SLC10A7	-0,41203	5,324375	-1,33762	0,234184	0,365243	-6,50284
TNFAIP3	0,182225	10,33512	1,337403	0,23425	0,365305	-6,50309
ANKRD23	1,407464	1,232053	1,337256	0,234295	0,365335	-6,50327
PKD2	0,326456	5,129775	1,337051	0,234357	0,365383	-6,50351
ATP2B1	-0,29259	9,301991	-1,33699	0,234378	0,365383	-6,50359
SCGB2A2	1,130772	2,006029	1,336567	0,234505	0,365541	-6,50409
CABIN1	0,186675	6,979353	1,33645	0,234541	0,365557	-6,50423
POLR3K	-0,52788	5,272406	-1,33563	0,234791	0,365906	-6,50519
CLPX	0,249823	7,849289	1,33528	0,234899	0,366034	-6,50561
DPY19L4	0,248808	5,939215	1,334817	0,23504	0,366214	-6,50616
PINX1	-0,94796	2,902448	-1,33292	0,235622	0,367081	-6,50841
EIF4EBP2	-0,25826	8,357965	-1,33258	0,235726	0,367183	-6,50881
DVL3	-0,45802	6,321149	-1,33249	0,235753	0,367183	-6,50892
GPR137B	-0,45561	5,314176	-1,33245	0,235766	0,367183	-6,50896
YME1L1	0,192946	8,518518	1,331863	0,235947	0,367424	-6,50966
SHPRH	0,282821	7,882859	1,331224	0,236143	0,367688	-6,51041
CERS5	-0,30919	5,79325	-1,33113	0,236173	0,367695	-6,51053
STAT5A	0,199759	7,868933	1,330001	0,236519	0,368193	-6,51186
UFL1	0,203797	8,343708	1,329472	0,236682	0,368389	-6,51249
XCL1	0,84819	5,074523	1,329367	0,236714	0,368389	-6,51261
TMEM169	-1,04309	2,188214	-1,32934	0,236723	0,368389	-6,51264
RBPJ	-0,17126	9,687307	-1,3291	0,236796	0,368463	-6,51293
KLF12	0,19575	8,032871	1,328872	0,236867	0,368532	-6,5132
DDX19B	-1,22961	5,055917	-1,32878	0,236894	0,368534	-6,5133
PRC1	1,316653	2,673125	1,328466	0,236992	0,368646	-6,51368
BBS12	-1,21002	2,597435	-1,32785	0,237181	0,3689	-6,5144
ALG8	0,328557	6,131478	1,327751	0,237213	0,368907	-6,51452
CD52	0,304807	9,832438	1,327531	0,237281	0,368973	-6,51478
COPZ1	0,17619	7,726985	1,326164	0,237703	0,369589	-6,5164
HSCB	0,648895	3,919326	1,325989	0,237757	0,369633	-6,5166
PTPN23	-1,28666	4,857947	-1,32574	0,237835	0,369683	-6,5169
ERVK13-1	0,556911	6,003444	1,325716	0,237842	0,369683	-6,51693
DYRK1B	-1,26452	2,796209	-1,32525	0,237986	0,369866	-6,51747
PPFIA1	-0,2584	7,783757	-1,32511	0,23803	0,369894	-6,51764
PTP4A3	-0,86165	1,87147	-1,32494	0,238081	0,369933	-6,51784
NUDT3	-0,26109	7,328004	-1,32388	0,238409	0,370402	-6,51909
LDLRAP1	-0,7069	7,104188	-1,32364	0,238483	0,370421	-6,51937

NINL	-1	1,273976	-1,32354	0,238517	0,370421	-6,5195
PUSL1	-1	1,273976	-1,32354	0,238517	0,370421	-6,5195
NKD1	0,578989	3,086933	1,323506	0,238527	0,370421	-6,51953
HTT	0,340759	6,364963	1,322068	0,238973	0,371039	-6,52123
PFDN6	-0,6666	5,755512	-1,32206	0,238977	0,371039	-6,52124
B3GNT7	1,107309	1,220321	1,321423	0,239174	0,371263	-6,52199
FAM83A	1,107309	1,220321	1,321423	0,239174	0,371263	-6,52199
RB1CC1	0,206515	9,316809	1,320652	0,239414	0,371592	-6,5229
CD226	-0,2763	7,6277	-1,32057	0,239438	0,371592	-6,52299
KBTBD8	0,673254	4,611216	1,320251	0,239538	0,371707	-6,52337
SF3B5	-0,24159	8,572699	-1,31998	0,239623	0,371797	-6,52369
FKRP	0,402382	4,120737	1,319289	0,239838	0,37209	-6,5245
NMRAL1	-1,62611	3,662018	-1,31889	0,239962	0,372242	-6,52497
GPN3	-0,57034	5,967709	-1,3186	0,240053	0,372342	-6,52531
SHC2	-0,72331	0,694988	-1,31826	0,240159	0,372343	-6,52571
TTC24	-0,72331	0,694988	-1,31826	0,240159	0,372343	-6,52571
CDC26	-0,72331	0,694988	-1,31826	0,240159	0,372343	-6,52571
KCNA5	-0,72331	0,694988	-1,31826	0,240159	0,372343	-6,52571
UNC13D	-0,50232	4,989064	-1,31797	0,240249	0,372442	-6,52605
SMARCD2	-0,38766	6,468146	-1,31773	0,240324	0,372488	-6,52634
ZXDB	0,351811	5,156392	1,317707	0,240332	0,372488	-6,52637
TMEM120E	-0,56396	3,558554	-1,31746	0,240409	0,372566	-6,52665
PSMA1	-0,20221	8,646368	-1,31667	0,240658	0,372911	-6,52759
PDCD2L	0,296092	4,048192	1,316444	0,240727	0,372967	-6,52785
RFX6	0,749647	3,784429	1,316373	0,240749	0,372967	-6,52794
FAM122A	-0,3805	5,805047	-1,3163	0,240773	0,372967	-6,52803
SLC12A2	0,16555	7,18345	1,315954	0,24088	0,373083	-6,52843
AGFG2	-1,66421	3,703673	-1,31589	0,2409	0,373083	-6,5285
ANKRD52	-0,47377	5,618449	-1,31566	0,240972	0,373138	-6,52877
TM9SF3	-0,16168	9,363686	-1,31561	0,240989	0,373138	-6,52884
KAT7	0,255815	7,384609	1,315059	0,24116	0,373363	-6,52948
HGSNAT	-0,23705	7,129147	-1,31463	0,241296	0,373532	-6,52999
TNRC6B	0,182706	10,57655	1,31305	0,241791	0,374257	-6,53184
MORN4	-1,52075	2,093707	-1,31279	0,241874	0,374345	-6,53215
PTDSS2	0,319786	2,939843	1,312339	0,242014	0,374482	-6,53268
CDK19	-0,19223	8,126889	-1,3123	0,242025	0,374482	-6,53272
DIAPH1	-0,17497	9,651834	-1,31224	0,242047	0,374482	-6,5328
RBM46	1,224142	3,002046	1,312158	0,242071	0,374482	-6,53289
ELOF1	0,247378	5,680501	1,312054	0,242104	0,374482	-6,53301
ARID3B	-0,22992	6,869805	-1,312	0,242122	0,374482	-6,53308
RNF114	-0,16035	7,81661	-1,31183	0,242175	0,374523	-6,53328
NHLRC3	-0,23635	6,927452	-1,31157	0,242258	0,37461	-6,53359
TDG	0,211286	7,13688	1,311314	0,242337	0,374663	-6,53388
NME4	-1,52832	2,954112	-1,31116	0,242385	0,374663	-6,53406
C1orf112	-1,24851	2,616681	-1,31116	0,242386	0,374663	-6,53407
UBR5	0,191129	8,944315	1,311121	0,242398	0,374663	-6,53411
TMEM14C	-0,36353	7,001226	-1,31069	0,242534	0,374833	-6,53462
PXK	-0,19556	7,828977	-1,31054	0,242579	0,374862	-6,53479
COQ10B	-0,22502	7,107277	-1,3099	0,242783	0,37499	-6,53554
COL5A1	1,14432	1,346136	1,309877	0,24279	0,37499	-6,53557
L1TD1	1,14432	1,346136	1,309877	0,24279	0,37499	-6,53557
MC1R	1,245655	1,151148	1,309776	0,242821	0,37499	-6,53569

PTPRF	1,245655	1,151148	1,309776	0,242821	0,37499	-6,53569
SNORD97	1,245655	1,151148	1,309776	0,242821	0,37499	-6,53569
COLQ	0,645153	2,870529	1,309241	0,24299	0,37521	-6,53632
NTM	1,074131	2,172696	1,309134	0,243024	0,37522	-6,53644
NBEAL1	0,250353	6,695567	1,308859	0,243111	0,375314	-6,53676
WNK3	1,407464	1,565386	1,308281	0,243293	0,375554	-6,53744
RPF1	-0,20155	7,740379	-1,30793	0,243404	0,375685	-6,53785
KIF11	0,460274	3,425124	1,307614	0,243504	0,375794	-6,53822
PPP2R5B	-1,5615	3,264487	-1,30754	0,243529	0,375794	-6,53831
ZNF204P	0,502692	5,425213	1,307437	0,24356	0,375802	-6,53843
08-mar	0,191304	8,103891	1,307023	0,243691	0,375963	-6,53892
SLC9A7	-0,25878	5,506287	-1,30659	0,243828	0,376134	-6,53942
DCTN2	0,222719	7,172221	1,306363	0,2439	0,376176	-6,53969
ZNF786	0,389407	5,749556	1,306281	0,243926	0,376176	-6,53979
GAPDH	-0,48647	9,48686	-1,30625	0,243936	0,376176	-6,53982
NIPSNAP1	0,845951	4,126252	1,306068	0,243993	0,376224	-6,54003
AES	0,259822	10,28335	1,305654	0,244124	0,376385	-6,54052
SEC23A	-0,21757	7,797813	-1,3052	0,244268	0,376561	-6,54105
ATXN7L1	0,258016	6,432712	1,305126	0,244292	0,376561	-6,54114
AATF	0,231545	6,56151	1,304726	0,244419	0,376715	-6,54161
RMND1	-0,40068	3,952803	-1,30438	0,244529	0,376845	-6,54202
ZBTB38	-0,1718	8,909975	-1,30351	0,244805	0,377229	-6,54303
ISPD	-1,13077	2,501171	-1,30198	0,245292	0,377938	-6,54482
TP53BP1	0,196183	6,986888	1,301752	0,245364	0,378007	-6,54509
HDAC7	0,188094	8,315277	1,301525	0,245436	0,378077	-6,54535
CDC16	0,196877	6,869204	1,300932	0,245625	0,378327	-6,54605
XRCC5	0,173395	9,99536	1,300471	0,245772	0,378506	-6,54658
IPPK	-0,35018	5,409038	-1,3004	0,245795	0,378506	-6,54667
KIAA1324	0,709761	3,236166	1,300268	0,245837	0,37853	-6,54682
VILL	0,857822	2,559684	1,299851	0,24597	0,378693	-6,54731
ITPA	0,187248	6,876556	1,298989	0,246245	0,379076	-6,54832
CLNK	1,290708	3,10946	1,298884	0,246278	0,379086	-6,54844
SIRT1	-0,19196	7,730373	-1,29829	0,246467	0,379335	-6,54913
DCAKD	-1,65929	3,461249	-1,29639	0,247075	0,380229	-6,55135
EPS15	0,199714	8,462521	1,296127	0,247161	0,380299	-6,55166
STK32C	0,502996	5,725037	1,296084	0,247174	0,380299	-6,55171
KBTBD2	0,203362	7,815202	1,295537	0,24735	0,380527	-6,55235
TARS	0,209896	8,685413	1,295319	0,247419	0,380593	-6,5526
VEGFB	-0,46872	6,714996	-1,2938	0,247906	0,381301	-6,55437
MAGED2	-0,40365	5,763115	-1,29305	0,248148	0,381631	-6,55524
PIGH	-1,09611	4,450506	-1,29288	0,248204	0,381632	-6,55545
CABYR	1,440643	1,386988	1,292796	0,24823	0,381632	-6,55554
OR8H1	1,440643	1,386988	1,292796	0,24823	0,381632	-6,55554
RNF25	-0,86165	2,538136	-1,29253	0,248314	0,38172	-6,55585
RBM48	0,431766	6,189378	1,292002	0,248485	0,381928	-6,55647
RERE	0,178849	8,483362	1,291947	0,248503	0,381928	-6,55653
CSAD	0,387755	6,116272	1,291412	0,248675	0,382151	-6,55716
PCSK5	-0,36028	5,033387	-1,2911	0,248775	0,382263	-6,55752
GFPT1	-0,19461	7,120429	-1,28987	0,249174	0,382808	-6,55896
SQLE	-0,2535	6,027836	-1,28975	0,249213	0,382808	-6,5591
YPEL3	0,163667	7,464466	1,289739	0,249215	0,382808	-6,5591
DPH2	0,362936	5,49099	1,289668	0,249238	0,382808	-6,55919

NPTXR	-1,73848	3,984005	-1,28878	0,249526	0,383209	-6,56022
GNAI1	1,269118	2,270189	1,288328	0,249671	0,383323	-6,56075
VIPR2	-1,02346	2,285708	-1,2883	0,249679	0,383323	-6,56077
ARFRP1	0,410831	5,407628	1,288271	0,24969	0,383323	-6,56081
EMB	0,208559	9,022688	1,28821	0,249709	0,383323	-6,56088
ZAP70	0,512949	5,390679	1,287937	0,249798	0,383417	-6,5612
SPINT1	-1,08768	1,317815	-1,2877	0,249873	0,383492	-6,56147
EEF1E1	0,237132	6,634945	1,286841	0,250152	0,383878	-6,56247
SEC22A	0,267506	5,229176	1,286395	0,250297	0,384059	-6,56299
SLC25A20	-0,88695	5,161117	-1,2861	0,250394	0,384126	-6,56334
ARHGAP19	-0,36551	6,249847	-1,28609	0,250395	0,384126	-6,56335
SEMA3C	-0,45776	5,11144	-1,28553	0,250579	0,384333	-6,564
MAGI3	-1,08684	3,814682	-1,28551	0,250585	0,384333	-6,56402
STARD13	1,275741	3,66879	1,285215	0,25068	0,384437	-6,56436
BPI	-0,65909	2,329547	-1,2845	0,250911	0,384749	-6,56519
SRRM1	0,170384	10,05822	1,284096	0,251043	0,384911	-6,56566
DDIT4	0,312565	7,047062	1,283638	0,251192	0,385097	-6,5662
SIN3B	0,273818	6,407283	1,283441	0,251256	0,385148	-6,56642
PDZD8	0,217117	7,217892	1,283369	0,25128	0,385148	-6,56651
CSNK2A2	0,162815	8,613982	1,283068	0,251377	0,385152	-6,56686
TIPIN	0,356122	4,314525	1,283066	0,251378	0,385152	-6,56686
TUBGCP2	-0,18002	7,037294	-1,28298	0,251405	0,385152	-6,56696
VOPP1	0,304083	7,211483	1,282945	0,251417	0,385152	-6,567
RPRD2	0,192179	8,019899	1,282943	0,251418	0,385152	-6,567
SGTB	0,216608	7,113974	1,282488	0,251566	0,385337	-6,56753
RAD18	0,393338	5,443263	1,281912	0,251754	0,385582	-6,5682
GBP3	-0,20877	7,204487	-1,28174	0,251809	0,385625	-6,56839
SLC4A5	0,978487	2,458207	1,280877	0,252091	0,386015	-6,5694
SDHAP1	-1,24703	2,666608	-1,28017	0,252322	0,386326	-6,57022
EXPH5	0,642862	4,689194	1,280029	0,252368	0,386355	-6,57038
HAUS3	0,191391	7,006182	1,279751	0,252459	0,386453	-6,5707
C1orf159	0,384001	3,922765	1,279595	0,25251	0,386489	-6,57089
CDON	1,012712	4,008954	1,279383	0,252579	0,386553	-6,57113
MAP2K1	-0,34323	7,714793	-1,27871	0,2528	0,386849	-6,57191
TRAF7	-0,33721	6,67805	-1,27809	0,253003	0,387116	-6,57263
ADAM17	-0,16012	8,217881	-1,27801	0,253029	0,387116	-6,57273
PDE5A	1,23348	2,006715	1,27781	0,253094	0,387173	-6,57295
RALBP1	0,210987	8,538821	1,275959	0,2537	0,388059	-6,5751
MRPL20	0,192739	7,798715	1,27522	0,253943	0,388388	-6,57595
SPINT2	-0,37821	6,576666	-1,27431	0,254242	0,388804	-6,57701
TMEM87B	-0,16591	7,911192	-1,27374	0,25443	0,389049	-6,57767
POLR2G	-0,46995	6,707438	-1,27296	0,254685	0,389397	-6,57856
IFI27L2	-0,5405	5,010928	-1,27265	0,254787	0,38951	-6,57892
RPL26L1	-0,50152	5,160597	-1,27074	0,255418	0,390433	-6,58113
F8	0,368972	5,280558	1,270326	0,255554	0,390599	-6,58161
ATP1A1	0,182817	8,56283	1,27022	0,255589	0,39061	-6,58173
WDR27	0,814353	4,995467	1,269774	0,255737	0,390763	-6,58224
DRG1	-0,35535	5,624901	-1,26975	0,255744	0,390763	-6,58227
KLHDC7A	1,547952	1,440643	1,269529	0,255818	0,390833	-6,58253
FAM126A	0,182191	6,824957	1,269306	0,255891	0,390903	-6,58278
ARCN1	0,171782	8,280099	1,268808	0,256056	0,391099	-6,58336
VAMP7	0,20333	6,452748	1,268752	0,256075	0,391099	-6,58343

TSTA3	-1,25026	2,191942	-1,26747	0,2565	0,391671	-6,58491
GARNL3	0,968964	1,874457	1,267384	0,256528	0,391671	-6,585
MSTO1	-1,53041	3,047034	-1,26737	0,256533	0,391671	-6,58502
PSMA5	0,237943	7,684741	1,266502	0,25682	0,392067	-6,58602
ZDHC9	-1,814	3,923617	-1,26635	0,256872	0,392073	-6,5862
CLNS1A	0,26127	7,940361	1,266323	0,256879	0,392073	-6,58623
RLN2	1,18144	2,22635	1,266184	0,256925	0,392101	-6,58639
PWWP2A	0,26252	8,645352	1,265994	0,256988	0,392155	-6,5866
SYT17	1,516146	1,532049	1,265609	0,257116	0,392308	-6,58705
TSNAX	-0,23662	7,344606	-1,26549	0,257157	0,392327	-6,58719
CBFA2T2	0,167507	6,910908	1,263749	0,257735	0,393166	-6,58919
AUTS2	0,211041	8,165458	1,263181	0,257924	0,393412	-6,58984
TAF15	0,257111	7,878605	1,262902	0,258017	0,393506	-6,59017
BCAS3	0,505136	4,894172	1,262829	0,258041	0,393506	-6,59025
SPRYD7	-0,23273	5,696065	-1,26247	0,258162	0,393638	-6,59067
LRWD1	0,872224	3,071742	1,262402	0,258183	0,393638	-6,59074
XPR1	-0,18427	6,030693	-1,26101	0,258648	0,394305	-6,59234
LRRC58	-0,19692	7,585807	-1,2596	0,259119	0,394979	-6,59396
CNN2	-0,2536	7,883172	-1,25895	0,259337	0,39527	-6,59471
AP2A2	-0,42301	5,608242	-1,25798	0,259661	0,395721	-6,59583
C2orf27A	-1,02346	1,285708	-1,25715	0,259938	0,396058	-6,59677
TMEM234	-1,02346	1,285708	-1,25715	0,259938	0,396058	-6,59677
CCDC50	0,171421	7,930172	1,256604	0,260122	0,39627	-6,5974
CD99P1	-1,07413	1,065386	-1,2563	0,260223	0,39627	-6,59775
SLC44A5	-1,07413	1,065386	-1,2563	0,260223	0,39627	-6,59775
SLCO1A2	1,074131	1,065386	1,256302	0,260223	0,39627	-6,59775
ENGASE	0,212696	6,572126	1,256246	0,260242	0,39627	-6,59781
SEMA7A	0,42129	4,041263	1,256236	0,260246	0,39627	-6,59783
ORAI1	-0,4507	5,296588	-1,25585	0,260376	0,396426	-6,59827
MEIG1	1,019631	1,038136	1,255494	0,260495	0,396564	-6,59868
CAPZB	-0,15123	9,514281	-1,25469	0,260765	0,396933	-6,5996
SMAD1	-0,44064	2,351094	-1,25427	0,260905	0,397102	-6,60008
EIF5A	0,335541	5,464636	1,254029	0,260987	0,397185	-6,60036
POLR2I	-1,76872	4,115522	-1,25355	0,261148	0,397387	-6,6009
HAUS4	-0,36831	5,857339	-1,25332	0,261227	0,397464	-6,60117
ZNF41	-0,77781	3,377499	-1,25319	0,261271	0,397476	-6,60132
ANKMY2	-2,19514	5,138403	-1,25313	0,261291	0,397476	-6,60139
ZNF543	0,415777	4,045962	1,252624	0,261461	0,397691	-6,60197
PHKA2	-0,33821	5,010454	-1,25178	0,261744	0,39808	-6,60293
SLC25A3	0,162446	9,284666	1,251694	0,261774	0,398083	-6,60303
SETD1A	0,351435	6,017884	1,251424	0,261865	0,398178	-6,60334
C8orf37	0,930749	3,327029	1,25101	0,262005	0,398348	-6,60382
NAA20	-0,17118	7,096788	-1,25055	0,262161	0,398542	-6,60434
TFIP11	0,443909	5,619437	1,250292	0,262248	0,398631	-6,60464
CUL4A	-0,19363	8,559662	-1,25001	0,262342	0,398706	-6,60496
GOLGA4	-0,18129	9,765617	-1,24998	0,262353	0,398706	-6,605
CHCHD4	-0,22911	5,557131	-1,24939	0,262553	0,398967	-6,60567
NIT2	-0,22957	6,098515	-1,24811	0,262986	0,399582	-6,60713
SHQ1	-1,34346	5,150806	-1,2468	0,263429	0,400212	-6,60863
TRAPPC12	0,399589	5,784574	1,24471	0,26414	0,401249	-6,61102
HSP90AB1	-0,1571	11,48345	-1,24439	0,264249	0,401371	-6,61138
KATNA1	-0,43709	6,569787	-1,24413	0,264339	0,401465	-6,61169

DEK	-0,16892	10,36682	-1,24402	0,264375	0,401477	-6,61181
PSKH1	-0,52024	5,510215	-1,24367	0,264495	0,401615	-6,61221
TYK2	-0,43881	5,299669	-1,24211	0,265027	0,402381	-6,61399
ALDH18A1	0,443639	5,159747	1,241929	0,265088	0,402429	-6,61419
ACAT1	-0,38196	5,637874	-1,24086	0,265453	0,402941	-6,61541
UBE2K	-0,16255	8,496139	-1,24056	0,265554	0,403051	-6,61575
TECR	0,901515	3,143029	1,240398	0,265611	0,403069	-6,61594
OSGEP	-0,53185	6,291778	-1,2403	0,265646	0,403069	-6,61605
ATP11C	0,23673	7,587498	1,240226	0,265669	0,403069	-6,61613
CELF2	-0,16599	10,63581	-1,24019	0,26568	0,403069	-6,61617
COL12A1	1,440643	1,053655	1,240034	0,265735	0,403097	-6,61635
PSTK	1,376428	1,688214	1,239974	0,265756	0,403097	-6,61642
RCHY1	0,204092	7,551152	1,239801	0,265815	0,403143	-6,61662
PCDH9	0,249979	6,364822	1,239688	0,265854	0,403159	-6,61675
AK2	-0,19403	6,882724	-1,23957	0,265894	0,403176	-6,61688
XKR8	-0,55101	4,387952	-1,23895	0,266107	0,40343	-6,61759
RAB2B	0,273982	6,590293	1,238865	0,266135	0,40343	-6,61768
PIGC	0,207346	6,790804	1,238713	0,266187	0,40343	-6,61786
MED10	0,193833	8,348414	1,238625	0,266217	0,40343	-6,61796
U2AF2	0,290858	8,22679	1,238553	0,266242	0,40343	-6,61804
KCNE4	1,269118	0,967892	1,2384	0,266294	0,40343	-6,61821
OCM	1,269118	0,967892	1,2384	0,266294	0,40343	-6,61821
MDFIC	-0,1707	8,818175	-1,23835	0,266312	0,40343	-6,61827
STYXL1	-0,7097	5,469382	-1,23833	0,266318	0,40343	-6,61829
CCL22	-0,74296	4,878269	-1,23818	0,266371	0,403448	-6,61847
CLINT1	0,153874	9,63857	1,238129	0,266387	0,403448	-6,61852
HARS2	0,402685	6,239988	1,237196	0,266707	0,403826	-6,61958
AFF4	0,238775	8,63637	1,237079	0,266747	0,403826	-6,61972
ACAP3	1,019081	3,080956	1,237079	0,266748	0,403826	-6,61972
DGCR6L	-1,44173	2,874011	-1,23707	0,266751	0,403826	-6,61973
ATP9A	0,675827	4,507178	1,2366	0,266912	0,404026	-6,62026
SUMF2	0,300411	5,785366	1,235946	0,267136	0,404322	-6,62101
ALG10	-1,25163	2,894933	-1,23586	0,267165	0,404322	-6,6211
GRSF1	-0,19737	8,577938	-1,23472	0,267559	0,404876	-6,6224
ZDHHC24	0,297312	6,473207	1,232908	0,268182	0,405775	-6,62446
B3GNT2	0,198893	7,345288	1,231565	0,268646	0,406433	-6,62598
RIOK3	0,187284	7,528059	1,231099	0,268806	0,406633	-6,62651
RIN3	0,466642	5,879243	1,230182	0,269123	0,407069	-6,62755
ANXA13	1,547952	1,302297	1,229848	0,269239	0,4072	-6,62793
EPHB4	0,921845	2,096553	1,229305	0,269427	0,407291	-6,62855
TAF7	0,163403	9,025347	1,229137	0,269485	0,407291	-6,62874
KAZN	1,056642	0,861654	1,229013	0,269528	0,407291	-6,62888
LCNL1	1,056642	0,861654	1,229013	0,269528	0,407291	-6,62888
MAGEB3	1,056642	0,861654	1,229013	0,269528	0,407291	-6,62888
TMEM171	1,056642	0,861654	1,229013	0,269528	0,407291	-6,62888
TOB2P1	1,056642	0,861654	1,229013	0,269528	0,407291	-6,62888
C5orf34	1,019631	2,094778	1,229008	0,26953	0,407291	-6,62888
SNTB2	-0,27548	6,585187	-1,22887	0,269578	0,407321	-6,62904
NOP56	-0,18596	7,341629	-1,22733	0,270111	0,408072	-6,63078
FRY	0,486011	6,458056	1,227266	0,270133	0,408072	-6,63086
DNAJC27-A	1,507854	1,282248	1,22718	0,270163	0,408074	-6,63095
BZW1	0,218793	7,988529	1,226875	0,270269	0,408153	-6,6313

CPSF2	0,240065	8,144411	1,226863	0,270273	0,408153	-6,63131
MAP7	1,101035	3,242789	1,225804	0,270641	0,408636	-6,63251
CDRT4	1,194988	1,459148	1,225777	0,270651	0,408636	-6,63254
ZNF608	0,662642	3,533765	1,225623	0,270704	0,408673	-6,63272
IL2RG	0,267238	8,430665	1,225281	0,270823	0,408778	-6,6331
OR51I2	1,340789	1,337061	1,225249	0,270834	0,408778	-6,63314
FANCA	-1,16706	3,698298	-1,22516	0,270864	0,408778	-6,63324
TBL1XR1	0,173999	8,744002	1,225089	0,27089	0,408778	-6,63332
SPAG9	0,185949	8,428138	1,224977	0,270929	0,408794	-6,63345
SURF4	0,184346	8,89786	1,224206	0,271197	0,409155	-6,63432
NKX3-1	1	0,833333	1,224029	0,271259	0,40916	-6,63452
CA5A	1	1,166667	1,224029	0,271259	0,40916	-6,63452
CCDC90B	0,251092	7,389233	1,2234	0,271478	0,409447	-6,63523
MLF2	-0,28622	6,127476	-1,2233	0,271511	0,409454	-6,63534
ZNF219	-0,63184	4,329808	-1,22307	0,271593	0,409533	-6,6356
CEP350	-0,16317	9,94436	-1,22292	0,271646	0,40957	-6,63578
DTNBP1	-0,20179	7,555614	-1,22279	0,271692	0,409588	-6,63593
UBE2M	-0,77183	4,686332	-1,22272	0,271716	0,409588	-6,636
ABHD10	-0,37578	5,981198	-1,22255	0,271773	0,409631	-6,63619
SDHA	0,200368	7,123737	1,222202	0,271896	0,409771	-6,63659
HSPBP1	-0,63155	4,131122	-1,22207	0,271943	0,409777	-6,63674
TMEM219	-0,22277	6,719927	-1,22202	0,27196	0,409777	-6,63679
SH3KBP1	0,160305	9,633056	1,221941	0,271987	0,409777	-6,63688
KCTD11	-1,46899	2,003612	-1,22112	0,272273	0,410166	-6,63781
ZNF518B	-0,15866	6,864848	-1,22069	0,272425	0,410351	-6,6383
GSTM4	-1,12617	2,60618	-1,2205	0,272492	0,410405	-6,63851
HSP90B3P	1,483737	2,408535	1,220417	0,272519	0,410405	-6,6386
ERLIN2	0,174413	6,805924	1,218705	0,273119	0,411264	-6,64054
TOMM5	0,830526	3,705385	1,218425	0,273217	0,411367	-6,64085
RAB11FIP4	0,153881	6,681325	1,218127	0,273321	0,411465	-6,64119
PBX3	-0,29132	6,80039	-1,21807	0,27334	0,411465	-6,64125
OXSM	0,310686	4,279631	1,217876	0,273409	0,411526	-6,64147
ARHGAP11	-0,28669	3,88226	-1,21775	0,273453	0,411539	-6,64161
TOR1A	-0,23504	6,342271	-1,21769	0,273476	0,411539	-6,64168
SRP14	0,149256	10,28142	1,217311	0,273607	0,411693	-6,64211
PRR13	-0,22307	8,071177	-1,21658	0,273864	0,412035	-6,64293
CRYGS	-0,93578	0,801226	-1,21639	0,273929	0,412089	-6,64314
CAPN7	0,226593	8,346801	1,216127	0,274023	0,412187	-6,64344
MRPS28	-0,25598	5,196156	-1,21594	0,27409	0,412238	-6,64366
ZNF621	0,372928	6,606035	1,215864	0,274115	0,412238	-6,64374
EEF2K	-0,20522	5,835427	-1,21517	0,274358	0,412559	-6,64452
TP53RK	-0,60146	6,246341	-1,21488	0,274462	0,412671	-6,64485
CDK14	-0,52769	5,535108	-1,21395	0,274791	0,413121	-6,6459
HAUS5	-0,96768	3,829231	-1,21333	0,275008	0,413404	-6,64659
KARS	-0,15724	8,712056	-1,21321	0,275051	0,413424	-6,64673
RAC2	-0,3254	9,025069	-1,21177	0,275557	0,41414	-6,64834
ANO3	1,269118	1,496213	1,211633	0,275606	0,414171	-6,6485
CD47	-0,16728	9,22862	-1,21135	0,275707	0,414278	-6,64882
PHKG2	-1,49917	3,598548	-1,20925	0,276448	0,41534	-6,65117
FREM2	1,18144	1,452374	1,209185	0,276472	0,41534	-6,65125
ELP4	0,364954	6,199208	1,209017	0,276532	0,415386	-6,65144
DGCR8	-0,47575	5,689859	-1,2089	0,276573	0,415402	-6,65157

MRPL52	-0,34242	6,651585	-1,20861	0,276677	0,415516	-6,6519
SLCO1B1	1,563721	1,643514	1,20771	0,276995	0,415909	-6,65291
PPM1G	0,167644	8,242342	1,207701	0,276998	0,415909	-6,65292
POMGNT1	-1,34582	3,196198	-1,20755	0,277053	0,415947	-6,65309
GNAI3	0,165728	8,989816	1,207309	0,277137	0,41603	-6,65336
PRDM4	0,260061	6,130939	1,207207	0,277174	0,41604	-6,65347
PCYT2	-0,90015	3,085703	-1,20672	0,277345	0,41625	-6,65402
ICK	-0,44298	5,949471	-1,20665	0,277373	0,41625	-6,6541
SNX25	0,286104	5,462267	1,206028	0,277592	0,416536	-6,6548
FTSJ3	0,243777	6,335567	1,205541	0,277766	0,416752	-6,65534
OBSCN	-1,10731	2,660964	-1,2047	0,278066	0,417158	-6,65629
LSM14A	0,17574	9,150278	1,204544	0,27812	0,417162	-6,65646
NEDD8	0,194335	8,133305	1,204523	0,278128	0,417162	-6,65648
SMC4	0,180631	9,565168	1,204358	0,278186	0,417206	-6,65667
CCDC68	-0,86165	0,76416	-1,20409	0,278281	0,417304	-6,65697
NOL7	-0,23398	8,030669	-1,20388	0,278358	0,417375	-6,65721
GLRX3	0,160577	6,550588	1,202769	0,278753	0,417922	-6,65845
NRCAM	0,647805	2,947358	1,201903	0,279062	0,418212	-6,65942
GTF2E1	0,332033	6,686033	1,201876	0,279072	0,418212	-6,65945
C6orf58	1,269118	1,16288	1,20173	0,279124	0,418212	-6,65961
NEFM	1,269118	1,16288	1,20173	0,279124	0,418212	-6,65961
SORCS1	1,269118	1,16288	1,20173	0,279124	0,418212	-6,65961
TRIM58	1,269118	1,16288	1,20173	0,279124	0,418212	-6,65961
MYCBP2	-0,16513	9,830907	-1,20152	0,279197	0,418278	-6,65984
SEC22C	0,17376	7,078092	1,200931	0,279409	0,418541	-6,6605
ABTB1	-1,11144	4,661523	-1,20087	0,279432	0,418541	-6,66058
METTL17	0,230059	7,886843	1,200756	0,279472	0,418556	-6,6607
SPICE1	0,476535	4,876521	1,200129	0,279696	0,418848	-6,6614
NT5DC1	-0,19297	7,2332	-1,19974	0,279834	0,41901	-6,66183
SNX5	-0,17026	8,810095	-1,19939	0,279962	0,419158	-6,66223
MRPS34	0,245167	6,184557	1,199243	0,280013	0,41919	-6,66239
FSIP2	1,214619	2,381285	1,199155	0,280045	0,419192	-6,66249
SIRT5	0,348619	6,457628	1,198826	0,280163	0,419324	-6,66286
SP3	-0,19188	8,038002	-1,19842	0,280308	0,419497	-6,66331
KLHL7	-0,24984	5,145489	-1,19795	0,280477	0,419686	-6,66384
PTGS2	-1,1014	5,754646	-1,1979	0,280494	0,419686	-6,66389
KBTBD3	-1,00992	4,335576	-1,19698	0,280823	0,420135	-6,66492
USP22	0,19645	8,688851	1,196646	0,280945	0,420237	-6,66529
CFH	-1,42699	3,368754	-1,19663	0,280951	0,420237	-6,66531
NUP37	0,281232	6,32803	1,195485	0,281362	0,420778	-6,66659
TNFRSF11B	1,460274	1,591791	1,195457	0,281372	0,420778	-6,66662
MYLK4	-0,99243	1,829547	-1,19505	0,281517	0,420916	-6,66707
CRYZ	-0,25078	6,713334	-1,19503	0,281524	0,420916	-6,66709
NBEAL2	0,306244	5,581878	1,194129	0,28185	0,421355	-6,6681
CADM2	0,89632	4,205898	1,193987	0,281901	0,421355	-6,66826
INTS6	0,174678	7,835323	1,193971	0,281907	0,421355	-6,66828
RPA4	0,848107	1,952374	1,193699	0,282005	0,421457	-6,66858
IPO8	0,268989	7,846683	1,192882	0,2823	0,421853	-6,66949
AKAP8	0,194083	7,38488	1,192417	0,282468	0,422059	-6,67001
TTC39B	-0,26029	6,875709	-1,19223	0,282535	0,422115	-6,67022
FAM83G	-0,82322	3,360107	-1,19156	0,282777	0,422431	-6,67096
CD244	-0,36122	5,176658	-1,19147	0,282808	0,422434	-6,67106

PPP3CB	0,155311	7,775766	1,190897	0,283017	0,422701	-6,6717
TSSC4	-0,95679	4,188155	-1,19059	0,283127	0,422821	-6,67204
HARS	-0,44121	5,323196	-1,19042	0,28319	0,422854	-6,67224
NDUFA6	-0,18004	7,896903	-1,19036	0,283209	0,422854	-6,6723
IPO4	-0,91369	2,833275	-1,18994	0,283364	0,423041	-6,67277
WASF2	0,151527	9,002282	1,189296	0,283596	0,423342	-6,67348
SCAMP1	-0,29568	7,45413	-1,18859	0,283851	0,423676	-6,67427
PACRGL	-1,1186	2,666608	-1,18851	0,283879	0,423676	-6,67435
CCZ1	-0,1494	7,437536	-1,18836	0,283937	0,423717	-6,67453
LARP1B	0,203187	7,157481	1,187955	0,284082	0,423869	-6,67498
RRP9	-1,37518	2,948042	-1,18791	0,284099	0,423869	-6,67503
VPS39	0,289611	5,689052	1,187528	0,284237	0,423978	-6,67545
CCDC92	-0,25353	6,0097	-1,18748	0,284254	0,423978	-6,6755
DCT	1,740184	1,805877	1,187458	0,284262	0,423978	-6,67553
SUPT4H1	-0,53944	4,361665	-1,18687	0,284476	0,424213	-6,67618
GEMIN6	0,430458	4,990144	1,186861	0,284479	0,424213	-6,67619
USF2	-0,17276	8,758323	-1,18634	0,28467	0,424452	-6,67678
ARL16	-1,31584	2,92704	-1,18517	0,285095	0,424685	-6,67807
CUTC	0,293486	6,007339	1,184283	0,285416	0,424685	-6,67905
PIGQ	-0,91615	2,006029	-1,18401	0,285515	0,424685	-6,67935
DCTN3	-1,79313	4,383044	-1,18396	0,285533	0,424685	-6,67941
NELL1	1,425375	2,819997	1,182941	0,285906	0,424685	-6,68054
CACNB3	-0,77398	0,720321	-1,18279	0,285961	0,424685	-6,68071
FAM71F2	0,773976	0,720321	1,18279	0,285961	0,424685	-6,68071
RSPO3	0,773976	0,720321	1,18279	0,285961	0,424685	-6,68071
TMEM244	-0,77398	0,720321	-1,18279	0,285961	0,424685	-6,68071
AMPD2	-0,86499	5,261609	-1,18114	0,286563	0,424685	-6,68254
PSMD11	0,188435	8,074893	1,181071	0,286588	0,424685	-6,68262
MRPL46	-0,72858	3,726779	-1,18081	0,286685	0,424685	-6,68291
PNMA1	0,238596	6,301596	1,180713	0,286719	0,424685	-6,68301
TRPT1	-1,53714	3,59919	-1,18006	0,28696	0,424685	-6,68374
FAM160A2	-1,80256	4,361795	-1,17996	0,286996	0,424685	-6,68385
TFPT	-1,82299	4,430968	-1,17962	0,287118	0,424685	-6,68422
CHST7	-0,44064	4,370725	-1,17799	0,287716	0,424685	-6,68602
PEX26	-0,21128	7,174103	-1,17776	0,287801	0,424685	-6,68628
NRIP3	-1,32978	3,26086	-1,1777	0,287824	0,424685	-6,68635
DBF4	-0,21517	6,435904	-1,17698	0,288087	0,424685	-6,68714
RSAD2	-0,50844	5,626984	-1,1766	0,288228	0,424685	-6,68757
ICA1L	0,987789	3,639465	1,173697	0,289295	0,424685	-6,69077
SPRYD4	0,302693	5,149508	1,17357	0,289341	0,424685	-6,69091
ZNF343	-1,02346	2,393017	-1,17347	0,289378	0,424685	-6,69102
CROCC	-1,12636	4,776596	-1,17308	0,289524	0,424685	-6,69146
ANKRD13D	0,246192	6,129979	1,17289	0,289592	0,424685	-6,69166
AAMP	-0,29545	7,850779	-1,17228	0,289818	0,424685	-6,69234
DNAAF2	-0,18297	6,510851	-1,17117	0,290227	0,424685	-6,69356
SCNM1	0,219887	6,022641	1,171075	0,290262	0,424685	-6,69366
ACAD11	0,912322	0,984482	1,170992	0,290293	0,424685	-6,69375
ADCYAP1	0,912322	0,984482	1,170992	0,290293	0,424685	-6,69375
UBQLN4	-0,91232	0,984482	-1,17099	0,290293	0,424685	-6,69375
GRM7	0,912322	0,984482	1,170992	0,290293	0,424685	-6,69375
PRR4	0,912322	0,984482	1,170992	0,290293	0,424685	-6,69375
ZNF430	0,209582	7,10127	1,170742	0,290386	0,424685	-6,69403

AGPAT1	0,259006	6,245042	1,170486	0,29048	0,424685	-6,69431
BIN2	-0,2771	8,293249	-1,17026	0,290564	0,424685	-6,69456
PDE1C	1,107309	1,081976	1,170088	0,290627	0,424685	-6,69475
RAP1B	0,228546	8,525537	1,169561	0,290823	0,424685	-6,69533
ARHGAP30	-0,17583	9,230501	-1,16949	0,29085	0,424685	-6,69541
NCBP1	0,191016	7,016717	1,169209	0,290953	0,424685	-6,69572
PTGDR	-0,38985	5,860778	-1,1692	0,290955	0,424685	-6,69573
ZNF555	0,493956	4,810602	1,168939	0,291053	0,424685	-6,69602
GPKOW	-1,5969	3,967714	-1,16879	0,29111	0,424685	-6,69618
NCAPH2	-0,55839	4,524379	-1,16812	0,291356	0,424685	-6,69692
TRIM14	-0,17003	7,270236	-1,16811	0,291359	0,424685	-6,69693
MMRN1	-1,13077	1,232053	-1,16793	0,291426	0,424685	-6,69712
DOHH	-1,55936	2,220321	-1,16741	0,29162	0,424685	-6,6977
BMP8B	-1,46411	2,172696	-1,16689	0,291812	0,424685	-6,69827
SHPK	-1,10731	1,610296	-1,16689	0,291814	0,424685	-6,69828
SSBP1	0,148516	8,990599	1,166657	0,291899	0,424685	-6,69853
LMTK3	-1,16395	1,581976	-1,16664	0,291906	0,424685	-6,69855
ZNF322	-0,72507	3,725024	-1,16652	0,29195	0,424685	-6,69868
ZFP64	-0,25202	5,0166	-1,16645	0,291975	0,424685	-6,69875
C19orf25	-1,59829	3,935609	-1,16617	0,292082	0,424685	-6,69907
SYTL1	-0,7408	3,748968	-1,16611	0,292103	0,424685	-6,69913
PUS7	-0,4485	4,84719	-1,16533	0,292393	0,424685	-6,69999
DDX21	0,181029	10,36546	1,164643	0,292648	0,424685	-6,70074
SIAH1	0,216424	5,277043	1,164543	0,292685	0,424685	-6,70085
LATS1	0,193477	8,343071	1,164459	0,292717	0,424685	-6,70094
DCAF15	-1,27763	2,5746	-1,1644	0,292738	0,424685	-6,70101
SPECC1L	-0,83706	5,226848	-1,16407	0,292861	0,424685	-6,70137
ECHDC1	-0,15471	7,221973	-1,16406	0,292865	0,424685	-6,70138
IL1RAPL1	1,163951	1,248642	1,163665	0,293012	0,424685	-6,70182
PFDN2	0,218252	7,527444	1,163566	0,293049	0,424685	-6,70192
ELMOD2	0,147752	6,270243	1,163435	0,293098	0,424685	-6,70207
REV1	0,183201	7,278915	1,162913	0,293293	0,424685	-6,70264
SMARCAL1	-0,43007	4,715317	-1,16284	0,293321	0,424685	-6,70273
JAKMIP3	1,723308	0,861654	1,162802	0,293334	0,424685	-6,70276
ANKRD27	-0,36106	7,04645	-1,16268	0,293379	0,424685	-6,70289
THSD1	1,666667	0,833333	1,16254	0,293432	0,424685	-6,70305
STRN4	-0,49619	4,509641	-1,16232	0,293515	0,424685	-6,7033
PTOV1	0,203331	4,660905	1,162091	0,293599	0,424685	-6,70354
ST6GALNAC	1,547952	0,773976	1,161896	0,293672	0,424685	-6,70376
AHDC1	0,348441	5,706007	1,161468	0,293832	0,424685	-6,70423
LST1	0,47019	7,546795	1,161319	0,293888	0,424685	-6,70439
MCM2	-0,61865	4,628601	-1,16128	0,293904	0,424685	-6,70444
TTBK2	0,157058	7,419474	1,161182	0,293939	0,424685	-6,70454
ARX	1,440643	0,720321	1,161172	0,293943	0,424685	-6,70455
LIX1	1,440643	0,720321	1,161172	0,293943	0,424685	-6,70455
MYH16	1,440643	0,720321	1,161172	0,293943	0,424685	-6,70455
TEKT1	1,440643	0,720321	1,161172	0,293943	0,424685	-6,70455
ARMC1	0,154445	8,065082	1,160315	0,294263	0,424685	-6,70549
ABLIM3	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
ARHGAP44	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
DDX25	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
DNAI2	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626

HEPACAM2	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
KAZALD1	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
MAPK8IP2	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
PLEKHD1	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
PLVAP	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
RBPMS	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
SAMD14	1,269118	0,634559	1,159616	0,294525	0,424685	-6,70626
RPP38	0,468972	5,526658	1,158832	0,294818	0,424685	-6,70712
TBL2	0,242001	5,838957	1,158376	0,294989	0,424685	-6,70762
ZNF34	0,656843	4,131552	1,158122	0,295084	0,424685	-6,70789
ADAM20	0,992427	2,024534	1,157676	0,295251	0,424685	-6,70838
ATP1B4	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
DLX3	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
HAND2	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
LHX4	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
PDZK1	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
RHOJ	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
SLC28A1	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
WNK4	1,107309	0,553655	1,157447	0,295337	0,424685	-6,70863
WDR17	0,473821	2,367683	1,157156	0,295446	0,424685	-6,70895
ABCC8	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
ALOX15	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
ANKRD45	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
ATP2B2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
BTN1A1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
C16orf78	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
C20orf202	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
CCDC74A	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
CDC25C	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
CKMT2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
COL9A2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
CYP2B6	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
DPEP3	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
EPHB3	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
EVPL	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
FAM133A	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
FAM186B	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
FBLIM1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
FLG	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
FOXI1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
GAD2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
GCGR	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
GIPC2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
GLB1L	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
HTN1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
IDI2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
IFNA8	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
KCNE2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
KIAA0319	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
LGI1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
LYPD6B	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
OR6F1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096

P2RX6	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
PEBP4	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
PFN1P2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
PODNL1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
POLR2J2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
POU6F2	1,056642	1,056642	1,156559	0,295671	0,424685	-6,7096
RDH8	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
RNF182	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
RSPH6A	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
RSP02	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
SH3RF2	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
SLC17A8	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
SLC22A3	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
SLC6A3	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
TCAM1P	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
THBS4	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
TMPRSS12	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
TPRXL	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
TSPAN8	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
VAX1	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
WFDC13	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
ZNF705A	1,056642	0,528321	1,156559	0,295671	0,424685	-6,7096
WDFY3-AS2	1,056642	1,056642	1,156559	0,295671	0,424685	-6,7096
MFSD5	-0,22966	6,192561	-1,15618	0,295814	0,424685	-6,71002
SOS1	0,194513	9,311963	1,155912	0,295914	0,424685	-6,71031
TMEM143	-0,8163	3,484423	-1,15568	0,296001	0,424685	-6,71057
PIK3C3	0,155574	8,180986	1,155578	0,296039	0,424685	-6,71068
ANTXR1	1	0,5	1,155404	0,296104	0,424685	-6,71087
KCNC2	1	0,5	1,155404	0,296104	0,424685	-6,71087
KCNK3	1	0,5	1,155404	0,296104	0,424685	-6,71087
LINC00242	1	0,5	1,155404	0,296104	0,424685	-6,71087
LINC00314	1	0,5	1,155404	0,296104	0,424685	-6,71087
PRR18	1	0,5	1,155404	0,296104	0,424685	-6,71087
RPS26P11	1	0,5	1,155404	0,296104	0,424685	-6,71087
SNORA2B	1	0,5	1,155404	0,296104	0,424685	-6,71087
SNORD12C	1	0,5	1,155404	0,296104	0,424685	-6,71087
TMEM17	1	0,5	1,155404	0,296104	0,424685	-6,71087
DDX51	0,273578	4,83963	1,155261	0,296159	0,424685	-6,71102
LONRF2	0,63563	2,374457	1,155142	0,296203	0,424685	-6,71115
FAM133B	0,297908	6,668492	1,155051	0,296237	0,424685	-6,71125
ZNF714	0,506044	5,040428	1,154805	0,29633	0,424685	-6,71152
C10orf95	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
CMTM2	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
EFNB3	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
FAAH	-0,93578	0,467892	-1,15384	0,296693	0,424685	-6,71258
GPX3	-0,93578	0,467892	-1,15384	0,296693	0,424685	-6,71258
HPX	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
KCNC1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
KLHL30	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
LEFTY2	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
MANSC1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
PCDHGB7	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258

PROKR1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
RGR	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
RHPN2	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
RIBC1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
RSPH1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
SERPINC1	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
SMO	0,935785	0,467892	1,153839	0,296693	0,424685	-6,71258
TDRD6	-0,93578	0,467892	-1,15384	0,296693	0,424685	-6,71258
UNC5B	-0,93578	0,467892	-1,15384	0,296693	0,424685	-6,71258
ZNF563	0,625532	3,596682	1,153699	0,296747	0,424685	-6,71273
ATXN7L3	0,216133	6,348875	1,152833	0,297073	0,424685	-6,71368
ENTPD4	-0,33452	6,922259	-1,15253	0,297187	0,424685	-6,71401
C1orf115	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
DSCC1	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
FOXC1	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
GPBAR1	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
MPP3	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
OPHN1	-0,86165	0,430827	-1,15159	0,297541	0,424685	-6,71503
EXOC7	0,213069	6,73553	1,151522	0,297568	0,424685	-6,71511
DYNC1I2	0,166971	7,834699	1,15152	0,297568	0,424685	-6,71511
RBM39	0,154534	10,71771	1,150955	0,297782	0,424685	-6,71573
SRM	-0,37843	5,777336	-1,15015	0,298085	0,424685	-6,7166
MEFV	-1,26666	3,009757	-1,14974	0,298239	0,424685	-6,71705
RENB	-0,86165	1,204803	-1,14944	0,298355	0,424685	-6,71738
C8orf31	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
INHA	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
KDM4D	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
RGMA	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
SPINK2	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
TRIP13	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
ADH6	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
ANGPTL2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
B4GALNT1	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
BMP3	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
BTNL8	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
C17orf77	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
CABP5	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
CDHR4	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
CLTCL1	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
CPB2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
CYP4F22	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
DOC2B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
EEF1A2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
EGFEM1P	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
EPHX4	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
EXO1	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
FAM182B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
FAM3B	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
FKBP9	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
GCG	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
GDF10	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
GJA3	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886

GPC4	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
GPR88	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
GRM2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
HIST1H3A	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
HIST1H4F	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
HOTAIR	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
HOXB-AS3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
HOXB5	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
IL24	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
IL31	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
ITGA8	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
KIF6	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
KIFC1	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
KL	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
KRBOX1	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
MOGAT3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
MSH5	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
MYCT1	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
MYOM3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
NACAD	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
NCR2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
NMUR2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
NOX3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
OR10K2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
P4HA3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
PDZK1IP1	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
PGAM2	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
PHKA1	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
RBM14-RBI	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
RGL3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
RPH3A	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SDHAP3	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SEMA4G	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SLC35F4	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
SNORA59B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SNORD12B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SNORD15B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
SNORD83A	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
STEAP1B	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
TBX6	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
TEKT5	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
TEX22	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
THSD4	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
TMEM139	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
TPTE2P1	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
WNT3	-0,77398	0,386988	-1,14808	0,29887	0,424685	-6,71886
ZNF750	0,773976	0,386988	1,14808	0,29887	0,424685	-6,71886
BRCA1	-0,50095	4,289905	-1,14709	0,299247	0,424685	-6,71994
CRYL1	-0,24718	5,878435	-1,14706	0,299258	0,424685	-6,71998
NOTCH4	0,756487	1,980695	1,146886	0,299323	0,424685	-6,72016
IQCA1	0,756487	1,980695	1,146886	0,299323	0,424685	-6,72016
PGAM5	-0,24943	6,038294	-1,14681	0,299351	0,424685	-6,72024

NAPSB	-0,52362	4,361547	-1,14613	0,29961	0,424685	-6,72098
ARL5B	0,199309	6,896165	1,144458	0,300246	0,424685	-6,7228
PRR12	-0,84948	3,908476	-1,14406	0,300396	0,424685	-6,72323
PALB2	0,253624	6,222503	1,143883	0,300464	0,424685	-6,72343
RANBP6	0,161212	7,568812	1,143866	0,300471	0,424685	-6,72345
HOPX	0,334247	7,362414	1,143778	0,300504	0,424685	-6,72354
MAPK14	-0,22064	7,959165	-1,14341	0,300645	0,424685	-6,72394
CST7	-1,0456	6,929171	-1,14299	0,300804	0,424685	-6,7244
SERPINE2	-1,15935	2,748939	-1,14282	0,30087	0,424685	-6,72458
PTAR1	-0,17645	7,735662	-1,14281	0,300874	0,424685	-6,7246
TOPORS	-0,2242	8,497917	-1,14272	0,300906	0,424685	-6,72469
ADSSL1	-0,98251	1,42704	-1,14262	0,300947	0,424685	-6,7248
CAND2	-0,66667	0,666667	-1,14184	0,301244	0,424685	-6,72565
ABO	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ACOT12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
AMPD1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ANKRD20A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
AP1M2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ARHGAP8	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ARL14	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ASPHD1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ASPN	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ATP2C2	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
AVPR1A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
B3GALT1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
B4GALNT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
BCRP3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
BOC	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
C10orf90	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
C10orf99	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
C17orf98	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
C1QTNF9	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
C3orf67	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
C9orf50	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CABP1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CAPN8	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CCDC63	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CCDC80	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
CELA2A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CHRM5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CILP2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CNTFR	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CNTN1	-0,66667	0,333333	-1,14184	0,301244	0,424685	-6,72565
COL4A6	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CSN1S2AP	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CXCR1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CXorf65	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CYGB	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CYP2G1P	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CYP3A7	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
CYP4Z1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DDC	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565

DEFB124	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DLGAP1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DMC1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DMGDH	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DNMBP-AS	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
DPPA3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
EGFL8	-0,66667	0,333333	-1,14184	0,301244	0,424685	-6,72565
ELF5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ENDOU	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ESYT3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FAM170A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FAM180B	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FBXW10	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FCN3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FER1L6	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FGF22	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FGF23	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FHOD3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FKBP10	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FMO2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FMR1NB	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FOXD4L1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FOXE3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
FUT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GABRA5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GAS2L2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GLT6D1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GLT8D2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GOT1L1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GPR158	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
GRIK4	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
HCG25	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
HES5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
HMGB3P1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
HOXA5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
HOXC10	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
IGSF9	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
IL17RE	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KCNJ12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KCTD19	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KIAA0087	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KIAA1211	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KLHL33	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
KRT74	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LAMA4	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
LCN15	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LHX5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LINC00113	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LINC00271	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LINC00475	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LIPI	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
LRIT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565

LUM	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
MASP1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
MIR3926-1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
MYADML	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
MYH14	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
MYLK3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
NMNAT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
NOS1AP	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
NPR1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OCLM	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR10A2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR11A1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR11I	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR51B5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR51L1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OR56B1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
OTP	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PALM2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PAM16	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
PHACTR3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PKDREJ	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PLA2G12B	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PNCK	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PPM1E	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PPP1R36	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PRAMEF1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PRAMEF12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PRR19	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PRSS41	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PRSS42	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
PTPRZ1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RASL10A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RASL10B	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RHBDL2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RIMS4	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RIT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RLBP1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RNASE13	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RTN2	-0,66667	0,333333	-1,14184	0,301244	0,424685	-6,72565
SALL1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SCN10A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SCN7A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SEC14L3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SEMA5B	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SERPINB5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SHROOM4	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SLC10A5	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
SLC13A5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SLC22A11	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SLC22A25	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SLC30A3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SLC35D3	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565

SLC6A5	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SNORA14A	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SNORA70C	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SNORA70F	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SNORD116	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SNORD70	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SOHLH1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SP8	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SPATA12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SPZ1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SULT1A2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
SYCE1L	-0,66667	0,333333	-1,14184	0,301244	0,424685	-6,72565
SYT2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TAS2R19	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TAT	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TCF24	0,666667	0,666667	1,141838	0,301244	0,424685	-6,72565
TCHHL1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TEK	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TEX19	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TLR8-AS1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TMEM130	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TMEM196	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TMEM88	-0,66667	0,333333	-1,14184	0,301244	0,424685	-6,72565
TMPRSS11I	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TNFSF18	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TNP2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TPSB2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TSPAN16	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
TTLL9	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
UGT2A1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
UGT3A2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
VIT	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
VRTN	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
VWC2L	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
WFDC12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
WT1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
WWC1	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ZBTB7C	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ZCCHC12	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ZNF491	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ZNF749	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
ZP2	0,666667	0,333333	1,141838	0,301244	0,424685	-6,72565
RWDD1	0,152581	8,316793	1,141414	0,301406	0,424685	-6,72611
TOR1AIP2	0,152501	8,08557	1,141022	0,301555	0,424685	-6,72653
ZNF510	-0,20215	4,468836	-1,14101	0,30156	0,424685	-6,72655
ZCCHC10	-0,155	7,698768	-1,14048	0,301764	0,424685	-6,72713
VASH2	1,18144	1,452374	1,140263	0,301846	0,424685	-6,72736
NCOA1	0,207705	8,185025	1,139715	0,302055	0,424685	-6,72795
ZNF699	-1	1,028321	-1,13881	0,302401	0,424685	-6,72893
PLAGL2	0,329526	5,806066	1,138609	0,302478	0,424685	-6,72915
TDP2	-0,15719	7,308489	-1,13789	0,302754	0,424685	-6,72993
UBP1	0,159512	8,037824	1,13787	0,302762	0,424685	-6,72995

PART1	1,107309	1,220321	1,137807	0,302786	0,424685	-6,73002
RHBDD1	-0,22911	5,64618	-1,13703	0,303082	0,424685	-6,73086
MGAT4B	-0,1917	7,804343	-1,13693	0,303121	0,424685	-6,73097
KPNA3	-0,21348	7,551473	-1,13686	0,30315	0,424685	-6,73105
MTMR10	0,284303	5,898859	1,136624	0,30324	0,424685	-6,7313
ADNP	0,205539	7,836838	1,136322	0,303356	0,424685	-6,73163
ASPH	-0,33402	7,116224	-1,13603	0,303468	0,424685	-6,73194
DDX19A	0,257835	6,785429	1,135859	0,303533	0,424685	-6,73213
MED12	-0,45183	4,857519	-1,13543	0,303697	0,424685	-6,73259
VEPH1	1,130772	1,232053	1,13541	0,303706	0,424685	-6,73261
LRRC40	-0,20514	6,585511	-1,13515	0,303806	0,424685	-6,7329
CHIC2	0,272336	6,042136	1,133959	0,304264	0,424685	-6,73418
SERGEF	0,331191	4,544165	1,133932	0,304274	0,424685	-6,73421
CECR2	-0,79744	1,839362	-1,13378	0,304333	0,424685	-6,73438
ST6GALNAC	0,707419	2,7536	1,133217	0,30455	0,424685	-6,73499
TRPC4AP	-0,20066	6,184798	-1,13259	0,304791	0,424685	-6,73566
CCDC130	0,269183	7,159887	1,132543	0,30481	0,424685	-6,73571
MECOM	1,421011	2,346136	1,132195	0,304944	0,424685	-6,73609
ZNF711	-0,54795	3,209761	-1,13195	0,305037	0,424685	-6,73635
TRIM59	0,191188	6,792795	1,131745	0,305117	0,424685	-6,73658
ZNF449	0,218855	5,093189	1,131335	0,305276	0,424685	-6,73702
NT5DC2	-1,12086	2,16288	-1,13071	0,305517	0,424685	-6,73769
SLC25A45	0,348749	5,01979	1,12883	0,306244	0,424685	-6,73972
SOX12	-0,86015	4,139836	-1,12821	0,306482	0,424685	-6,74038
ACOT6	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ADAMTS16	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ADRA1D	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ALDOB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
AMIGO3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ANKS4B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ANO2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ANP32AP1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
AOX1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
APOA2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
AQP11	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ARGFXP2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ARHGEF38	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ARTN	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ASAH2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ASB18	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ATP6V1B1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
AXDND1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
BBOX1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
BCAM	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
BMPER	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
C12orf56	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
C14orf39	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
C17orf102	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
C21orf62	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CACNA1F	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CALY	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CCDC140	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074

CCDC89	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CCL18	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CDH15	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CDH5	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CLDN1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CLGN	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CLIC6	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CNTN3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CNTNAP1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CORO6	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CPAMD8	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CRB3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CRP	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CTAG2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CTRL	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CYP3A4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
CYP7B1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
DBF4B	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
DDX4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
DEPDC1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
DEPTOR	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
DERL3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
DIAPH3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
DLL3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
DNAI1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
DPF1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
DYNLRB2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ECM1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
EN2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
EPHX1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ERG	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FAM156A	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FAM160A1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FAM166B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FAM69B	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FAM86HP	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FAM9B	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FBXL2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FBXL8	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FGF11	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FGF13	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FGFR3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FJX1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FLRT1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
FSTL3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
FXYP1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GALNT9	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GNG8	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GPR1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GPR150	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
GRB7	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GRIA1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074

GRM6	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GUCA1B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
GUCY2F	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
GUSBP5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
GYPE	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
HAR1B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
HCG22	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
HIST1H2AB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
HS3ST2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
HSP90AA6I	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
HTRA3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
IDI2-AS1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
IL17C	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
IL17F	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
INE1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
IQSEC3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
KCNQ2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
KCNT2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
KLK2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
LAMP5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
LINC00240	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
LINC00326	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
LOXL4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
LPIN3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
LPO	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MAB21L3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MAMSTR	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MAOB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MC2R	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MEGF11	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
MIR15B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MIR4518	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
MIR644A	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MMP1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MMP20	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
MRVI1-AS1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
NME2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
NME9	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
NPPB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
NRN1L	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
NTRK1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OLAH	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ONECUT3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR14A16	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR2B6	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR2J2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR4K2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR51D1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
OR6C75	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PAPOLB	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PCYT1B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PDCD1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074

PDPN	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PDZRN4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PHYHD1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PIGZ	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PIH1D2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PLA2G4D	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PLSCR5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PNMA6A	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
POF1B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PPL	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PRICKLE3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
PROK1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PSG2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
PTPRR	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
RADIL	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
RASIP1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
RDM1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ROBO4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SAMD15	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SAP25	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SCAMP5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SCG3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SERPINB10	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SFRP1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SFTA3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SFTPB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SI	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SLC35F3	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SLC38A4	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SMOX	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SMPDL3B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SMTN	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SNCAIP	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SNORD116	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SNORD116	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SNORD72	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SNX15	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SORCS2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SOX15	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SPDYE3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SRRM5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
SSPO	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
STEAP1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SULF1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
SYCE3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TACR1	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
TECTB	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TLX3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TMC3	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TMC5	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
TRAM1L1	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TRIML2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074

TUBA4B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
TUBB2B	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
UTS2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
WDR86	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
XAB2	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ZDHHC15	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ZFPM2	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ZGPAT	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ZNF208	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ZNF385C	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ZNF492	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ZNF560	0,528321	0,26416	1,127888	0,306609	0,424685	-6,74074
ZNF670	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
ZNF835	-0,52832	0,26416	-1,12789	0,306609	0,424685	-6,74074
CDC123	0,193519	7,03905	1,12778	0,306651	0,424702	-6,74085
RAB11A	-0,19918	8,437518	-1,12737	0,306808	0,424879	-6,74129
FAM19A2	0,6219	4,248877	1,127292	0,30684	0,424881	-6,74138
ZNF844	0,335171	4,652695	1,12669	0,307073	0,425152	-6,74203
BCL2L11	-0,43179	7,10588	-1,12663	0,307096	0,425152	-6,74209
OTUD6B	0,271022	6,433163	1,126473	0,307157	0,425195	-6,74226
ZNF668	-1,13077	1,672696	-1,12626	0,307239	0,425267	-6,74249
ZMAT3	-0,1726	7,475603	-1,12559	0,307502	0,425589	-6,74322
TMEM185A	0,282666	3,291737	1,125366	0,307587	0,425665	-6,74345
ZNF470	0,250969	3,817756	1,124309	0,307998	0,426086	-6,74459
MMP8	-1,22602	1,386988	-1,12425	0,308019	0,426086	-6,74465
RAB4A	-0,14861	6,854572	-1,12414	0,308062	0,426086	-6,74476
B3GALNT1	-0,69895	2,513428	-1,12354	0,308298	0,426086	-6,74542
PSMB1	-0,18173	9,213535	-1,12236	0,308758	0,426086	-6,74669
CBL	-0,17111	8,480544	-1,12223	0,308806	0,426086	-6,74682
NUCB2	-0,1562	8,867905	-1,12206	0,308874	0,426086	-6,747
CDKL5	-1,28959	3,152647	-1,12146	0,309109	0,426086	-6,74765
SP140	0,175095	7,882487	1,12079	0,309369	0,426086	-6,74837
SMAD6	0,421877	4,642287	1,12032	0,309553	0,426086	-6,74887
CKAP5	-0,24161	6,729141	-1,12012	0,309632	0,426086	-6,74909
ZNF33A	0,171369	7,88593	1,119482	0,309881	0,426086	-6,74977
AGK	-0,66914	5,418693	-1,11921	0,309986	0,426086	-6,75006
MEX3A	0,9455	2,270189	1,119064	0,310044	0,426086	-6,75022
EIF1B	0,20087	7,510362	1,118094	0,310424	0,426086	-6,75126
TRADD	0,267151	5,956898	1,118052	0,31044	0,426086	-6,75131
EI24	0,18496	8,278483	1,11745	0,310676	0,426086	-6,75195
SMARCA1	-0,36437	2,786779	-1,11671	0,310966	0,426086	-6,75274
NDE1	0,20642	6,596586	1,116506	0,311046	0,426086	-6,75296
PRTG	0,789745	3,030503	1,116376	0,311097	0,426086	-6,7531
DPP9	0,226497	6,731058	1,116311	0,311123	0,426086	-6,75317
SNAPC5	-1,20235	5,095445	-1,11575	0,311345	0,426086	-6,75377
TCEA3	0,550194	4,62186	1,115475	0,311451	0,426086	-6,75406
NUP62	-0,1902	8,051457	-1,11492	0,311668	0,426086	-6,75466
UBE2E3	-0,56708	6,013791	-1,11484	0,3117	0,426086	-6,75474
OR7A5	0,935785	0,996213	1,114768	0,311729	0,426086	-6,75482
UBR3	0,158595	7,092956	1,114415	0,311868	0,426086	-6,7552
NT5DC3	-1	2,802297	-1,11417	0,311963	0,426086	-6,75546
RABEPK	-0,68696	4,899628	-1,11402	0,312021	0,426086	-6,75562

SLC25A37	-0,28478	7,261275	-1,11357	0,312198	0,426086	-6,7561
LIPE	0,463014	3,418921	1,113057	0,312402	0,426086	-6,75665
PIGU	-0,75551	3,800019	-1,11305	0,312406	0,426086	-6,75666
BTBD16	0,773976	1,053655	1,113028	0,312413	0,426086	-6,75668
CHIT1	0,773976	1,053655	1,113028	0,312413	0,426086	-6,75668
CLEC1B	0,773976	1,053655	1,113028	0,312413	0,426086	-6,75668
RFTN2	0,773976	1,053655	1,113028	0,312413	0,426086	-6,75668
ECSIT	-0,43388	4,837819	-1,1121	0,312778	0,426086	-6,75767
CCNB3	1,107309	1,822773	1,11103	0,313201	0,426086	-6,75881
CNOT6	-0,15143	7,501123	-1,11091	0,31325	0,426086	-6,75895
MTIF2	0,158955	7,83297	1,110832	0,313279	0,426086	-6,75903
IRS2	-0,19019	7,945737	-1,11045	0,313428	0,426086	-6,75943
AARS	-0,3476	7,21971	-1,10935	0,313865	0,426086	-6,76061
ZNF782	0,383491	3,460864	1,109319	0,313876	0,426086	-6,76064
SS18L2	-0,20639	7,099062	-1,10923	0,31391	0,426086	-6,76073
TXNL4B	0,306497	4,171676	1,109123	0,313954	0,426086	-6,76085
PDPK1	-0,16163	8,057046	-1,1091	0,313963	0,426086	-6,76087
TMEM170A	0,185147	7,514719	1,107956	0,314416	0,426086	-6,76209
CENPBD1	-0,53717	4,178033	-1,10754	0,31458	0,426086	-6,76254
SLC16A1	-0,17696	6,429317	-1,10752	0,314589	0,426086	-6,76256
ARID2	0,156453	7,620988	1,107512	0,314591	0,426086	-6,76257
LRRC34	0,894833	1,911522	1,106804	0,314872	0,426086	-6,76332
PNP	-0,25995	5,926206	-1,1067	0,314913	0,426086	-6,76343
ZDHHC21	-0,23474	6,448569	-1,10617	0,315124	0,426086	-6,764
RRP7A	0,196173	5,761155	1,105721	0,315302	0,426086	-6,76447
ASNSD1	0,179473	7,441658	1,105504	0,315388	0,426086	-6,7647
WWP2	-0,21797	7,270183	-1,10499	0,31559	0,426086	-6,76525
SMAP1	-0,15898	8,139331	-1,10466	0,315722	0,426086	-6,7656
HBEGF	-0,23194	6,404935	-1,10428	0,315875	0,426086	-6,76601
RPL23AP55	-1,04309	1,188214	-1,10426	0,315883	0,426086	-6,76603
JARID2	-0,14794	8,490317	-1,10415	0,315927	0,426086	-6,76615
RHBDD3	-0,83336	2,793107	-1,1037	0,316106	0,426086	-6,76663
GALNT3	0,273788	5,04325	1,103136	0,316329	0,426086	-6,76722
MRPS17	0,561342	4,99129	1,101708	0,316897	0,426086	-6,76874
TRIM2	0,579344	4,089965	1,101678	0,316909	0,426086	-6,76877
FANCB	-1,28267	2,963261	-1,10158	0,316949	0,426086	-6,76888
CS	-0,17966	6,830512	-1,10096	0,317197	0,426086	-6,76954
MAT2B	-0,19167	9,259125	-1,1	0,317578	0,426086	-6,77055
ZBED2	0,85568	2,346136	1,099651	0,317718	0,426086	-6,77092
NNT	-0,27206	7,35912	-1,09929	0,317863	0,426086	-6,77131
MTMR2	0,367474	5,033505	1,098974	0,317988	0,426086	-6,77164
MRPS30	0,214266	7,361347	1,098952	0,317997	0,426086	-6,77166
RPS6KB1	0,19192	7,413883	1,098875	0,318028	0,426086	-6,77174
ARHGAP26	-0,21086	8,114398	-1,09863	0,318127	0,426086	-6,77201
GPR35	-0,90475	1,785708	-1,09831	0,318255	0,426086	-6,77234
CES2	0,320667	6,133232	1,097954	0,318397	0,426086	-6,77272
RDH13	-0,63103	4,610238	-1,09775	0,318479	0,426086	-6,77294
DPY19L3	-1,57782	4,086173	-1,09761	0,318535	0,426086	-6,77309
PFKP	-0,60854	6,483991	-1,09755	0,318559	0,426086	-6,77315
PIGN	-0,22944	6,421502	-1,09653	0,318966	0,426086	-6,77423
MATN2	1,28875	1,839362	1,096282	0,319066	0,426086	-6,77449
PCBP1-AS1	0,355137	5,752633	1,095427	0,319409	0,426086	-6,7754

BICC1	-0,96896	1,484482	-1,09537	0,319433	0,426086	-6,77546
PARM1	0,631028	3,132585	1,094853	0,319639	0,426086	-6,776
DZANK1	-1,13077	2,834505	-1,09441	0,319818	0,426086	-6,77647
WDTC1	0,211557	5,594688	1,094389	0,319826	0,426086	-6,77649
SCOC	0,162682	7,634342	1,094131	0,319929	0,426086	-6,77677
ARHGAP6	1,384001	2,522618	1,09407	0,319954	0,426086	-6,77683
GNB1	-0,1435	9,759862	-1,09372	0,320094	0,426086	-6,7772
FAM207A	-1,29827	3,21595	-1,0928	0,320465	0,426086	-6,77817
PSMG3	0,224873	6,762267	1,091759	0,320883	0,426086	-6,77927
TCTN1	-0,70231	3,748583	-1,09139	0,321032	0,426086	-6,77966
CCDC57	0,635096	4,222296	1,090948	0,32121	0,426086	-6,78013
SLC35A4	-0,39897	4,970068	-1,0909	0,321228	0,426086	-6,78017
TRRAP	0,247492	6,511257	1,090363	0,321446	0,426086	-6,78074
GTF2E2	-0,1775	6,687207	-1,0902	0,321512	0,426086	-6,78092
EAPP	-0,15192	7,970114	-1,08993	0,32162	0,426086	-6,7812
PPIB	-0,25729	7,087854	-1,08888	0,322047	0,426086	-6,78231
GRB14	0,918296	1,125815	1,088873	0,322048	0,426086	-6,78232
SLC12A8	0,918296	1,125815	1,088873	0,322048	0,426086	-6,78232
TMEM150C	0,918296	1,125815	1,088873	0,322048	0,426086	-6,78232
DDX10	0,25883	6,980441	1,088652	0,322137	0,426086	-6,78255
B3GAT3	-1,36765	3,484118	-1,08859	0,322163	0,426086	-6,78262
SLC30A7	-0,21818	7,855939	-1,08824	0,322305	0,426086	-6,78299
ERAP2	0,2578	6,708618	1,088174	0,32233	0,426086	-6,78305
UBL3	-0,14862	8,876643	-1,08816	0,322338	0,426086	-6,78307
HMGNA4	0,329501	4,490511	1,087122	0,322756	0,426086	-6,78416
JTB	0,241911	7,557168	1,086799	0,322887	0,426086	-6,7845
CLDND2	-0,66667	1,194988	-1,08614	0,323155	0,426086	-6,7852
SESTD1	-0,21427	6,510968	-1,08611	0,323165	0,426086	-6,78522
07-set	0,152512	9,882474	1,085933	0,323237	0,426086	-6,78541
PRDM15	0,658921	4,604712	1,085786	0,323297	0,426086	-6,78556
GSTZ1	0,313076	5,550876	1,08572	0,323324	0,426086	-6,78563
MSL3P1	-1,16181	1,354881	-1,08572	0,323326	0,426086	-6,78564
ZC3H12B	0,786249	3,126349	1,085635	0,323358	0,426086	-6,78572
TMPO	0,147747	8,709114	1,085505	0,323411	0,426086	-6,78586
AP1G2	-0,74528	4,581057	-1,08549	0,323418	0,426086	-6,78588
U2AF1L4	1,019631	1,37147	1,085076	0,323585	0,426086	-6,78631
ATG5	-0,32303	6,755818	-1,0847	0,323739	0,426086	-6,78671
NOXRED1	1,483737	1,741869	1,083571	0,324196	0,426086	-6,78789
DUSP22	-0,16604	7,68446	-1,08336	0,324279	0,426086	-6,78811
HSPA9	0,162181	8,99183	1,082943	0,324451	0,426086	-6,78855
GTSE1	1,095134	1,742555	1,082813	0,324504	0,426086	-6,78869
EME2	0,696868	3,374039	1,082781	0,324517	0,426086	-6,78872
GNB1L	0,565093	3,992307	1,082658	0,324567	0,426086	-6,78885
SPECC1	-0,34652	6,029927	-1,08265	0,32457	0,426086	-6,78886
NOMO1	-0,53589	2,788695	-1,08256	0,324607	0,426086	-6,78896
MOSPD1	-1,01987	4,252875	-1,08217	0,324764	0,426086	-6,78936
DPY19L2P2	-1,05664	1,528321	-1,08172	0,32495	0,426086	-6,78984
ZG16B	-1,13835	1,625815	-1,08167	0,324968	0,426086	-6,78989
RALY	0,247831	7,047492	1,0813	0,32512	0,426086	-6,79028
LENG8	0,251687	5,71223	1,081225	0,32515	0,426086	-6,79036
MPRIP	0,27104	6,933699	1,080869	0,325295	0,426086	-6,79073
KIR2DL3	-0,86165	0,959148	-1,08084	0,325306	0,426086	-6,79076

FAM20B	-0,16183	7,158896	-1,08025	0,325548	0,426086	-6,79138
HAUS7	-0,51114	4,726517	-1,08005	0,325627	0,426086	-6,79158
MYH9	0,131119	9,982017	1,078892	0,326102	0,426086	-6,7928
CREBBP	0,154168	9,168448	1,077658	0,326606	0,426086	-6,79409
TUFM	0,194575	7,856109	1,077528	0,326659	0,426086	-6,79423
NIPBL	0,14369	10,38584	1,077304	0,326751	0,426086	-6,79447
CIC	-0,43185	5,569509	-1,07698	0,326882	0,426086	-6,7948
ZSCAN5A	-0,90308	4,176516	-1,07695	0,326895	0,426086	-6,79483
GTPBP6	-0,97314	4,458532	-1,07634	0,327146	0,426086	-6,79548
ACSBG1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ACSM1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ACSM2A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ACTC1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ACTN3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ADAM2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ADAMTS17	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ADCY8	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
AK8	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ALDH1A2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
AMOTL1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANKRD20A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANKRD24	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ANKRD35	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
APOBEC4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ARHGAP40	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ARHGEF15	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ARHGEF18	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ARMC4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ASAP3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ASB14	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ASB4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ASMTL-AS1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ATOH8	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
BEND6	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
BRSK2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C1orf100	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
C1orf116	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
C1QTNF1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
C22orf15	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C2orf83	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C7	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
C9orf116	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CA3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CABP7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CAMK2A	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CAPN14	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CCDC13	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CCDC40	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CDC20	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CDH17	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CDHR2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CECR3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958

CES5A	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CFI	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CFTR	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLDN11	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CLDN19	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CLEC2L	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CNGA1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CNNM1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CNTNAP4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
COL17A1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
COL8A1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CRH	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CYP26B1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
CYP39A1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DAND5	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
DCD	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
DMKN	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
DOCK6	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
DOK5	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
DRGX	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ECEL1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ELMO3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ELN	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ENPP7	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
EVC	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FAM172BP	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAM3D	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAM86EP	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FBLN2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FBXO39	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FBXW12	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FDCSP	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FGG	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FITM1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FMOD	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FNDC1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FOXR1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
FUT1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FUT5	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GALNT8	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GATA6	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GLP2R	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GPC3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GPR12	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GPRC5C	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GRHL3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GRTP1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GSC	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GSG1L	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
GTF2IRD2P	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
HBD	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HEY2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958

HMGCLL1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
HMGCS2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
HNF1A	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
HRNR	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
HTR5A	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
IFNA13	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
IL11	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
IL23R	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ISM2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
KCNC3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KLC3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
KLF15	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
KRTAP19-4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
KRTAP5-9	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LARP6	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LDLRAD1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LGALS9B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LHFPL5	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LIF	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LINC00265	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LINC00574	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
LRRC24	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LSM12	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LTK	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MADCAM1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MAGEA9B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MAGEB10	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MAGEB16	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MC5R	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MEGF10	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MEP1B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
METTL24	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MIR374B	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MIR601	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MIXL1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MKRN3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MND1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MPP4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MYBPC2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MYBPHL	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MYH1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
MYOZ2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NAPSA	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NBEAP1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NBPF3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NDRG4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NNAT	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NOTO	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NOXA1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NT5C1B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NTF3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
NXPH2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958

OAZ3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
OPALIN	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
OR2M4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR51E1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
OR52N2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
OR9Q2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
OTOA	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OXER1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PACSIN3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PALM	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PCDHGA5	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PCGF2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PCSK1N	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PGC	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PHF21B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PHLDA3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PHYHIPL	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PLAC4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PON1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
POTEKP	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PP2D1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PPEF1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PRAME	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PRDM16	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PRPH2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PRRG2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PRSS27	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PRTFDC1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PTGDS	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
PTPN21	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PTPRS	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PTTG2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PYY2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
RAB17	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
RAB43	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RFX8	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RGPD2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RND2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
RPSAP52	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RRN3P2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RSPO4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
S100A14	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
S100A5	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SATL1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SBSN	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SCNN1A	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SDR9C7	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SFRP5	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SHD	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC15A5	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC17A3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SLC22A13	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958

SLC22A24	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SLC24A2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SLC2A10	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC6A2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SLC7A2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC9A4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SLPI	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SNORA28	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNORA2A	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNORD94	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SNORD98	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SOHLH2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SOST	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SOX2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SPAG6	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SPARCL1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SPATC1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SPC24	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SPDEF	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SPOCK3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SPRY4	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
STON2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SULT6B1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SUSD5	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SYT10	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
SYT3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TACR3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TAL2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TBR1	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TCP10L	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TECTA	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TFAP2B	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
THAP10	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TINAG	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TM4SF20	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMCO5B	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TMEM110-H	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM132A	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM240	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TMEM56-R'	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TMPRSS5	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMPRSS6	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TNFAIP8L3	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TNNT2	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TRIM60	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TSNAXIP1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TSSK4	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
TUBB4A	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TUSC3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
VWA2	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
WBP1	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958
WDR62	-0,333333	0,166667	-1,07603	0,327273	0,426086	-6,7958

WDR72	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
WISP3	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
WNT9A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZC3HAV1L	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZNF23	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ZNF454	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ZNF497	0,333333	0,166667	1,076026	0,327273	0,426086	-6,7958
ZBP2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ABCC6	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ACTN2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ADAMTS20	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
AKR1C1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANGPTL1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANKRD1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANKRD7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANO4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ANO7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ARHGEF33	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ATP7B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
B3GNT8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BAIAP2L1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BAMBI	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BDNF	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BEX1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BFSP2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BIRC8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BPESC1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
BTC	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C11orf87	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C17orf107	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
C6orf223	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CACNA2D3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CALML4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CARD17	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CARNS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CBLN2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CBWD6	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CCDC158	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CCL17	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CDH10	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CDH18	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CDT1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CEACAM19	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CETN4P	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CHRNE	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CIB2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLCA3P	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLDN8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLEC4C	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLEC4F	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CLIP3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
COX7B2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958

CPA6	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CPS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CRHBP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CRIP3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CRYM-AS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CYP4X1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
CYR1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DAOA	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DCST1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DDIT4L	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DDX11L2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DEFB127	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DGCR5	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DGCR9	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DGKK	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DIABLO	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DIRAS3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DMRTC2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DNAJC22	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DNLZ	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DNM1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DNMT3B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DRD4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DSG4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DSPP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
DYRK3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
EBF4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
EGFR	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
EPHA3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ETNK2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
EXTL1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
F9	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAM72B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAM72D	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAM86C1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FAT1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FMO6P	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FOXG1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FRRS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
FSBP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GABRD	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GALNTL5	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GALNTL6	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GLRA2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GMNC	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GNA14	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GNAT3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GNB3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GPC1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GPX8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GRIN2D	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GSTA1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958

GSTA4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
GYPB	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HCN2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HIST1H2AM	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HIST1H2BK	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HIST1H4D	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HJURP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HLA-DPB2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HOXD1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HS3ST3A1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
HSPG2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
IFNA5	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
IL17RB	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
JSRP1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KANK3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KCNA4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KCNIP2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KCNK1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KIF26A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KRT39	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
KRT7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LAMB3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LGR5	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LHX8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LINC00309	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LINC00488	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LMX1A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
LRIT3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MDH1B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MELK	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MESP1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MIR570	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MMP13	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MT3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MYCN	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MYH7B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MYH8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
MYRIP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NAT14	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NCF1B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NDP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NEURL2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NEURL4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NLGN4X	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NOMO2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NRSN2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NTN5	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NUDT8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
NXN	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OBSL1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR2AT4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958

OR2L3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR2M3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR2T10	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR51A4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR5H1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR6C6	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OR6N2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
OTX2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PABPC4L	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PAGE2B	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PCDH12	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PCDH8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PDLIM4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PDZD9	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PITX2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PIWIL3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PLCH1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PNPLA1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PODN	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
POMZP3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PPM1J	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PPP1R3G	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PRDM7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PROM1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PROX2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PRRT4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PRSS21	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PTCRA	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
PTPN3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RAC3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RALYL	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RCN3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RNF17	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RNF31	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RPS6KL1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
RTKN	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SALL3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SARDH	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SCARNA18	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SERP2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SHISA8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SKA1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC10A4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC12A3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC16A11	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC16A14	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC2A12	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC45A1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC6A15	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC6A8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC9A2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLC9A7P1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958

SLCO6A1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLIT1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SLITRK1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNAI2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNORD36C	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNORD4A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SNX7	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SRRM4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SSR4P1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ST6GAL2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ST7-AS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
STAP2	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
STRC	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TCF7L1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TEX12	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TGM1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TIAF1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TIGD4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TK1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TLCD1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM125	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM136	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM200C	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM44	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMEM63C	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TMOD4	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TNFRSF19	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TPD52L3	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TREML1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TRH	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TRIM45	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TSKS	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TSLP	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
TXNDC8	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
UBE2NL	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
UFSP1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
VPS37D	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZBTB47	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZC3H11A	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZNF334	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZNF503-AS1	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
ZNF517	-0,33333	0,166667	-1,07603	0,327273	0,426086	-6,7958
SSR2	0,165789	8,73136	1,075707	0,327404	0,426216	-6,79614
SRCAP	-0,5615	3,450015	-1,07529	0,327576	0,4264	-6,79657
TMEM155	-0,60245	1,829547	-1,07504	0,327678	0,426494	-6,79683
STRADB	-0,74018	4,029185	-1,07449	0,327903	0,426748	-6,79741
SMCHD1	0,141916	10,78623	1,07439	0,327944	0,426762	-6,79751
HIST3H2A	-0,34855	4,037179	-1,07353	0,328298	0,427183	-6,79841
MRPL54	-0,14954	5,696123	-1,07302	0,328506	0,427414	-6,79894
SNX1	-0,14439	9,002571	-1,07294	0,328541	0,42742	-6,79903
AFAP1L2	1,407464	2,006029	1,071895	0,328969	0,427938	-6,80012
DGAT2	0,684156	3,03435	1,071804	0,329006	0,427947	-6,80021

CHCHD1	-0,22382	6,616767	-1,07036	0,329599	0,428679	-6,80171
ASCC2	-0,25919	5,678209	-1,07014	0,329692	0,42876	-6,80195
STAT6	-0,24525	8,790715	-1,06983	0,329821	0,428888	-6,80227
TMSB4X	-0,14188	11,2876	-1,06957	0,329925	0,428984	-6,80254
ZNF540	0,605248	3,035848	1,06931	0,330033	0,429086	-6,80281
EDIL3	-0,89483	1,383201	-1,06794	0,330601	0,429744	-6,80424
FHDC1	-0,89483	1,383201	-1,06794	0,330601	0,429744	-6,80424
MTF2	0,161076	8,282914	1,06753	0,330768	0,429923	-6,80466
PDHX	-0,24408	6,126132	-1,06602	0,331392	0,430693	-6,80623
ISOC1	-0,27223	6,83182	-1,06586	0,331457	0,430739	-6,8064
GRIPAP1	0,140185	7,370418	1,065497	0,331609	0,43088	-6,80678
INF2	-1,24312	3,306653	-1,06546	0,331626	0,43088	-6,80682
GTF2F2	-0,21865	7,094338	-1,06514	0,331759	0,431012	-6,80715
WASL	0,288794	6,365426	1,064549	0,332002	0,431264	-6,80776
SLC15A4	-0,1547	8,002055	-1,06452	0,332014	0,431264	-6,80779
ACSL5	-0,19349	6,445189	-1,06438	0,332072	0,4313	-6,80794
MTFMT	-0,27907	5,177559	-1,06407	0,3322	0,431397	-6,80826
SPATA20	-0,66667	1,63563	-1,06405	0,332208	0,431397	-6,80828
ZNF155	0,886485	2,979019	1,063851	0,332291	0,431466	-6,80849
SEC16A	0,178561	7,123081	1,063182	0,332569	0,431786	-6,80918
DEPDC4	0,968964	1,346136	1,062767	0,332741	0,431891	-6,80961
GLS2	0,968964	1,346136	1,062767	0,332741	0,431891	-6,80961
OPRL1	0,968964	1,346136	1,062767	0,332741	0,431891	-6,80961
IRF2	0,157797	8,734694	1,062665	0,332783	0,431906	-6,80972
UQCRCF1	-0,19131	7,339484	-1,06252	0,332842	0,431942	-6,80986
SSNA1	-0,57726	4,512551	-1,06239	0,332898	0,431975	-6,81
UBE3B	0,193172	7,117356	1,061885	0,333107	0,432208	-6,81053
MAPK9	-0,21631	7,00686	-1,06153	0,333254	0,432358	-6,81089
CXorf56	-0,5525	6,049594	-1,06141	0,333303	0,432383	-6,81102
CYTH2	-0,6048	4,82884	-1,06097	0,333489	0,432565	-6,81148
PRR3	-1,48398	3,9602	-1,06093	0,333505	0,432565	-6,81152
STK3	0,315861	6,178795	1,06032	0,333758	0,432854	-6,81215
DLST	-0,37454	4,1512	-1,06015	0,333829	0,432906	-6,81232
KTN1	-0,13474	10,50385	-1,05986	0,333952	0,433025	-6,81263
SRPK2	0,139275	9,108576	1,059439	0,334125	0,433211	-6,81306
PHF2	0,143665	7,822909	1,059254	0,334203	0,433271	-6,81325
CRELD1	0,566185	3,938834	1,05755	0,334913	0,434153	-6,81502
KDM1A	0,185336	6,475606	1,05728	0,335026	0,434259	-6,81529
ERLEC1	-0,2579	7,239639	-1,05686	0,335202	0,434448	-6,81573
STXBP2	-0,48983	3,25237	-1,05594	0,335588	0,434907	-6,81668
TPGS2	-0,44544	6,106442	-1,05513	0,335924	0,435303	-6,81751
ERCC6	0,223187	6,347793	1,0548	0,336063	0,435443	-6,81786
AKR7A2	-0,53211	5,19617	-1,05465	0,336126	0,435484	-6,81801
DNAJB1	0,195055	8,904333	1,05425	0,336293	0,435662	-6,81842
JAKMIP2	0,241627	6,416395	1,054071	0,336368	0,435719	-6,81861
PQBP1	-0,34956	5,504354	-1,05375	0,336503	0,435818	-6,81894
NARF	0,579754	5,877796	1,05371	0,336519	0,435818	-6,81898
MNT	-0,2399	6,245289	-1,05367	0,336537	0,435818	-6,81902
HCCS	0,13553	7,118036	1,052792	0,336905	0,436254	-6,81993
RAB6A	-0,18823	8,289881	-1,05248	0,337034	0,436382	-6,82025
GHITM	-0,16347	9,222004	-1,05239	0,337071	0,43639	-6,82034
LITAF	-0,16316	9,746099	-1,05023	0,33798	0,436873	-6,82257

EPS8L1	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
SPTLC3	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
AGAP9	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
AMDHD1	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
ARHGAP20	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
BBS5	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
CAP2	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
CSRP2	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
FAM9C	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
HIST1H4E	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
HIST2H2AB	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
IQCC	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
KCNIP4	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
NRAP	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
PLSCR4	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
PRX	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
RARB	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
SLC17A1	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
SLC47A1	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
TGFB3	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
TTK	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
ZNF286B	0,528321	0,597494	1,049742	0,338186	0,436873	-6,82307
ZNF418	-0,52832	0,597494	-1,04974	0,338186	0,436873	-6,82307
ARMCX6	-0,63563	1,317815	-1,04964	0,33823	0,43689	-6,82318
AUH	-0,40135	5,678199	-1,04944	0,338312	0,436955	-6,82338
SRPRB	-0,31256	7,352825	-1,04865	0,338645	0,437345	-6,82419
FAM50B	-0,41149	4,111351	-1,04827	0,338807	0,437515	-6,82459
ZNF845	0,517887	4,184695	1,047607	0,339086	0,437835	-6,82526
FAM110B	-1,09759	1,322773	-1,04751	0,339125	0,437845	-6,82536
NPFFR1	0,797439	1,065386	1,045992	0,339768	0,438635	-6,82692
DNAJC11	0,315418	5,449881	1,045766	0,339863	0,438718	-6,82716
CD83	-0,17893	8,143527	-1,04514	0,340128	0,43902	-6,8278
XYLT2	-0,26831	4,980379	-1,04494	0,340212	0,439088	-6,828
DHX8	-0,26794	6,040261	-1,04466	0,340329	0,439199	-6,82829
METRNL	-0,15188	6,919567	-1,0445	0,340397	0,439247	-6,82845
PAPOLA	-0,12776	10,06101	-1,04437	0,340452	0,439278	-6,82858
POLI	0,233077	5,563433	1,044139	0,340551	0,43934	-6,82882
PFDN4	0,212482	7,118839	1,044113	0,340562	0,43934	-6,82885
PRR14L	-0,15529	8,019342	-1,04384	0,340679	0,43945	-6,82913
MPHOSPH5	-0,18664	6,854651	-1,04373	0,340725	0,439469	-6,82924
TKTL1	-0,75434	1,679469	-1,0435	0,340823	0,439556	-6,82948
EPHA2	1,074131	1,39872	1,043286	0,340913	0,439611	-6,8297
METTL2B	0,162712	5,40208	1,04325	0,340928	0,439611	-6,82974
CHEK2	-1,17152	1,854881	-1,04302	0,341027	0,439698	-6,82997
ARL6IP5	-0,13846	10,25437	-1,04277	0,341133	0,439795	-6,83023
FAF1	-0,49648	5,120344	-1,04265	0,341183	0,43982	-6,83035
MTHFD1L	0,288911	4,388229	1,042298	0,341331	0,439971	-6,83071
PIK3R6	-0,78752	2,103523	-1,04184	0,341526	0,440181	-6,83118
COG1	0,351238	5,664853	1,040409	0,342133	0,440924	-6,83264
TPRN	0,732132	3,22772	1,039403	0,342561	0,441435	-6,83367
DPP7	0,186075	6,114618	1,038871	0,342788	0,441661	-6,83422
STK38L	-0,20167	6,88018	-1,03884	0,342799	0,441661	-6,83424

SAR1B	0,157168	7,826456	1,03857	0,342915	0,441733	-6,83452
RRNAD1	-0,18753	3,491197	-1,03857	0,342918	0,441733	-6,83453
CMTM3	-0,14539	6,888608	-1,03849	0,342951	0,441737	-6,83461
RASSF6	0,77199	3,55526	1,03821	0,343069	0,441848	-6,83489
CUL1	-0,13799	7,926468	-1,03776	0,343259	0,442052	-6,83535
ARID1A	0,151178	8,590362	1,037507	0,343369	0,442153	-6,83561
SLC7A1	-0,19974	6,54206	-1,03727	0,34347	0,442243	-6,83585
USF1	-1	1,964106	-1,03675	0,343691	0,442488	-6,83638
ANKS1A	-0,59081	4,566131	-1,03658	0,343762	0,44253	-6,83655
GNAO1	-1,18565	3,095423	-1,03653	0,343786	0,44253	-6,83661
WWC3	0,139387	8,313959	1,036399	0,343841	0,44256	-6,83674
INTS4	-0,46306	5,191902	-1,03579	0,344101	0,442854	-6,83736
TECPR2	0,226677	5,720928	1,034545	0,344633	0,443453	-6,83863
ZNF287	-0,38783	2,79851	-1,03448	0,344659	0,443453	-6,83869
F8A1	-0,91232	1,317815	-1,03441	0,344692	0,443453	-6,83877
OR5AN1	0,912322	1,317815	1,034407	0,344692	0,443453	-6,83877
RAB9B	0,828476	2,188214	1,033731	0,344981	0,443784	-6,83946
ZNF696	-1,13077	3,006029	-1,03343	0,345109	0,443909	-6,83977
ZNF395	-0,17017	8,76522	-1,03317	0,34522	0,444011	-6,84003
ZNF839	0,179186	5,864478	1,033048	0,345273	0,44404	-6,84016
CHPF2	0,210756	6,049938	1,032826	0,345368	0,444121	-6,84038
AARS2	-0,86165	2,066457	-1,03273	0,345409	0,444133	-6,84048
GTF3C3	0,205225	7,129781	1,032076	0,34569	0,444453	-6,84114
KCNAB2	0,164925	7,681044	1,031179	0,346074	0,444908	-6,84206
ALPK2	0,770144	2,710832	1,030705	0,346278	0,44505	-6,84254
WDR36	0,174281	7,102586	1,030676	0,34629	0,44505	-6,84257
STK36	0,28219	6,109001	1,030488	0,346371	0,44505	-6,84276
ARG1	-0,77398	0,915309	-1,03041	0,346405	0,44505	-6,84284
ATP8B1	-0,77398	0,915309	-1,03041	0,346405	0,44505	-6,84284
CPLX1	0,773976	0,915309	1,030409	0,346405	0,44505	-6,84284
UBL5	0,158238	8,498507	1,030408	0,346405	0,44505	-6,84284
SMAGP	-1,05664	2,571415	-1,0301	0,346539	0,44515	-6,84316
STRAP	0,132238	8,505967	1,03008	0,346546	0,44515	-6,84317
RNU5F-1	0,602452	3,182511	1,029716	0,346702	0,44531	-6,84354
ASH2L	-0,24466	5,767706	-1,02934	0,346864	0,445478	-6,84393
SERPINB9	-0,17332	8,097693	-1,02881	0,347092	0,44573	-6,84447
POC5	0,416887	5,122477	1,028245	0,347335	0,446001	-6,84504
PKIA	0,395059	5,978088	1,027747	0,347549	0,446236	-6,84554
BAZ2B	0,141418	8,883253	1,026926	0,347903	0,446649	-6,84638
HHLA3	-0,616	1,415309	-1,02579	0,348394	0,447239	-6,84753
TRDN	1,107309	1,327631	1,025537	0,348502	0,447336	-6,84778
AZI2	0,12604	8,178149	1,024611	0,348902	0,447809	-6,84872
PRPF39	0,190943	7,694514	1,024436	0,348977	0,447865	-6,8489
BET1L	-0,68917	5,621739	-1,02355	0,34936	0,448317	-6,8498
AEBP2	-0,13687	6,829609	-1,02337	0,349437	0,44837	-6,84998
CDS1	-0,51842	4,025614	-1,02331	0,349466	0,44837	-6,85004
BTRC	0,262641	5,816951	1,023231	0,349498	0,448371	-6,85012
APOBEC3G	0,175369	7,776089	1,023133	0,34954	0,448385	-6,85022
PPIH	0,273097	5,545854	1,022804	0,349683	0,448527	-6,85055
PRKCE	-0,52382	5,095524	-1,02252	0,349806	0,448644	-6,85084
DVL2	-0,29848	5,695849	-1,02092	0,350497	0,449489	-6,85245
STX6	-0,15967	7,329976	-1,02063	0,350626	0,449614	-6,85275

TNFAIP6	0,271023	5,608129	1,02027	0,35078	0,449746	-6,85311
PCAT1	0,365682	4,010107	1,020243	0,350792	0,449746	-6,85314
SBF1	0,208389	7,663723	1,019876	0,350951	0,449909	-6,85351
STXBP1	-0,49728	3,022618	-1,01895	0,351353	0,450383	-6,85444
IFIT5	0,173866	7,320791	1,018099	0,351723	0,450817	-6,8553
TCEA2	0,549781	3,738996	1,017861	0,351827	0,450908	-6,85554
DUSP12	0,408769	5,996155	1,017079	0,352167	0,451303	-6,85633
KAT6B	-0,16084	8,034521	-1,01681	0,352285	0,451414	-6,8566
PARS2	-1,2638	1,865382	-1,0166	0,352375	0,451489	-6,85681
GANC	0,260931	5,751252	1,015641	0,352793	0,451983	-6,85778
MTHFD2L	-0,32007	5,777759	-1,0153	0,352944	0,452135	-6,85812
EXOSC3	-0,20586	6,471715	-1,01517	0,352999	0,452165	-6,85825
UBE2Z	-0,16347	9,043428	-1,01507	0,353043	0,45218	-6,85835
CCNB1IP1	0,527546	4,494935	1,01475	0,353181	0,452317	-6,85867
HAUS2	-0,35384	6,344522	-1,01451	0,353286	0,45241	-6,85891
DNAJC4	-0,92436	4,561918	-1,01442	0,353326	0,45242	-6,85901
IMPA1	-0,16	7,013354	-1,01389	0,353557	0,452675	-6,85954
TSC22D3	0,190978	9,371013	1,013481	0,353735	0,452803	-6,85995
PRKACB	0,209693	8,662991	1,013473	0,353739	0,452803	-6,85996
MAST2	-1,05664	2,74294	-1,01341	0,353765	0,452803	-6,86002
UCK1	-0,64215	4,396143	-1,01337	0,353785	0,452803	-6,86006
HELLS	0,152211	6,116509	1,013094	0,353904	0,452914	-6,86034
UBLCP1	0,181493	7,570952	1,01301	0,353941	0,45292	-6,86042
CAPN10	-0,98467	4,147596	-1,01273	0,354064	0,453036	-6,8607
C6orf47	-0,26269	5,735144	-1,01228	0,354259	0,453245	-6,86115
BAP1	-0,39819	5,35271	-1,01042	0,355076	0,454249	-6,86303
SIK3	0,169651	7,048367	1,010194	0,355173	0,454333	-6,86325
AMIGO2	0,180125	6,555905	1,009986	0,355265	0,454408	-6,86346
EPB41L2	-0,16446	7,019983	-1,00988	0,355311	0,454426	-6,86356
SIRT4	-1,09759	1,656106	-1,0096	0,355436	0,454545	-6,86385
RBM19	0,226083	5,63498	1,008697	0,35583	0,45498	-6,86475
VIPR1	-0,88512	2,323844	-1,00867	0,35584	0,45498	-6,86477
TMED8	-0,19134	7,26619	-1,00846	0,355934	0,455058	-6,86498
RNF6	0,192273	7,05689	1,008317	0,355997	0,455089	-6,86513
TFR2	0,610025	2,630772	1,00819	0,356053	0,455089	-6,86526
RCBTB2	0,162106	7,626415	1,008186	0,356054	0,455089	-6,86526
KEAP1	0,145734	6,725312	1,007564	0,356327	0,45538	-6,86588
ATL1	-0,9183	1,459148	-1,00752	0,356347	0,45538	-6,86593
DNAJC2	-0,13156	8,281103	-1,00712	0,356524	0,455526	-6,86633
FAM210A	0,24375	6,655407	1,007054	0,356552	0,455526	-6,86639
RP1	-0,47168	0,76416	-1,00697	0,35659	0,455526	-6,86648
XKR9	-0,47168	0,76416	-1,00697	0,35659	0,455526	-6,86648
CIR1	0,141258	9,466598	1,006251	0,356905	0,455887	-6,8672
DMD	0,269772	4,509432	1,00608	0,35698	0,455906	-6,86737
BIN3	-0,21263	5,597507	-1,00607	0,356984	0,455906	-6,86738
CNN3	-0,76307	4,000864	-1,00545	0,357256	0,456213	-6,868
FRAT1	-0,17833	6,296209	-1,00412	0,357844	0,456914	-6,86933
FAM104A	-0,18868	6,721772	-1,00406	0,35787	0,456914	-6,86939
GGNBP2	0,139675	9,845372	1,003865	0,357956	0,456982	-6,86958
BCAS2	-0,21485	7,058438	-1,00329	0,358209	0,457227	-6,87016
KDM5D	-0,14692	6,25221	-1,00328	0,358212	0,457227	-6,87016
TRIM35	-0,66897	5,64043	-1,00288	0,358389	0,457411	-6,87056

BABAM1	0,132888	6,073669	1,002094	0,358738	0,457815	-6,87135
ZNF579	-1,05664	1,302297	-1,00108	0,359185	0,458345	-6,87236
SPATA2	0,345903	4,175294	1,000444	0,359467	0,458663	-6,87299
GPS1	-0,64644	4,583672	-1,00012	0,359612	0,458807	-6,87332
BBX	0,138007	10,01462	0,999825	0,359741	0,458859	-6,87361
SLC24A3	-0,42101	2,179469	-0,99974	0,35978	0,458859	-6,8737
TMCC2	-0,42101	2,179469	-0,99974	0,35978	0,458859	-6,8737
CBX4	-0,16198	8,343101	-0,99973	0,359783	0,458859	-6,8737
NPLOC4	0,259454	6,317678	0,99874	0,360222	0,459347	-6,87469
ANKRD39	-0,6462	4,038835	-0,99872	0,360231	0,459347	-6,87471
NTHL1	-1,02346	1,285708	-0,99834	0,3604	0,459453	-6,87509
TMEM79	-1,02346	1,285708	-0,99834	0,3604	0,459453	-6,87509
TMEM41A	-1,41159	3,976522	-0,99831	0,360412	0,459453	-6,87512
CYP4F3	0,848107	1,285708	0,997383	0,360824	0,459895	-6,87604
GUSBP11	0,848107	1,285708	0,997383	0,360824	0,459895	-6,87604
C17orf100	-0,88129	1,107309	-0,9972	0,360906	0,459918	-6,87622
TMSB4Y	-0,88129	1,107309	-0,9972	0,360906	0,459918	-6,87622
HMBS	-0,7618	2,983352	-0,99711	0,360945	0,459926	-6,87631
MYNN	0,187314	6,237794	0,99653	0,361203	0,460213	-6,87689
SWI5	0,428585	4,054826	0,99623	0,361336	0,460341	-6,87718
CCR4	-1,28334	3,273275	-0,99605	0,361416	0,460402	-6,87736
INPP5F	-0,4468	4,84428	-0,99353	0,362539	0,461791	-6,87987
TSC2	0,233885	5,794557	0,993344	0,36262	0,461852	-6,88005
VCP	-0,13228	8,823919	-0,99317	0,362696	0,461868	-6,88022
CCNE2	0,943358	2,63563	0,993169	0,362698	0,461868	-6,88022
TMED6	1,130772	1,42704	0,99286	0,362836	0,462002	-6,88053
PDHA1	-0,14793	8,040653	-0,99236	0,363058	0,462243	-6,88102
MSRB2	-0,53469	3,751082	-0,99216	0,363148	0,462276	-6,88122
TET1	0,526949	3,70674	0,992158	0,363149	0,462276	-6,88122
IGFBP4	-0,89483	2,383201	-0,992	0,363221	0,462325	-6,88138
ABCA2	-0,48483	4,034819	-0,99163	0,363383	0,462453	-6,88174
CENPK	0,164362	6,472625	0,991565	0,363414	0,462453	-6,88181
KIAA1257	1,074131	1,065386	0,991479	0,363452	0,462453	-6,88189
CYP2E1	1,074131	1,065386	0,991479	0,363452	0,462453	-6,88189
BPNT1	-0,45496	5,370311	-0,99106	0,363639	0,462634	-6,88231
FEN1	-0,13331	5,179938	-0,99097	0,36368	0,462634	-6,8824
ZNF354A	0,173148	5,872848	0,990941	0,363692	0,462634	-6,88243
RANGRF	-0,20045	5,987763	-0,9904	0,363933	0,462898	-6,88296
ERGIC1	-0,14616	7,470562	-0,99015	0,364044	0,462998	-6,88321
VKORC1L1	0,206037	6,150208	0,989822	0,364193	0,463145	-6,88353
CHMP2B	-0,15114	8,400419	-0,9894	0,36438	0,463342	-6,88395
RFC5	-0,83276	4,352165	-0,98886	0,364624	0,46361	-6,88449
CNPY4	-0,87712	5,631665	-0,9887	0,364697	0,463641	-6,88465
SLC25A23	0,473821	2,701016	0,988659	0,364713	0,463641	-6,88468
SCAF11	-0,1232	10,37388	-0,98844	0,36481	0,463722	-6,8849
ABCG1	-0,95	4,664635	-0,98759	0,365192	0,464166	-6,88574
PIP4K2B	0,279502	5,976178	0,986193	0,365818	0,46492	-6,88712
NLRC3	0,209992	6,879874	0,98603	0,365892	0,464971	-6,88728
REPIN1	0,152971	6,48502	0,985956	0,365925	0,464972	-6,88735
HNRNPUL2	0,145719	7,776025	0,984389	0,366629	0,465825	-6,8889
ASCC1	0,2152	5,8034	0,984098	0,36676	0,465949	-6,88918
SCAI	0,197179	5,433037	0,983711	0,366934	0,466128	-6,88956

RINL	0,269118	5,400986	0,983317	0,367111	0,466256	-6,88995
GAS8	-1,33333	2,214619	-0,98328	0,367127	0,466256	-6,88999
INVS	0,474711	4,867317	0,983267	0,367134	0,466256	-6,89
ZNF764	-0,45183	4,469686	-0,98278	0,367353	0,466493	-6,89048
CHFR	-0,3036	6,562655	-0,98193	0,367738	0,46694	-6,89132
ST7	-0,46411	3,006029	-0,98172	0,367833	0,467018	-6,89153
REXO2	0,186275	7,11616	0,98154	0,367912	0,467049	-6,8917
HLA-J	-0,63349	2,619041	-0,98146	0,367948	0,467049	-6,89178
PI4KB	0,247857	5,450909	0,981443	0,367956	0,467049	-6,8918
C2orf40	1,452517	2,166901	0,980806	0,368243	0,467371	-6,89242
ZNF572	-0,66667	1,881285	-0,97982	0,368686	0,46785	-6,89339
B3GAT2	0,666667	1,440643	0,979824	0,368686	0,46785	-6,89339
C10orf88	0,734475	4,24095	0,979532	0,368818	0,467975	-6,89367
RAN	0,162059	9,433694	0,979212	0,368963	0,468077	-6,89399
EVI5L	-0,91232	1,512803	-0,97917	0,36898	0,468077	-6,89402
CWF19L2	0,180179	8,996035	0,979134	0,368998	0,468077	-6,89406
RAB4B	-1,0148	1,174066	-0,97859	0,369246	0,46835	-6,8946
MTAP	0,205757	6,453961	0,977887	0,369562	0,468709	-6,89529
DFFB	0,194222	6,148074	0,977255	0,369848	0,469029	-6,89591
TRAPPC11	0,153777	7,14596	0,976701	0,370099	0,469306	-6,89645
SNF8	-0,15637	6,711682	-0,97648	0,370201	0,469378	-6,89667
SLBP	-0,1593	7,588118	-0,97643	0,370222	0,469378	-6,89671
LSM4	0,158798	6,546606	0,975902	0,370461	0,469638	-6,89723
APRT	0,223781	6,698696	0,9757	0,370553	0,469712	-6,89743
PSMC6	0,120113	7,644617	0,97559	0,370603	0,469733	-6,89754
LPCAT4	-1,51877	4,160093	-0,97547	0,370657	0,469739	-6,89765
YARS2	-0,3183	3,889916	-0,97543	0,370673	0,469739	-6,89769
MRS2	0,271027	6,203611	0,975143	0,370805	0,469864	-6,89797
PHF11	-0,17476	8,654214	-0,97427	0,3712	0,4703	-6,89882
PDE4B	0,146585	8,309242	0,97424	0,371216	0,4703	-6,89886
GLO1	0,142779	7,594557	0,973581	0,371515	0,470636	-6,8995
GMEB1	0,150689	7,404497	0,973088	0,371739	0,470878	-6,89998
SAMD3	-0,23889	8,041479	-0,97233	0,372084	0,471272	-6,90072
TEFM	0,274707	5,195246	0,971885	0,372286	0,471487	-6,90116
RAI2	1,174521	1,448914	0,97138	0,372516	0,471736	-6,90165
BMF	-0,16363	6,085668	-0,97084	0,372762	0,472005	-6,90218
TAPBPL	0,239532	5,448958	0,970193	0,373057	0,472336	-6,90281
NDUFA12	-0,15506	7,817091	-0,96981	0,373234	0,472517	-6,90319
RIMKLB	-0,40931	5,163109	-0,96953	0,373358	0,472633	-6,90345
CASC3	-0,14985	8,210467	-0,96925	0,373487	0,472754	-6,90373
ZNF597	0,288314	4,180767	0,968925	0,373635	0,472899	-6,90404
ARL4D	-1,1775	1,524534	-0,96852	0,373822	0,473092	-6,90444
DAAM1	0,136299	7,853714	0,968408	0,373872	0,473113	-6,90455
CBR3-AS1	0,805012	1,704803	0,968179	0,373976	0,473203	-6,90477
PPP1R15A	0,185584	8,089911	0,968062	0,37403	0,473229	-6,90488
MARK2	0,236711	6,735325	0,967766	0,374165	0,473335	-6,90517
ZNF428	-0,35307	7,430893	-0,96772	0,374185	0,473335	-6,90522
ZNF576	0,283647	5,029584	0,967658	0,374214	0,473335	-6,90528
MAP3K5	0,158143	7,76672	0,966706	0,37465	0,473843	-6,9062
PPP1R9A	-0,56544	2,201016	-0,96649	0,374749	0,473926	-6,90641
TOMM20	-0,15638	8,016454	-0,96539	0,375253	0,474513	-6,90748
RYBP	0,131912	8,85754	0,96533	0,37528	0,474513	-6,90754

KLHDC7B	-1,10057	2,832116	-0,965	0,375432	0,474663	-6,90786
MRPL47	0,193909	6,84264	0,964298	0,375753	0,475026	-6,90854
RNF38	0,136141	7,325064	0,964148	0,375821	0,47507	-6,90869
RHOC	-0,51704	4,365831	-0,96397	0,375903	0,475099	-6,90886
LARS2	0,272084	5,360773	0,96391	0,375931	0,475099	-6,90892
TNFRSF4	-1,20893	1,966951	-0,96382	0,37597	0,475099	-6,909
DGKG	0,81933	2,912263	0,963705	0,376025	0,475099	-6,90912
HADH	-0,28306	5,620197	-0,9637	0,376029	0,475099	-6,90913
C1orf174	0,170529	6,996485	0,963659	0,376046	0,475099	-6,90916
ATPAF1	0,286242	6,186215	0,96278	0,376449	0,475566	-6,91002
UBE2D3	0,127317	10,36596	0,962119	0,376753	0,475908	-6,91066
ZNF256	-0,39755	2,329547	-0,962	0,376809	0,475936	-6,91078
NMT1	0,212206	8,447693	0,961805	0,376897	0,476005	-6,91096
SLC27A5	-0,70368	1,899791	-0,96105	0,377247	0,476403	-6,9117
TMEM209	0,150392	6,524565	0,960044	0,377708	0,476943	-6,91267
TCF7L2	0,340392	5,882753	0,959901	0,377773	0,476983	-6,91281
GOLGA7	0,141111	8,927271	0,959614	0,377906	0,477108	-6,91308
TARSL2	0,201225	6,348292	0,959177	0,378107	0,477319	-6,91351
AIDA	0,294989	4,443552	0,958967	0,378204	0,477399	-6,91371
FAM193A	0,140429	7,423817	0,958497	0,378421	0,47763	-6,91416
ATP2B4	-0,19798	9,02884	-0,95826	0,378531	0,477726	-6,91439
TADA3	-0,16604	5,805964	-0,95754	0,378865	0,478105	-6,91509
POSTN	0,935785	1,524534	0,956742	0,379231	0,478524	-6,91586
PSMF1	0,142277	7,457981	0,95654	0,379324	0,478599	-6,91605
BTN3A3	0,154627	7,794217	0,955464	0,379822	0,479184	-6,91709
SETD7	-0,16012	6,50978	-0,9552	0,379942	0,479293	-6,91734
TIMM50	0,297159	4,682038	0,954618	0,380213	0,479592	-6,91791
RASGEF1A	-0,53578	3,537007	-0,95451	0,380264	0,479614	-6,91801
LMBRD2	0,117678	7,704591	0,953994	0,380502	0,479871	-6,91851
TIAL1	0,137815	8,644017	0,953596	0,380686	0,480061	-6,91889
NDUFAF1	-0,20876	5,826955	-0,95342	0,380769	0,480122	-6,91907
AIP	0,229862	6,644988	0,953232	0,380855	0,480188	-6,91924
ELOVL5	0,129506	8,603276	0,953019	0,380954	0,48027	-6,91945
NENF	-0,2486	5,778944	-0,95122	0,381789	0,481279	-6,92118
MRPL44	0,158404	7,548272	0,951094	0,381847	0,481286	-6,9213
CNTROB	-0,91232	2,286779	-0,95104	0,381875	0,481286	-6,92136
FBXL15	-0,46188	4,208101	-0,95096	0,381909	0,481286	-6,92143
WDR6	-0,15911	6,34626	-0,95062	0,382065	0,481286	-6,92175
RMND5B	-1,06233	2,800285	-0,95022	0,382253	0,481286	-6,92214
FAM47E	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
KCNAB1	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
XK	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
ZNF774	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
MYBL2	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
S1PR3	-0,66667	0,861654	-0,95018	0,382271	0,481286	-6,92218
SYNPR	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
TRIM31	0,666667	0,861654	0,950183	0,382271	0,481286	-6,92218
UBE2S	-0,66667	0,861654	-0,95018	0,382271	0,481286	-6,92218
SNX19	0,177858	6,731784	0,949229	0,382715	0,481785	-6,92309
UQCRC2	-0,183	8,326672	-0,94918	0,382735	0,481785	-6,92314
SAMM50	0,229606	5,840454	0,949087	0,382781	0,481799	-6,92323
BHLHE40	-0,15849	7,850359	-0,94892	0,382857	0,481853	-6,92339

PLEKHA7	-1,1189	3,206954	-0,94869	0,382966	0,481915	-6,92361
RAB3GAP2	0,139156	8,461293	0,948669	0,382975	0,481915	-6,92363
LDB1	-0,26979	5,698518	-0,94856	0,383024	0,481934	-6,92373
WDR55	-0,21361	6,042558	-0,94788	0,383342	0,482291	-6,92439
DDX11	-0,77398	1,248642	-0,94746	0,383538	0,482495	-6,92479
CLPTM1L	-0,13091	8,151984	-0,94699	0,383757	0,482727	-6,92524
CUZD1	1,061956	1,638287	0,946146	0,384151	0,48318	-6,92605
KLLN	0,912322	0,984482	0,945644	0,384386	0,483432	-6,92653
RNF187	-0,18679	7,666545	-0,94482	0,384772	0,483843	-6,92732
PSMD4	0,205029	8,775383	0,944776	0,384791	0,483843	-6,92736
ADRM1	0,136217	6,46839	0,944703	0,384825	0,483843	-6,92743
KDM5A	0,137679	9,978849	0,944652	0,384849	0,483843	-6,92748
LIN7C	-0,13159	7,204023	-0,94427	0,385028	0,484025	-6,92785
FLYWCH1	-1,24377	3,288553	-0,9438	0,385249	0,48426	-6,9283
LRRC23	0,339025	4,010046	0,943618	0,385332	0,484288	-6,92847
DRG2	0,185039	5,161867	0,943601	0,385341	0,484288	-6,92848
ZNF74	-0,89368	4,584366	-0,94321	0,385523	0,484474	-6,92886
ZNHIT2	0,368972	3,525275	0,942742	0,385743	0,484707	-6,9293
FBXO7	0,137938	8,673091	0,941221	0,386455	0,48556	-6,93076
CCNJ	-1,17262	3,435273	-0,94052	0,386784	0,48593	-6,93143
MYO18A	-0,1851	5,389209	-0,94017	0,386948	0,486092	-6,93176
EP400	0,200947	8,349135	0,939626	0,387204	0,486371	-6,93228
ADAMTS3	1,518196	1,092431	0,938868	0,38756	0,486774	-6,933
ZBTB33	0,162828	7,159811	0,938738	0,387621	0,486794	-6,93312
TUBGCP3	-0,15697	6,92615	-0,93869	0,387644	0,486794	-6,93317
TTC13	0,284548	5,637676	0,93826	0,387846	0,487004	-6,93358
ZNF792	-0,68177	3,734186	-0,93742	0,388239	0,487454	-6,93437
MBD4	-0,13354	8,754519	-0,93668	0,388591	0,487853	-6,93509
ZNF250	0,806263	3,459773	0,936566	0,388643	0,487875	-6,93519
RYR3	-1,03318	1,785708	-0,93586	0,388978	0,488251	-6,93587
NUP43	0,195607	7,16575	0,935366	0,389209	0,488498	-6,93633
ACVR1B	-0,29684	6,597947	-0,93511	0,389327	0,488604	-6,93657
DMWD	-0,61521	3,970026	-0,93482	0,389467	0,488736	-6,93685
MSRB3	-0,76426	1,822773	-0,93468	0,389534	0,488777	-6,93699
MAFG	0,132586	8,95141	0,934262	0,38973	0,488979	-6,93738
EFCAB10	0,805012	1,26416	0,93383	0,389934	0,489148	-6,93779
PTPRG	0,805012	1,26416	0,93383	0,389934	0,489148	-6,93779
RAB12	-0,1553	7,837297	-0,93331	0,390179	0,489411	-6,93828
DYNC1I1	0,935785	1,241869	0,933044	0,390305	0,489483	-6,93854
TMEM217	0,935785	1,241869	0,933044	0,390305	0,489483	-6,93854
TM4SF19	-0,83062	1,415309	-0,9325	0,390563	0,489763	-6,93905
KLF7	0,202621	7,214652	0,931815	0,390886	0,490125	-6,9397
FNTB	-0,48231	4,250459	-0,93127	0,391146	0,490407	-6,94022
PRR5	-0,69985	1,814028	-0,93074	0,391396	0,490658	-6,94072
BAZ1A	-0,11901	10,02942	-0,9307	0,391416	0,490658	-6,94076
STXBP5	-0,14333	7,34555	-0,93051	0,391506	0,490728	-6,94094
VAPA	0,166123	9,078752	0,930001	0,391745	0,490984	-6,94142
NFXL1	0,173805	5,882577	0,929563	0,391953	0,491201	-6,94183
STK24	0,172146	8,476575	0,928945	0,392246	0,491525	-6,94242
SHOX2	-0,75434	1,151148	-0,92884	0,392296	0,491543	-6,94251
PDZD4	-0,78752	2,329547	-0,92875	0,392338	0,491552	-6,9426
KLRC2	0,171536	5,527349	0,928341	0,392533	0,491722	-6,94299

TSC22D4	-0,17964	7,211921	-0,92832	0,392543	0,491722	-6,94301
DDX52	0,185114	7,724102	0,927846	0,392768	0,491895	-6,94345
DNAL1	0,283198	4,293375	0,927783	0,392798	0,491895	-6,94351
DIO2	0,861654	0,959148	0,927736	0,39282	0,491895	-6,94356
PRDM5	0,861654	0,959148	0,927736	0,39282	0,491895	-6,94356
CLK2	0,175551	7,038122	0,927079	0,393132	0,492242	-6,94418
C1orf122	-0,24382	5,275522	-0,92663	0,393348	0,492469	-6,94461
VPS8	-0,23738	6,427239	-0,92634	0,393483	0,492594	-6,94487
FFAR2	-1,05664	1,797439	-0,92616	0,393568	0,492657	-6,94504
GABARAPL1	0,171623	8,753182	0,925932	0,393678	0,492751	-6,94526
SHISA5	0,141926	8,54035	0,925798	0,393742	0,492783	-6,94539
CFL2	-0,41085	5,233249	-0,92573	0,393774	0,492783	-6,94545
DTX3L	-0,17883	9,049243	-0,92531	0,393974	0,492991	-6,94585
BLOC1S3	-0,73555	4,970696	-0,92474	0,394244	0,493285	-6,94638
NFYA	-0,1271	7,210761	-0,9246	0,394312	0,493326	-6,94652
WDYHV1	-1,10731	2,120468	-0,92424	0,394483	0,493496	-6,94685
MYSM1	0,153257	7,529615	0,92357	0,394803	0,493853	-6,94749
THG1L	0,347002	5,749546	0,923385	0,394891	0,493879	-6,94766
C18orf32	0,434952	6,035404	0,92338	0,394894	0,493879	-6,94767
LRRC27	-0,81099	2,286779	-0,92311	0,395022	0,493995	-6,94792
SYNGAP1	0,503867	3,657515	0,922319	0,3954	0,494425	-6,94866
ASPM	-0,61096	3,964575	-0,9221	0,395504	0,494512	-6,94887
C17orf67	0,551303	3,59806	0,92191	0,395596	0,494582	-6,94905
ECHDC2	0,22835	5,2889	0,921171	0,395948	0,494979	-6,94974
PRPF38B	0,122109	10,68895	0,920298	0,396366	0,495457	-6,95056
PPP6R1	0,292478	4,07554	0,920142	0,396441	0,495476	-6,95071
DONSON	0,488993	4,378123	0,920121	0,396451	0,495476	-6,95073
PPTC7	0,125117	8,572789	0,919629	0,396686	0,495672	-6,95119
SAP130	0,250456	6,270912	0,919611	0,396695	0,495672	-6,95121
ZNF2	0,540119	3,601511	0,919572	0,396713	0,495672	-6,95124
SERPINB2	0,532267	6,164035	0,919437	0,396778	0,49571	-6,95137
SMARCC1	0,118356	9,659176	0,91917	0,396906	0,495825	-6,95162
BMS1P4	-0,43093	2,51776	-0,91898	0,396995	0,495849	-6,95179
PDE1A	-0,43093	2,51776	-0,91898	0,396995	0,495849	-6,95179
ASB2	0,699845	2,675683	0,91842	0,397265	0,496142	-6,95232
SAMD4B	0,192546	7,13605	0,917839	0,397543	0,496446	-6,95287
BEND2	0,296323	2,066457	0,916983	0,397954	0,496916	-6,95367
KIAA0825	-1,02632	2,953801	-0,91593	0,398462	0,497505	-6,95466
TFG	0,171638	8,349489	0,915731	0,398555	0,497578	-6,95484
ENPP4	0,200522	6,9346	0,915313	0,398756	0,497785	-6,95523
CSDE1	0,110127	11,13917	0,915184	0,398818	0,497819	-6,95535
ZNF519	-0,71527	4,024769	-0,91504	0,398887	0,49786	-6,95549
ECI2	-0,22488	5,918295	-0,91476	0,399024	0,497987	-6,95575
VHL	0,140209	7,705842	0,91447	0,399162	0,498115	-6,95602
TMEM43	-0,14895	8,461391	-0,91405	0,399362	0,498321	-6,95641
E2F4	0,134607	7,087587	0,913865	0,399453	0,498359	-6,95659
OSTC	-0,14055	8,294501	-0,91384	0,399463	0,498359	-6,95661
AFG3L1P	0,172796	6,987501	0,913655	0,399554	0,498428	-6,95678
MAP1A	-0,81493	2,464106	-0,91335	0,3997	0,498567	-6,95707
KAT8	0,239088	5,862042	0,913248	0,399749	0,498585	-6,95716
SCRN2	-0,54303	4,692411	-0,91311	0,399817	0,498625	-6,95729
ANKS6	-0,98606	2,202791	-0,91302	0,39986	0,498635	-6,95738

NECAB3	-0,86165	1,097494	-0,91205	0,400328	0,499174	-6,95828
TCP11L1	0,378687	3,691942	0,911964	0,400369	0,49918	-6,95836
USP24	0,151419	7,636954	0,911216	0,400729	0,499586	-6,95906
RBM25	0,12103	11,10363	0,910951	0,400857	0,499701	-6,9593
ZNF85	-0,50869	3,909606	-0,91051	0,401071	0,499924	-6,95972
ZNF426	0,30028	5,500288	0,909696	0,401463	0,500368	-6,96047
MRPS2	0,258073	5,349629	0,909376	0,401618	0,500517	-6,96077
DDX3Y	0,146695	9,316683	0,909269	0,401669	0,500538	-6,96087
HPCAL1	0,184931	7,940773	0,908915	0,40184	0,500706	-6,9612
AGBL5	0,355781	4,744234	0,908659	0,401964	0,500817	-6,96144
TAF4	0,253261	6,190214	0,908196	0,402188	0,501051	-6,96187
NPAS2	-0,91232	1,512803	-0,90717	0,402683	0,501624	-6,96282
C9orf66	-0,77398	1,053655	-0,90682	0,402854	0,501793	-6,96315
RAD1	0,240334	6,117986	0,906595	0,402964	0,501885	-6,96336
PTPRB	1,107309	1,660964	0,906416	0,40305	0,501948	-6,96352
ESRP1	0,935785	1,329547	0,905699	0,403398	0,502224	-6,96419
SLC16A9	0,935785	1,329547	0,905699	0,403398	0,502224	-6,96419
ZFR2	0,935785	1,329547	0,905699	0,403398	0,502224	-6,96419
RNF212	0,952915	3,345568	0,905541	0,403474	0,502224	-6,96433
NUP93	-0,21031	7,331283	-0,90552	0,403484	0,502224	-6,96435
FYTTD1	0,15837	8,671198	0,90552	0,403485	0,502224	-6,96435
GDPD5	0,537958	4,220732	0,905306	0,403588	0,502242	-6,96455
TBXA2R	-0,80501	0,930827	-0,9052	0,403641	0,502242	-6,96465
CHRNA7	0,805012	0,930827	0,905197	0,403641	0,502242	-6,96465
METAP1D	0,805012	0,930827	0,905197	0,403641	0,502242	-6,96465
SGCB	-1,10731	3,327631	-0,90472	0,403871	0,502483	-6,96509
ANKRD6	-0,54718	3,652161	-0,90447	0,403995	0,502593	-6,96533
PRPF40B	-0,82848	2,521547	-0,90425	0,4041	0,502681	-6,96553
DHRS2	0,968964	1,679469	0,904051	0,404198	0,502757	-6,96572
TESK2	-0,48724	4,518472	-0,90358	0,404428	0,503	-6,96616
DLL1	-0,48332	4,356612	-0,90329	0,404568	0,503129	-6,96642
THUMPD3	0,208267	6,998314	0,901945	0,405222	0,503898	-6,96767
JAM3	-0,9183	2,728266	-0,90171	0,405335	0,503994	-6,96788
MLLT10	-0,13354	7,712539	-0,90137	0,405499	0,504154	-6,96819
CD99L2	-0,18321	5,132979	-0,90102	0,40567	0,504322	-6,96852
POU3F1	0,676582	2,640588	0,900873	0,405743	0,504369	-6,96866
ZNF28	-0,18161	5,75794	-0,90045	0,405949	0,50458	-6,96905
PARG	0,268377	5,688856	0,899558	0,406384	0,505077	-6,96987
FCRL1	0,380219	4,146384	0,899473	0,406426	0,505084	-6,96995
CDC5L	-0,14601	8,225238	-0,89926	0,406531	0,505171	-6,97015
SLC24A1	0,319155	4,087789	0,899111	0,406603	0,505215	-6,97028
DHX38	0,165622	7,932388	0,898938	0,406687	0,505276	-6,97044
CDKAL1	0,22457	5,621016	0,897996	0,407147	0,505802	-6,97131
CYP19A1	1,250969	2,54378	0,897751	0,407266	0,505907	-6,97154
PCYOX1	0,137219	6,346011	0,896547	0,407855	0,506594	-6,97265
TTY14	0,740797	1,232053	0,896205	0,408023	0,506747	-6,97296
UROD	-0,32351	6,205869	-0,89615	0,408051	0,506747	-6,97302
VPS33A	0,152164	7,284126	0,895826	0,408208	0,50684	-6,97331
SNX6	-0,15008	8,232227	-0,89578	0,408228	0,50684	-6,97335
C2orf74	-0,78647	2,80921	-0,89578	0,408233	0,50684	-6,97336
NUDT6	-0,77183	2,216535	-0,8955	0,408367	0,506962	-6,97361
NDUFA5	0,120053	8,702095	0,895026	0,4086	0,507206	-6,97405

SERTAD2	-0,1864	6,900791	-0,89422	0,408993	0,50765	-6,97479
DARS2	-0,31761	5,006399	-0,89393	0,409136	0,507783	-6,97506
DCUN1D4	0,219743	5,951263	0,89318	0,409504	0,508195	-6,97574
RMST	0,986453	1,883201	0,893058	0,409564	0,508225	-6,97586
RAB27B	-0,42902	4,12396	-0,89211	0,410029	0,508757	-6,97673
WBP2	0,125412	7,195798	0,89183	0,410167	0,508884	-6,97698
DNAJC17	0,379917	4,314247	0,891233	0,410461	0,509203	-6,97753
ARHGAP1	-0,22558	6,420016	-0,89115	0,4105	0,509208	-6,97761
EPC2	0,134523	7,479473	0,890676	0,410735	0,509454	-6,97804
TOM1L2	0,290102	5,184333	0,890348	0,410896	0,509609	-6,97834
ARFGAP2	-0,28764	5,07705	-0,89004	0,411046	0,509743	-6,97862
CTH	-0,75434	2,012803	-0,88998	0,411076	0,509743	-6,97868
MRPL22	0,210018	6,474918	0,889653	0,411238	0,509899	-6,97898
LTB	0,141212	11,32727	0,888775	0,41167	0,51039	-6,97978
APBB2	-0,616	1,081976	-0,88689	0,412598	0,511316	-6,9815
BOLA3-AS1	-0,616	1,081976	-0,88689	0,412598	0,511316	-6,9815
MAGIX	-0,616	1,081976	-0,88689	0,412598	0,511316	-6,9815
MDS2	-0,616	1,081976	-0,88689	0,412598	0,511316	-6,9815
SUV39H1	-0,616	1,081976	-0,88689	0,412598	0,511316	-6,9815
ADAM8	-0,24401	8,590074	-0,8857	0,413188	0,511988	-6,98259
UBIAD1	-0,15724	5,940155	-0,88565	0,413212	0,511988	-6,98264
PEX16	-0,63585	3,711229	-0,88516	0,413452	0,512239	-6,98308
ZNF346	-0,44064	3,263416	-0,88509	0,413487	0,512239	-6,98315
PSMA8	1,112623	1,946287	0,884707	0,413678	0,51243	-6,9835
TMEM191A	-0,86165	1,204803	-0,88398	0,41404	0,512833	-6,98417
MIR22HG	-0,15995	6,725915	-0,88323	0,41441	0,513247	-6,98485
GDPD3	-0,49197	3,41525	-0,88289	0,414577	0,513409	-6,98515
CDC42SE1	-0,1633	9,550301	-0,88217	0,414935	0,513807	-6,98581
DCTN4	-0,1417	6,311553	-0,88163	0,415201	0,514092	-6,9863
PXMP2	-0,89269	1,220321	-0,88133	0,415352	0,514234	-6,98658
SIRT3	-1,20268	3,760594	-0,88022	0,415902	0,514869	-6,98758
CRTAP	0,112327	7,005471	0,880027	0,415997	0,514941	-6,98776
PRSS30P	-0,84279	1,98821	-0,8799	0,416058	0,514973	-6,98787
PKD1	0,509797	4,173473	0,879638	0,41619	0,515091	-6,98811
EIF5A2	0,292398	4,877733	0,879332	0,416342	0,515233	-6,98839
ALKBH5	0,144938	8,70021	0,879255	0,41638	0,515235	-6,98846
BROX	0,108706	8,868881	0,879063	0,416476	0,515309	-6,98863
SOCS1	-0,18226	6,730153	-0,87879	0,416609	0,515429	-6,98888
IL31RA	0,968964	1,346136	0,877455	0,417276	0,516187	-6,99009
HEXIM2	-0,6863	1,204803	-0,87742	0,417295	0,516187	-6,99013
ZBTB48	-0,84948	2,532049	-0,87711	0,417445	0,516327	-6,9904
ABCE1	0,172982	8,156365	0,876454	0,417774	0,516595	-6,991
USP54	-0,44064	1,748642	-0,87631	0,417845	0,516595	-6,99113
ZNF826P	-0,44064	1,748642	-0,87631	0,417845	0,516595	-6,99113
OMG	0,440643	1,748642	0,876312	0,417845	0,516595	-6,99113
PIEZO2	0,440643	1,748642	0,876312	0,417845	0,516595	-6,99113
COG5	0,148602	6,515046	0,876196	0,417903	0,516622	-6,99123
CALM3	-0,13899	9,469399	-0,87602	0,417993	0,516688	-6,99139
GPR82	-0,7408	0,89872	-0,87591	0,418045	0,516708	-6,99149
GTPBP8	-0,17795	6,594435	-0,87576	0,418119	0,516753	-6,99162
FAM135A	-0,24123	5,805566	-0,87564	0,418179	0,516782	-6,99173
HCG27	0,828476	1,716535	0,875038	0,41848	0,517109	-6,99228

ABCC5	0,149843	6,380269	0,874512	0,418742	0,517388	-6,99275
ELL2	0,206311	6,252807	0,874036	0,41898	0,517637	-6,99318
ZNF574	-0,45665	3,676424	-0,87364	0,419179	0,517838	-6,99355
DYNC1H1	-0,15478	9,131039	-0,87265	0,419672	0,518401	-6,99444
TSG101	-0,13261	6,990669	-0,87217	0,419914	0,518655	-6,99487
CEACAM1	-0,82316	3,526346	-0,87204	0,419976	0,518686	-6,99498
FGD3	-0,11463	7,29976	-0,87131	0,420343	0,519094	-6,99565
SLC24A5	0,666667	1,333333	0,871027	0,420484	0,519223	-6,9959
CCDC110	-0,52832	0,930827	-0,86994	0,421028	0,519679	-6,99688
ARHGAP42	0,528321	0,930827	0,869941	0,421028	0,519679	-6,99688
BAHD1	-0,25338	6,273199	-0,86976	0,421118	0,519679	-6,99704
CPXM2	1,107309	0,886988	0,869736	0,421131	0,519679	-6,99706
F11	1,107309	0,886988	0,869736	0,421131	0,519679	-6,99706
FGD5	1,107309	0,886988	0,869736	0,421131	0,519679	-6,99706
TMEM213	1,107309	0,886988	0,869736	0,421131	0,519679	-6,99706
NUFIP1	-0,41324	4,542295	-0,8697	0,421148	0,519679	-6,99709
PSPN	0,742756	3,414473	0,869593	0,421203	0,519702	-6,99719
SEMA4B	-0,29571	4,670823	-0,86863	0,421687	0,520253	-6,99806
ENTPD6	-0,29324	4,547377	-0,86819	0,421906	0,520478	-6,99845
WRAP73	0,328562	5,521547	0,868077	0,421963	0,520485	-6,99856
ATE1	0,19759	7,087305	0,868034	0,421985	0,520485	-6,99859
CABLES1	0,41718	2,006029	0,867828	0,422088	0,520567	-6,99878
MFN1	-0,13293	7,665663	-0,86732	0,422344	0,520837	-6,99924
HIST1H2BH	0,879143	1,829547	0,867098	0,422455	0,520928	-6,99943
SOX4	-0,17814	6,244731	-0,86682	0,422594	0,521054	-6,99968
TMEM126E	0,133006	7,2624	0,866428	0,422792	0,521253	-7,00004
LPAR3	0,740797	1,565386	0,865339	0,42334	0,521882	-7,00101
TNIP2	-0,57528	4,895825	-0,86521	0,423402	0,521914	-7,00113
AGL	0,196923	6,759095	0,864224	0,423901	0,522483	-7,00201
ZNF704	-0,29276	4,268307	-0,86364	0,424193	0,522779	-7,00253
CNTRL	-0,14963	8,961404	-0,8636	0,424215	0,522779	-7,00257
FAM32A	-0,11201	8,447595	-0,86298	0,424527	0,523086	-7,00313
TMEM41B	0,235617	6,145081	0,86296	0,424538	0,523086	-7,00315
DOK4	-0,66667	1,107309	-0,86272	0,424659	0,523144	-7,00336
ERC2	-0,66667	1,107309	-0,86272	0,424659	0,523144	-7,00336
OR56A3	0,773976	1,053655	0,8614	0,425325	0,523919	-7,00454
TXNRD2	-0,36651	2,785708	-0,8612	0,425428	0,524	-7,00472
SLC25A17	-0,48172	4,71593	-0,86082	0,425617	0,524187	-7,00506
SP100	-0,1104	9,545171	-0,86013	0,425969	0,524575	-7,00568
C18orf25	0,118163	6,991035	0,859763	0,426152	0,524755	-7,006
EIF4EBP3	-0,50694	3,591944	-0,85942	0,426324	0,524921	-7,0063
PHLPP2	0,238138	5,38807	0,859214	0,42643	0,525006	-7,00649
PUS1	-1,20335	3,766961	-0,85873	0,426678	0,525265	-7,00693
WAS	-0,15704	7,254086	-0,85833	0,426877	0,525465	-7,00728
ZNF19	0,333333	3,230764	0,857759	0,427167	0,525775	-7,00779
SS18	0,128458	7,039143	0,857601	0,427247	0,525828	-7,00793
PNKP	0,186732	5,321323	0,857444	0,427326	0,52588	-7,00807
BTBD2	-0,26185	4,514807	-0,85721	0,427443	0,525978	-7,00827
RPL22L1	-0,13187	7,243893	-0,857	0,42755	0,526064	-7,00846
GPR183	-0,12855	8,58717	-0,85651	0,427801	0,526327	-7,0089
KLRF1	0,181066	7,413546	0,856052	0,428033	0,526566	-7,00931
TIPRL	-0,1277	8,119011	-0,85583	0,428144	0,526657	-7,0095

TMEM222	-0,8435	2,478394	-0,85559	0,428265	0,526678	-7,00972
TMCC1	0,210762	6,581721	0,855586	0,428269	0,526678	-7,00972
IPO7	0,131338	8,761147	0,855579	0,428272	0,526678	-7,00973
PACS1	0,212275	7,129415	0,854862	0,428637	0,52705	-7,01037
PRMT5	-0,67237	5,314035	-0,8548	0,428666	0,52705	-7,01042
LAIR2	0,824644	1,468964	0,854763	0,428687	0,52705	-7,01045
TRMT12	-0,34414	5,249594	-0,8541	0,429025	0,527419	-7,01104
TSPYL1	0,152037	8,024252	0,853872	0,42914	0,527515	-7,01125
SON	-0,10874	11,22088	-0,85354	0,429308	0,527675	-7,01154
PEX3	-0,63684	5,202328	-0,853	0,429582	0,527966	-7,01202
ZXDC	-0,12104	7,296679	-0,85291	0,429627	0,527975	-7,0121
DPEP2	0,26449	4,915523	0,852069	0,430057	0,528458	-7,01284
SPOPL	-0,12442	7,204803	-0,85193	0,43013	0,528503	-7,01297
DCLRE1A	-0,60527	3,879742	-0,85141	0,430392	0,528778	-7,01343
SIPA1L3	0,151374	5,944566	0,851227	0,430486	0,528848	-7,01359
DBN1	0,427095	2,936856	0,84961	0,431311	0,529815	-7,01502
ZNF518A	-0,1943	7,576689	-0,84927	0,431486	0,529984	-7,01533
CCDC82	-0,231	7,592977	-0,84913	0,431557	0,530025	-7,01545
LDB2	-0,34353	3,322168	-0,84874	0,431755	0,530222	-7,01579
CAPN12	-0,68047	4,160046	-0,84865	0,431799	0,53023	-7,01587
NIPA2	-0,12144	7,267294	-0,84825	0,432008	0,53044	-7,01623
LYRM2	-0,1597	6,825159	-0,84803	0,432116	0,530527	-7,01642
ZFP28	-0,76426	2,01776	-0,84788	0,432192	0,530552	-7,01655
FBXL18	0,49131	2,302297	0,847847	0,432211	0,530552	-7,01658
NUP160	0,133607	6,514185	0,847387	0,432446	0,530794	-7,01699
C11orf74	0,820167	3,388963	0,847296	0,432493	0,530806	-7,01707
CCDC168	0,773976	3,022618	0,846996	0,432647	0,530906	-7,01733
FITM2	-1,1104	3,475718	-0,84699	0,43265	0,530906	-7,01734
ZNF281	-0,11814	8,712322	-0,84685	0,432722	0,530948	-7,01746
FCGR3B	0,99726	2,513428	0,846645	0,432826	0,53103	-7,01764
RGS9	-1,09146	3,540064	-0,8463	0,433005	0,531203	-7,01795
TACO1	-0,17873	4,84099	-0,84618	0,433064	0,53123	-7,01805
AMMECR1	0,135485	6,468756	0,845637	0,433342	0,531452	-7,01853
GOLGA5	-0,18726	6,583116	-0,84563	0,433346	0,531452	-7,01854
TRIM26	0,118328	6,847987	0,845591	0,433366	0,531452	-7,01857
KIR2DL4	-0,66667	1,194988	-0,84553	0,433396	0,531452	-7,01862
PIAS4	-0,14423	5,976237	-0,84439	0,43398	0,532123	-7,01963
THOC2	-0,12348	10,01045	-0,84407	0,434147	0,532281	-7,01991
GTF2H2C	-0,75434	1,925124	-0,84377	0,434299	0,532421	-7,02017
TOX4	0,178871	7,949847	0,843229	0,434577	0,532715	-7,02065
KCTD5	-0,13028	7,641343	-0,84235	0,435026	0,533219	-7,02142
PRPF3	0,160418	6,4274	0,842254	0,435078	0,533237	-7,02151
ADAM29	0,723308	1,028321	0,841302	0,435566	0,533697	-7,02234
PARD3	0,723308	1,028321	0,841302	0,435566	0,533697	-7,02234
PRRX1	0,723308	1,028321	0,841302	0,435566	0,533697	-7,02234
NKIRAS1	-0,54476	3,554212	-0,8405	0,435977	0,534114	-7,02304
DNAAF1	0,974277	1,682126	0,840494	0,435982	0,534114	-7,02305
NDRG3	0,134797	6,772349	0,840195	0,436136	0,534256	-7,02331
ALDH6A1	-0,2746	6,329617	-0,83961	0,43644	0,534543	-7,02383
BRF1	0,420225	5,05976	0,839594	0,436445	0,534543	-7,02384
CEPT1	0,12108	7,601696	0,839166	0,436666	0,534766	-7,02422
CEP57	0,156069	8,277053	0,839092	0,436704	0,534767	-7,02428

LZTR1	0,273599	4,796429	0,838774	0,436868	0,534921	-7,02456
PHYH	0,18704	5,163592	0,838555	0,436981	0,534976	-7,02475
LIG3	-0,1398	6,392766	-0,83849	0,437016	0,534976	-7,02481
BLK	0,402036	3,634087	0,838466	0,437026	0,534976	-7,02483
RANGAP1	0,145765	6,585924	0,838007	0,437263	0,53522	-7,02523
IYD	0,935785	1,575202	0,83752	0,437514	0,535481	-7,02566
GAK	0,107286	8,038776	0,837211	0,437674	0,535618	-7,02593
ZNF232	0,381485	4,464999	0,837155	0,437702	0,535618	-7,02597
ANXA6	-0,46013	6,628507	-0,83697	0,437797	0,535688	-7,02614
TMEM38A	-0,66667	0,861654	-0,83625	0,438168	0,536095	-7,02676
TXNRD3	0,879143	1,496213	0,835289	0,438666	0,536658	-7,02761
AFAP1	-0,25948	3,882203	-0,83517	0,438727	0,536686	-7,02771
TFEB	-0,34178	4,853209	-0,83461	0,43902	0,536998	-7,0282
PNPLA4	0,369569	4,069066	0,83436	0,439147	0,537106	-7,02842
C19orf66	-0,4615	5,238381	-0,83337	0,439659	0,537649	-7,02928
BMX	0,912322	1,984482	0,833356	0,439666	0,537649	-7,02929
RHOF	0,15313	6,274355	0,833211	0,439741	0,537694	-7,02942
L3MBTL4	0,373876	4,438567	0,833083	0,439807	0,537728	-7,02953
SH3BP5L	0,500833	4,211807	0,832807	0,439951	0,537857	-7,02977
STAG1	0,123436	8,111541	0,832039	0,440348	0,538286	-7,03044
BSPRY	0,773976	1,386988	0,831958	0,44039	0,538286	-7,03051
C14orf93	-0,94082	2,993696	-0,83191	0,440416	0,538286	-7,03055
LAPTM4B	0,314472	3,447358	0,83173	0,440508	0,538353	-7,03071
DECR2	-0,72331	1,028321	-0,83133	0,440717	0,538515	-7,03106
GHR	-0,72331	1,028321	-0,83133	0,440717	0,538515	-7,03106
RARRES3	-0,14783	7,981226	-0,83078	0,441002	0,538816	-7,03153
TIMM17B	-0,29189	4,618738	-0,83059	0,441102	0,538882	-7,0317
TDRD3	-0,19861	6,052901	-0,83053	0,441132	0,538882	-7,03175
GRAMD1B	-0,27985	3,719849	-0,83038	0,44121	0,538931	-7,03188
HDAC4	0,19664	6,748394	0,829227	0,441808	0,539549	-7,03288
TSTD1	-0,18033	7,671984	-0,82922	0,441812	0,539549	-7,03289
SPAG1	0,481595	3,845391	0,829112	0,441868	0,539549	-7,03298
PFDN1	-0,16725	6,655809	-0,82911	0,441869	0,539549	-7,03298
GABPB2	-0,1503	7,260384	-0,82895	0,441952	0,539603	-7,03312
ACTR6	0,104529	7,583248	0,828186	0,442349	0,540042	-7,03379
RANBP2	0,131353	8,90977	0,828065	0,442412	0,540072	-7,03389
PPM1D	-0,14486	6,466277	-0,8279	0,442496	0,540128	-7,03403
BMPR1B	0,935785	0,801226	0,827313	0,442803	0,540363	-7,03454
IGDCC4	0,935785	0,801226	0,827313	0,442803	0,540363	-7,03454
ZNF415	0,935785	0,801226	0,827313	0,442803	0,540363	-7,03454
AAK1	0,13721	9,053356	0,826897	0,443019	0,54058	-7,0349
POFUT2	0,197391	5,839023	0,826039	0,443467	0,541079	-7,03565
SUZ12	0,104326	9,241474	0,825809	0,443586	0,541179	-7,03584
TRA2B	0,108669	10,4108	0,825424	0,443787	0,541376	-7,03618
TPCN1	-0,34352	6,019397	-0,82456	0,44424	0,541882	-7,03693
RPIA	0,228323	7,507529	0,824272	0,444388	0,542016	-7,03717
TRAPPC6B	0,14583	6,818942	0,823953	0,444555	0,542172	-7,03745
LETM1	-0,18018	6,014901	-0,82314	0,444979	0,542611	-7,03815
ATP6V1E1	0,108463	7,786496	0,823116	0,444991	0,542611	-7,03817
EBI3	-0,76043	2,436856	-0,82272	0,445199	0,542818	-7,03851
PCNT	-0,12852	7,300418	-0,82249	0,445316	0,542872	-7,03871
CIAO1	0,253626	5,784051	0,822486	0,44532	0,542872	-7,03871

DIS3L	0,240047	5,458495	0,821714	0,445724	0,543296	-7,03938
ABCA5	-0,16134	7,196698	-0,82167	0,445745	0,543296	-7,03941
PDCD6IP	0,120065	8,980673	0,821539	0,445815	0,543335	-7,03953
SLC25A39	0,142228	5,383403	0,820793	0,446206	0,543747	-7,04017
GNA11	-0,16556	4,722774	-0,82075	0,44623	0,543747	-7,04021
PPP2R3C	-0,18832	6,797979	-0,82027	0,446479	0,544003	-7,04062
ALKBH1	-1,08066	3,596135	-0,81988	0,446682	0,544204	-7,04096
RAB33A	-0,55662	3,79394	-0,81978	0,446735	0,544221	-7,04104
SLC2A9	-0,84242	2,312016	-0,81879	0,447255	0,544808	-7,0419
NCAPD3	0,188505	5,864587	0,818411	0,447454	0,545004	-7,04222
PDSS2	-0,14424	6,133253	-0,81827	0,447529	0,545047	-7,04234
SENP3	0,242675	5,654022	0,817862	0,447742	0,54526	-7,04269
C11orf65	-0,57899	1,591791	-0,81736	0,448006	0,545534	-7,04313
CCNDBP1	-0,13192	7,499701	-0,81722	0,448082	0,54558	-7,04325
N6AMT1	-0,99243	3,270189	-0,81618	0,448623	0,546192	-7,04413
LYPD1	0,723308	1,223308	0,815375	0,449049	0,546663	-7,04483
FBXW9	-0,79744	1,39872	-0,81499	0,44925	0,546861	-7,04516
SETDB2	-0,13917	7,445434	-0,81481	0,449348	0,546933	-7,04531
FARS2	0,553257	4,241568	0,814337	0,449595	0,547186	-7,04572
P2RY14	-0,23116	5,286453	-0,81422	0,449657	0,547215	-7,04582
TARBP2	-0,69813	4,575557	-0,81404	0,449752	0,547283	-7,04597
CARS2	0,166191	5,826016	0,813135	0,450227	0,547815	-7,04674
SNRPC	0,132729	8,01875	0,812825	0,450391	0,547966	-7,04701
NDEL1	0,130644	8,181131	0,811877	0,450891	0,548528	-7,04782
ETF1	0,115332	7,607001	0,811373	0,451157	0,548804	-7,04825
CRY2	0,186301	5,85818	0,811288	0,451202	0,548809	-7,04832
TMEM134	0,138674	6,60105	0,811218	0,451238	0,548809	-7,04838
SATB2	-0,52832	0,792481	-0,81088	0,451416	0,548883	-7,04867
02-mar	-0,52832	0,792481	-0,81088	0,451416	0,548883	-7,04867
SNORD42B	-0,52832	0,792481	-0,81088	0,451416	0,548883	-7,04867
ACCS	0,246541	5,597369	0,810739	0,451491	0,548927	-7,04879
RPS19BP1	0,16958	6,160395	0,810531	0,451601	0,549014	-7,04897
RAD21	0,099943	10,46986	0,809988	0,451888	0,549285	-7,04943
GK2	0,935785	1,908535	0,809961	0,451902	0,549285	-7,04945
ESCO1	0,112913	8,070552	0,809359	0,45222	0,549625	-7,04997
PTPN4	0,114808	7,862467	0,808844	0,452493	0,549908	-7,0504
LMAN2L	-0,28387	3,883671	-0,80825	0,452806	0,550242	-7,05091
SMARCD1	-0,1506	5,761127	-0,80815	0,452862	0,550262	-7,051
RPP30	0,147176	6,301899	0,807893	0,452995	0,550377	-7,05121
THAP4	0,150283	4,632064	0,807105	0,453413	0,550837	-7,05188
ACBD3	0,125993	8,604145	0,805928	0,454037	0,551548	-7,05288
KCTD3	-0,28891	4,563585	-0,80294	0,455624	0,553393	-7,05542
VCAM1	0,881285	2,709761	0,802918	0,455634	0,553393	-7,05543
ACTN1	0,158377	8,661867	0,802631	0,455787	0,553531	-7,05568
SYCP2L	-0,69013	2,22635	-0,80218	0,456025	0,553772	-7,05606
GEN1	-0,3551	4,918232	-0,80204	0,456101	0,553775	-7,05618
ZNF436	-1,01815	3,409221	-0,80203	0,456106	0,553775	-7,05618
SP1	-0,13123	7,36494	-0,80153	0,456372	0,554052	-7,05661
ZNF217	-0,12326	8,716412	-0,80106	0,456623	0,554309	-7,05701
CHCHD2	-0,13279	9,134058	-0,80067	0,45683	0,554512	-7,05733
PHIP	-0,11328	9,486623	-0,80057	0,456881	0,554526	-7,05742
C4orf46	-0,3824	4,889558	-0,79996	0,457209	0,554877	-7,05794

ATP6V1G1	-0,09906	10,16251	-0,79895	0,457745	0,555479	-7,05878
COX19	0,123144	7,672807	0,798809	0,457822	0,555512	-7,05891
NMT2	0,179832	7,17018	0,798756	0,45785	0,555512	-7,05895
WIPF1	0,102128	10,37191	0,798513	0,45798	0,555622	-7,05916
MGA	0,098925	7,742371	0,797779	0,458372	0,556049	-7,05977
CEP63	0,16039	7,809179	0,797532	0,458503	0,556161	-7,05998
PRRC2A	0,246011	5,339274	0,797423	0,458562	0,556184	-7,06007
RTP4	0,324699	5,208654	0,797178	0,458693	0,556295	-7,06028
CUEDC2	-0,70582	4,348188	-0,79659	0,459004	0,556626	-7,06077
ZNF672	-0,66157	4,215663	-0,79651	0,459047	0,55663	-7,06084
MIPEP	-0,51988	3,92236	-0,79599	0,459327	0,556921	-7,06128
MTMR8	-0,40961	2,204803	-0,79585	0,459403	0,556965	-7,0614
ZER1	0,424953	4,647688	0,794383	0,460187	0,557868	-7,06263
PEX2	0,177652	6,176977	0,794184	0,460293	0,557949	-7,0628
CRISP3	-0,65909	1,996213	-0,79366	0,460573	0,558241	-7,06323
SMC3	0,106537	9,726639	0,793119	0,460864	0,558545	-7,06369
DHX16	0,133724	6,599056	0,79273	0,461072	0,558743	-7,06401
METTL14	0,136342	7,562288	0,792667	0,461107	0,558743	-7,06407
CLCN6	-0,17887	5,461142	-0,79246	0,461219	0,558832	-7,06424
COX17	-0,18782	6,5633	-0,79204	0,461442	0,559055	-7,06459
GNA13	-0,14936	8,012752	-0,7912	0,461896	0,55909	-7,0653
TYMS	-0,92481	3,147501	-0,79113	0,46193	0,55909	-7,06535
ACY1	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
ANGPTL3	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
ATP8B5P	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
DCHS1	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
HNRNPCL1	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
MCF2L-AS1	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
NDST4	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
PABPC1P2	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
PKP2	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
SV2C	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
TMIE	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
TRIM34	-0,33333	0,5	-0,79095	0,462026	0,55909	-7,0655
DYNLRB1	0,147112	6,605598	0,790789	0,462114	0,559143	-7,06564
PSMA2	0,168749	7,402461	0,790725	0,462149	0,559143	-7,06569
VBP1	-0,15713	7,010006	-0,78973	0,462682	0,55974	-7,06652
UBE2C	0,407464	1,92704	0,789607	0,462749	0,559774	-7,06663
SEC23IP	-0,12251	7,652407	-0,78946	0,462831	0,559825	-7,06675
PIP5K1B	0,674709	3,663115	0,789301	0,462914	0,559877	-7,06688
ELOVL4	-0,79635	2,3906	-0,78891	0,463122	0,560082	-7,06721
SOAT1	-0,0984	7,987247	-0,78823	0,463492	0,56048	-7,06778
RCBTB1	-0,4553	4,724101	-0,78802	0,463603	0,560567	-7,06795
AACS	-0,27104	5,436326	-0,78784	0,4637	0,560598	-7,0681
RECQL4	-0,59254	2,42704	-0,78782	0,463708	0,560598	-7,06812
PHF8	0,148708	7,127933	0,787512	0,463876	0,560753	-7,06838
TNFAIP8	-0,10548	10,35674	-0,78731	0,463983	0,560835	-7,06854
FAM185A	-0,72331	1,997284	-0,78706	0,464117	0,560937	-7,06875
DNAJC24	0,225446	5,126609	0,787009	0,464147	0,560937	-7,06879
PET117	-0,27126	4,404749	-0,78647	0,464436	0,561239	-7,06924
ECH1	-0,18988	6,449365	-0,78631	0,464523	0,561295	-7,06938
C6orf106	-0,11933	8,079215	-0,78523	0,465108	0,561954	-7,07028

TIMM8B	-0,133	7,339037	-0,78503	0,465213	0,562033	-7,07044
ERICH1	0,1	7,645704	0,784451	0,465527	0,562364	-7,07092
C2orf69	-0,11128	7,152738	-0,78433	0,465591	0,562393	-7,07102
RFX2	0,248115	3,414179	0,783693	0,465936	0,562746	-7,07155
IFRD2	-0,16625	4,930762	-0,78364	0,465962	0,562746	-7,07159
GALC	-0,16912	6,544453	-0,78292	0,466353	0,56317	-7,07219
ZFP1	-0,13267	5,337296	-0,78279	0,466422	0,563205	-7,0723
ADH5	0,144226	7,514849	0,781845	0,466935	0,563776	-7,07309
PRPF4B	-0,12644	9,690888	-0,78079	0,467507	0,564419	-7,07396
ARAP3	-0,22995	5,334267	-0,78061	0,467601	0,564484	-7,0741
AGA	-0,20263	6,530571	-0,77964	0,46813	0,564761	-7,07491
ADCK5	-0,57899	0,817815	-0,77955	0,46818	0,564761	-7,07499
CCDC134	-0,57899	0,817815	-0,77955	0,46818	0,564761	-7,07499
DND1	0,578989	0,817815	0,779545	0,46818	0,564761	-7,07499
GFPT2	0,578989	0,817815	0,779545	0,46818	0,564761	-7,07499
HNF1B	0,578989	0,817815	0,779545	0,46818	0,564761	-7,07499
IGSF9B	0,578989	0,817815	0,779545	0,46818	0,564761	-7,07499
RAB42	-0,57899	0,817815	-0,77955	0,46818	0,564761	-7,07499
PPP1R12B	0,164238	7,065699	0,779527	0,46819	0,564761	-7,075
CDK10	0,164627	5,386953	0,779163	0,468387	0,56495	-7,0753
IFT80	0,216303	5,883066	0,778528	0,468732	0,565318	-7,07583
SETD4	-0,35054	4,88137	-0,77835	0,468826	0,565383	-7,07597
ZSWIM4	-0,44447	2,436856	-0,77821	0,468904	0,565429	-7,07609
CD99	0,125857	7,623846	0,777148	0,469481	0,566076	-7,07697
YY1	0,093784	10,12624	0,775979	0,470116	0,566794	-7,07793
BIK	-0,9183	1,792481	-0,77549	0,470382	0,566975	-7,07833
MDGA1	0,428196	4,119705	0,775268	0,470503	0,566975	-7,07852
C6orf10	0,773976	0,720321	0,775186	0,470547	0,566975	-7,07859
GPR20	0,773976	0,720321	0,775186	0,470547	0,566975	-7,07859
KIAA1614	0,773976	0,720321	0,775186	0,470547	0,566975	-7,07859
SRCIN1	0,773976	0,720321	0,775186	0,470547	0,566975	-7,07859
WIF1	0,773976	0,720321	0,775186	0,470547	0,566975	-7,07859
HDC	-0,2207	5,288899	-0,7744	0,470973	0,56744	-7,07923
SLC35F1	0,578989	1,151148	0,774229	0,471068	0,567506	-7,07937
DLEU2	0,166194	6,012975	0,773953	0,471219	0,567639	-7,0796
HP1BP3	-0,1053	9,541024	-0,77387	0,471262	0,567643	-7,07967
MRPL48	0,194168	5,553344	0,773619	0,4714	0,567761	-7,07987
ATG13	0,193052	6,16478	0,77336	0,471541	0,567882	-7,08009
UBN1	0,100227	9,51952	0,772544	0,471986	0,568369	-7,08076
ZMYND11	0,120286	8,385701	0,771769	0,472409	0,56883	-7,08139
ELMO2	0,126409	7,200482	0,771058	0,472796	0,569231	-7,08198
S1PR4	-0,64794	6,040449	-0,77101	0,472822	0,569231	-7,08201
GKAP1	0,152535	6,702527	0,770609	0,473042	0,569447	-7,08234
ANKRD44	-0,11326	9,876334	-0,76854	0,474171	0,570758	-7,08403
SLAIN2	0,100695	8,652377	0,768459	0,474217	0,570764	-7,0841
RASA1	0,155403	6,579375	0,768116	0,474404	0,570941	-7,08438
TGOLN2	-0,1003	9,373956	-0,76803	0,474453	0,570951	-7,08446
MRPL43	-0,20087	6,608943	-0,76768	0,474645	0,570978	-7,08474
CCDC121	-0,63563	0,984482	-0,76762	0,474677	0,570978	-7,08479
CCL19	0,63563	0,984482	0,767618	0,474677	0,570978	-7,08479
FGFR2	-0,63563	0,984482	-0,76762	0,474677	0,570978	-7,08479
SERINC2	-0,63563	0,984482	-0,76762	0,474677	0,570978	-7,08479

COPA	0,093155	8,365373	0,767355	0,474821	0,571102	-7,085
HDHD2	0,125226	6,138975	0,764916	0,476158	0,572661	-7,08699
PCGF5	-0,11586	8,770334	-0,76483	0,476204	0,572668	-7,08706
XYLT1	0,101642	7,566186	0,764531	0,476369	0,572818	-7,08731
CDH8	0,912322	1,317815	0,764147	0,476579	0,573022	-7,08762
CYSLTR1	-0,11166	8,067157	-0,76385	0,476742	0,573169	-7,08786
IPP	-0,50486	4,18064	-0,76367	0,47684	0,573238	-7,08801
CD2AP	0,141673	7,308664	0,762748	0,477348	0,5738	-7,08876
MTHFR	-0,22581	6,284436	-0,76266	0,477397	0,57381	-7,08883
PCCA	-0,75209	3,590661	-0,76182	0,477857	0,574314	-7,08951
TRIP12	0,110695	9,388321	0,761106	0,478251	0,574739	-7,09009
LPCAT1	0,1643	6,132469	0,760933	0,478346	0,574805	-7,09023
CEBPD	-0,20832	6,927947	-0,76084	0,478395	0,574814	-7,0903
BRMS1	-0,1124	5,481672	-0,75998	0,478869	0,575335	-7,091
VCPIP1	0,148151	8,175327	0,759092	0,479361	0,575876	-7,09172
ZNF341	-0,55936	3,51776	-0,75902	0,479401	0,575876	-7,09178
KIFC2	-0,39188	4,295676	-0,75843	0,479725	0,576216	-7,09226
RPA2	0,203211	6,931224	0,758239	0,479831	0,576294	-7,09241
SNAP47	-0,3489	5,525814	-0,75739	0,480301	0,576809	-7,0931
TOR3A	-0,17671	6,662225	-0,7565	0,48079	0,577154	-7,09382
WRAP53	-0,49514	2,021547	-0,7561	0,48101	0,577154	-7,09414
CYP2R1	-0,48297	3,942579	-0,756	0,481065	0,577154	-7,09422
ANKRD29	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
ARPP21	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
C18orf63	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
C9orf84	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
DAB1	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
DSG1	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
GHRL	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
MFSD2B	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
NOX4	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
PDZD7	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
SPA17	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
SPATA3	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
TTR	0,723308	0,694988	0,755614	0,48128	0,577154	-7,09453
CCL3L1	0,394683	5,545031	0,755591	0,481293	0,577154	-7,09455
SLC25A28	-0,28351	5,892891	-0,7555	0,481342	0,577154	-7,09462
NUDCD1	0,106753	6,568772	0,755464	0,481363	0,577154	-7,09465
GNAS	-0,09549	9,482927	-0,75489	0,481682	0,577488	-7,09512
DYNC2H1	-0,46144	4,705703	-0,75439	0,481959	0,57777	-7,09552
NISCH	-0,16036	6,369717	-0,75399	0,482177	0,577983	-7,09584
TNIP1	0,116893	7,980143	0,752543	0,48298	0,578896	-7,097
BRWD3	-0,10298	7,86933	-0,75203	0,483265	0,579189	-7,09742
ERCC8	0,407464	3,108481	0,751626	0,483488	0,579407	-7,09774
TMEM80	-0,1675	5,504644	-0,75145	0,483587	0,579477	-7,09788
MIF	0,531668	4,880343	0,751289	0,483675	0,579532	-7,09801
LZIC	-0,2384	6,676847	-0,75049	0,484116	0,580012	-7,09865
ETFB	0,237075	5,914524	0,750259	0,484247	0,580119	-7,09884
NCOA7	-0,09741	8,674516	-0,75007	0,484349	0,580193	-7,09899
TRIB2	0,172922	7,898007	0,749574	0,484627	0,580446	-7,09939
TCEAL1	0,096162	5,651647	0,749546	0,484642	0,580446	-7,09941
COG7	0,324062	4,523966	0,749432	0,484706	0,580473	-7,0995

GLMN	0,196477	5,769579	0,749302	0,484778	0,58051	-7,0996
FAM189B	-0,31705	5,426436	-0,74916	0,484855	0,580553	-7,09971
SLC9A8	-0,18173	5,303553	-0,74865	0,485139	0,580844	-7,10012
ATAD2B	0,123349	8,250629	0,74819	0,485396	0,581103	-7,10049
USP16	0,128853	9,17249	0,747813	0,485606	0,581305	-7,1008
MRPS5	0,135931	7,921684	0,747652	0,485696	0,581362	-7,10092
NADSYN1	0,158227	6,313613	0,747193	0,485951	0,581561	-7,10129
SKI	-0,09521	8,090163	-0,74719	0,485952	0,581561	-7,10129
MOB3A	-0,18802	6,436791	-0,74713	0,485985	0,581561	-7,10134
ABLIM2	-0,33333	1,028321	-0,74612	0,486551	0,582139	-7,10215
STAG3L1	-0,33333	1,028321	-0,74612	0,486551	0,582139	-7,10215
HIF1AN	0,126535	7,316303	0,745644	0,486814	0,582405	-7,10253
ENO2	-0,62033	5,891497	-0,74528	0,487016	0,582597	-7,10282
UBR7	-0,13385	6,484367	-0,7451	0,487116	0,582667	-7,10296
ZC3H12A	0,114437	6,46478	0,744733	0,487321	0,582864	-7,10325
AIFM2	-0,14088	4,716168	-0,74457	0,48741	0,582921	-7,10338
HCP5	0,139771	7,078966	0,743915	0,487778	0,583305	-7,10391
SLC25A6	-0,11227	9,036722	-0,74385	0,487814	0,583305	-7,10396
WNT5B	-0,60245	1,16288	-0,74331	0,488116	0,583568	-7,10439
SRSF12	0,602452	1,16288	0,743309	0,488116	0,583568	-7,10439
LRCH3	0,116435	7,551256	0,743116	0,488224	0,583608	-7,10454
ACAA1	0,143891	6,697311	0,7431	0,488232	0,583608	-7,10455
JAZF1	-0,16431	7,159532	-0,74281	0,488397	0,583755	-7,10479
TRDMT1	0,334308	4,815635	0,742701	0,488455	0,583776	-7,10487
SERBP1	0,098837	9,666694	0,742611	0,488506	0,583787	-7,10494
ERGIC3	0,130397	6,285884	0,742278	0,488692	0,58396	-7,10521
MATR3	-0,25432	2,915934	-0,74119	0,489302	0,58464	-7,10607
PPIP5K1	-0,80501	1,704803	-0,7407	0,489573	0,584913	-7,10646
MRPS16	0,139924	7,406803	0,740465	0,489705	0,585022	-7,10665
ZNF584	-0,70231	2,358608	-0,73995	0,489992	0,585316	-7,10705
MTMR1	0,115704	6,749232	0,739279	0,490369	0,585642	-7,10759
NUS1	0,191736	5,942507	0,739243	0,49039	0,585642	-7,10762
C16orf54	0,16135	7,316885	0,739237	0,490393	0,585642	-7,10762
PTGES3	-0,09454	9,793227	-0,73917	0,490431	0,585642	-7,10767
STYX	-0,10641	7,573399	-0,73905	0,490499	0,585673	-7,10777
RAD52	0,509736	4,309628	0,738807	0,490634	0,585785	-7,10796
BCOR	-0,13459	8,082069	-0,73841	0,490858	0,585968	-7,10828
TMEM25	-0,09985	3,821643	-0,73839	0,49087	0,585968	-7,10829
EML5	0,369739	4,33044	0,73822	0,490963	0,586029	-7,10843
GPSM3	0,205621	8,171233	0,737895	0,491145	0,586168	-7,10868
GATM	-0,90978	3,311511	-0,73787	0,491162	0,586168	-7,10871
YWHAQ	0,118779	7,891096	0,737178	0,491547	0,58655	-7,10925
PSME4	0,109747	8,125325	0,737103	0,491589	0,58655	-7,10931
LONP1	0,189696	6,133365	0,737072	0,491606	0,58655	-7,10933
MSMO1	0,191412	6,258717	0,736712	0,491808	0,586741	-7,10962
ZFAND4	-0,23378	5,112526	-0,73574	0,492356	0,587345	-7,11039
NR1H3	-0,18684	3,832334	-0,73493	0,492811	0,587838	-7,11103
NPDC1	-0,83565	2,941112	-0,73481	0,492875	0,587865	-7,11112
KIF16B	-0,34813	5,716349	-0,73399	0,493339	0,588368	-7,11177
C2orf88	0,352965	3,747897	0,733425	0,493656	0,588697	-7,11221
CEP164	-0,14227	6,729466	-0,73279	0,494011	0,589071	-7,11271
PSMD9	-0,1673	6,322925	-0,73148	0,494752	0,589631	-7,11374

EPB41L1	0,666667	0,666667	0,731442	0,494772	0,589631	-7,11377
KLHDC9	0,666667	0,666667	0,731442	0,494772	0,589631	-7,11377
RNF112	0,666667	0,666667	0,731442	0,494772	0,589631	-7,11377
ZC2HC1C	0,666667	0,666667	0,731442	0,494772	0,589631	-7,11377
TMEM238	0,666667	0,666667	0,731442	0,494772	0,589631	-7,11377
TSPAN6	-0,66667	0,666667	-0,73144	0,494772	0,589631	-7,11377
CYHR1	0,169027	5,707342	0,730476	0,495317	0,590223	-7,11453
TCF3	-0,09015	7,402573	-0,73034	0,495396	0,590223	-7,11464
C8orf76	-0,15053	6,058233	-0,73032	0,495407	0,590223	-7,11465
FIZ1	0,301046	3,346761	0,73026	0,495439	0,590223	-7,1147
DNTTIP1	-0,19059	6,292701	-0,73019	0,495478	0,590223	-7,11475
TEX26-AS1	0,723308	1,028321	0,729133	0,496075	0,590792	-7,11558
TRPV4	-0,72331	1,028321	-0,72913	0,496075	0,590792	-7,11558
PPP1R11	-0,1665	6,573661	-0,7291	0,496096	0,590792	-7,11561
NAF1	-0,11436	5,843545	-0,72905	0,496123	0,590792	-7,11565
MAPT	0,397548	2,908535	0,728731	0,496301	0,590955	-7,11589
MYO9A	-0,10036	7,483463	-0,7284	0,496488	0,591126	-7,11615
VSIG1	0,178684	4,457105	0,728041	0,496692	0,591319	-7,11643
GIT1	0,143193	4,877064	0,727894	0,496774	0,591368	-7,11655
CIT	-0,38998	1,194988	-0,72771	0,496878	0,591442	-7,11669
TMEM161A	-0,42619	4,769757	-0,72699	0,497285	0,591877	-7,11725
HMGXB3	0,289423	5,55992	0,726777	0,497406	0,591971	-7,11742
JOSD2	-0,66667	1,107309	-0,7265	0,497562	0,592106	-7,11764
GPR27	-0,25732	3,838421	-0,72568	0,498027	0,59261	-7,11828
MICAL1	0,181121	5,150944	0,725252	0,498269	0,592808	-7,11861
ZNF440	-0,45962	3,674939	-0,7251	0,498357	0,592808	-7,11873
CDC25A	0,881285	1,881285	0,725039	0,49839	0,592808	-7,11878
KIAA0232	0,136316	7,267274	0,725022	0,498399	0,592808	-7,11879
WDR46	0,162186	6,219322	0,725016	0,498403	0,592808	-7,1188
HTR1F	-0,80715	1,672696	-0,72423	0,498849	0,593288	-7,11941
DEXI	0,231986	5,622113	0,724016	0,498969	0,593381	-7,11957
MID1IP1	0,152622	6,156559	0,723366	0,499338	0,59377	-7,12008
TGDS	0,347765	5,168897	0,723209	0,499427	0,593826	-7,1202
UBE2R2	0,097342	8,897689	0,722656	0,499741	0,594149	-7,12063
ERBB2	-0,48159	2,159093	-0,72192	0,500161	0,594598	-7,12121
ANP32B	-0,11608	10,21895	-0,72051	0,50096	0,595498	-7,1223
ARV1	-0,14961	5,871775	-0,7197	0,501419	0,595994	-7,12293
SIGLEC12	-0,69013	2,388159	-0,71942	0,50158	0,596135	-7,12315
WNT10B	-0,69013	2,22635	-0,71926	0,50167	0,596192	-7,12327
TMEM91	-0,34813	3,550493	-0,7191	0,501762	0,596251	-7,12339
GDA	0,653119	1,716535	0,718956	0,501843	0,596297	-7,1235
TRIT1	0,126171	6,157786	0,71875	0,501961	0,596387	-7,12366
NUDT17	0,515427	3,25014	0,717344	0,502761	0,597288	-7,12475
DUSP5	-0,1962	6,586122	-0,71692	0,503001	0,597522	-7,12508
ZSWIM3	-0,86462	3,210775	-0,71667	0,503147	0,597646	-7,12527
HYI	-0,58496	1,959148	-0,71601	0,503521	0,59804	-7,12578
LNPEP	-0,09369	9,240669	-0,71587	0,503604	0,598087	-7,12589
SLMAP	0,128267	7,948252	0,715793	0,503646	0,598087	-7,12595
PLP2	-0,12512	8,035436	-0,71508	0,504052	0,59849	-7,1265
FBXO30	0,115887	5,880096	0,71505	0,504069	0,59849	-7,12652
PPP2R1B	0,103322	5,750834	0,714887	0,504162	0,598519	-7,12665
PARP16	0,133024	5,643088	0,714858	0,504179	0,598519	-7,12667

KHDRBS1	0,090063	9,678062	0,714702	0,504268	0,598575	-7,12679
MLH1	0,130092	7,008251	0,713903	0,504724	0,599066	-7,1274
SFXN3	-0,55119	5,174075	-0,71374	0,504816	0,599124	-7,12753
CRIP1	-0,41609	3,470679	-0,71324	0,505105	0,599417	-7,12792
IGFBP2	-0,73548	2,267888	-0,71312	0,505175	0,59945	-7,12801
ATP6V1H	0,140324	7,388398	0,712979	0,505252	0,599492	-7,12811
BRIP1	-0,43093	2,98944	-0,71257	0,505487	0,599673	-7,12843
TSC22D2	-0,1063	7,354402	-0,71256	0,505491	0,599673	-7,12844
OLFM4	-0,85537	2,849946	-0,71214	0,505734	0,599912	-7,12876
NT5C	0,196502	5,237337	0,711882	0,50588	0,599998	-7,12896
MTFP1	-0,40723	5,198953	-0,71186	0,505891	0,599998	-7,12897
ADSS	-0,11392	7,832794	-0,71164	0,506021	0,600101	-7,12915
TSHR	0,986453	2,216535	0,711011	0,506379	0,600437	-7,12963
DDX49	-0,11804	5,679124	-0,71099	0,506389	0,600437	-7,12964
TOMM34	0,151874	6,485609	0,710604	0,506612	0,600651	-7,12994
ADAM23	0,559357	4,81042	0,709321	0,507347	0,601472	-7,13092
EPC1	0,091677	9,766622	0,709092	0,507478	0,601577	-7,1311
TXNL4A	-0,11584	7,895556	-0,70875	0,507673	0,601714	-7,13136
KIAA1324L	-0,39931	3,462291	-0,70874	0,507679	0,601714	-7,13137
HUS1	-0,2426	5,417358	-0,70861	0,507755	0,601753	-7,13147
DSP	0,561499	2,216535	0,70837	0,507892	0,601866	-7,13165
PRR14	-0,27485	5,39835	-0,70824	0,507966	0,601903	-7,13175
GGA3	-0,102	6,522264	-0,70815	0,508019	0,601916	-7,13182
PTK2B	0,162357	7,009592	0,70742	0,508437	0,60236	-7,13238
PRRT3	0,754345	1,679469	0,707175	0,508578	0,602477	-7,13256
UNC13C	0,540258	2,929222	0,706939	0,508714	0,60257	-7,13274
PCIF1	-0,54647	4,249655	-0,70689	0,508742	0,60257	-7,13278
PKNOX1	0,153558	6,26401	0,706699	0,508852	0,60265	-7,13293
WNK1	-0,09006	9,806774	-0,70501	0,509822	0,603748	-7,13421
MIB2	-0,57416	4,090208	-0,70469	0,510005	0,603913	-7,13445
TUBGCP4	-0,14548	5,161389	-0,7043	0,510233	0,604134	-7,13476
CENPF	0,233662	4,533597	0,703752	0,510546	0,604425	-7,13517
PANK4	-0,14647	5,021897	-0,70372	0,510565	0,604425	-7,1352
ZMYM3	-0,12991	7,147295	-0,70313	0,510904	0,604733	-7,13564
PAFAH1B2	0,122339	8,243144	0,70312	0,51091	0,604733	-7,13565
HDAC10	-0,34353	3,548192	-0,70296	0,511003	0,604791	-7,13577
KCNC4	-0,43745	3,9412	-0,70273	0,511136	0,604899	-7,13595
HNRNPA2B	0,087958	11,10502	0,702155	0,511467	0,605191	-7,13639
SUN1	0,239635	7,174429	0,702151	0,511469	0,605191	-7,13639
ZNF620	0,935785	1,908535	0,701897	0,511615	0,605313	-7,13658
TTC8	-0,34688	3,323844	-0,70182	0,511657	0,605313	-7,13664
ERCC5	0,360286	4,147224	0,701686	0,511737	0,605356	-7,13674
TMUB2	-0,34761	5,823684	-0,70154	0,51182	0,605404	-7,13685
BUB1B	-0,44064	1,415309	-0,70142	0,511889	0,605435	-7,13694
WRNIP1	-0,11767	7,879122	-0,70128	0,511969	0,605478	-7,13705
PDE8A	-0,20205	5,799273	-0,70069	0,512312	0,605676	-7,1375
C1QTNF7	0,602452	0,634559	0,700624	0,51235	0,605676	-7,13755
DEFB118	0,602452	0,634559	0,700624	0,51235	0,605676	-7,13755
DPY19L1P1	0,602452	0,634559	0,700624	0,51235	0,605676	-7,13755
SERINC4	0,602452	0,634559	0,700624	0,51235	0,605676	-7,13755
RPGRIP1L	-0,93578	3,191201	-0,70048	0,512431	0,605721	-7,13765
COX6A1	0,15131	6,773151	0,699976	0,512724	0,606017	-7,13804

ZMAT5	0,383608	2,83735	0,699753	0,512853	0,606118	-7,13821
RRP1	-0,1462	4,399517	-0,6995	0,513	0,606242	-7,1384
TSPAN2	0,156835	5,814156	0,698773	0,513419	0,606686	-7,13895
NEBL	-0,59254	1,232053	-0,69852	0,513566	0,606758	-7,13914
TTC23	0,592536	1,232053	0,698519	0,513566	0,606758	-7,13914
OTOGL	0,740797	1,232053	0,698146	0,513781	0,606962	-7,13942
ZRANB2-AS	0,828476	1,188214	0,698016	0,513857	0,607	-7,13952
EIF1AD	0,188334	6,406839	0,697279	0,514283	0,607453	-7,14008
RINT1	-0,21449	5,604058	-0,69704	0,514419	0,607563	-7,14025
HIST1H2AC	0,526179	2,339362	0,696778	0,514573	0,607694	-7,14045
NIN	-0,1014	9,427875	-0,6966	0,514676	0,607765	-7,14059
GEMIN5	0,112427	5,490474	0,696418	0,514782	0,607839	-7,14073
LIG1	0,17485	6,300668	0,696234	0,514888	0,607896	-7,14086
THRAP3	0,10325	9,488648	0,696185	0,514916	0,607896	-7,1409
KLHL2	-0,13227	6,842045	-0,69566	0,515223	0,608208	-7,1413
TMEM120A	0,136028	6,272342	0,695485	0,515322	0,608273	-7,14143
HIC2	-0,13974	6,461758	-0,69496	0,515627	0,608582	-7,14182
C12orf66	-0,63008	4,345958	-0,69468	0,515787	0,60872	-7,14203
FLOT2	0,282533	6,355768	0,694556	0,51586	0,608756	-7,14213
LINC00426	-0,59999	4,278875	-0,69439	0,515954	0,608817	-7,14225
PIP5K1C	-0,38783	3,771023	-0,6942	0,516067	0,608899	-7,1424
SLC39A14	0,252086	4,221177	0,693748	0,516329	0,609133	-7,14274
SELPLG	0,148714	7,466804	0,693708	0,516352	0,609133	-7,14277
TMEM135	-0,23072	4,599099	-0,69337	0,516549	0,609315	-7,14302
FBXL19-AS1	0,900147	1,645061	0,692868	0,51684	0,609607	-7,1434
GPR63	-0,47168	0,76416	-0,6922	0,517228	0,609963	-7,1439
OR5A1	0,471679	0,76416	0,6922	0,517228	0,609963	-7,1439
URB1	-0,44064	4,181712	-0,69187	0,51742	0,610138	-7,14415
BAK1	-0,62093	3,718467	-0,69173	0,517501	0,610184	-7,14425
SRF	0,127319	7,958929	0,69146	0,517657	0,610317	-7,14445
PADI4	-0,66667	2,043094	-0,69132	0,51774	0,610364	-7,14456
SRSF11	0,097911	10,92237	0,691231	0,517791	0,610372	-7,14462
CCDC144A	0,912322	0,984482	0,690761	0,518064	0,610592	-7,14498
GPR61	0,912322	0,984482	0,690761	0,518064	0,610592	-7,14498
SWT1	-0,32467	5,014742	-0,68994	0,518539	0,611101	-7,14559
PHKB	0,103165	7,687569	0,689455	0,518824	0,611386	-7,14595
WDR25	0,249864	3,527677	0,689273	0,51893	0,61146	-7,14609
COPS6	-0,12997	6,093506	-0,68829	0,5195	0,61208	-7,14682
TTC27	-0,19819	4,52896	-0,68812	0,519599	0,612146	-7,14695
PTP4A2	-0,08905	10,67266	-0,68765	0,519876	0,612422	-7,1473
FADS3	-0,36233	4,585737	-0,68751	0,519954	0,612462	-7,1474
APOBEC3C	-0,1827	6,901935	-0,68726	0,520104	0,612589	-7,1476
NLGN4Y	-0,63563	1,317815	-0,68679	0,520374	0,612834	-7,14794
MAN2A2	-0,1083	6,566233	-0,68673	0,520412	0,612834	-7,14799
FANCL	-0,26263	6,289334	-0,68668	0,520443	0,612834	-7,14803
KSR2	0,686298	1,204803	0,686299	0,520663	0,613042	-7,14831
ZGLP1	-0,60245	1,301226	-0,68618	0,520732	0,613053	-7,1484
SSTR2	0,280981	4,741733	0,686134	0,520759	0,613053	-7,14843
ATP11B	-0,1732	8,116264	-0,68584	0,520932	0,613206	-7,14865
SOX7	0,881285	1,63563	0,68567	0,52103	0,61327	-7,14878
CBX1	0,111822	7,620163	0,685307	0,521242	0,613428	-7,14905
SLC27A1	-0,40669	3,632585	-0,68529	0,521251	0,613428	-7,14906

ZBTB39	0,203223	5,726233	0,684804	0,521535	0,613712	-7,14942
ADARB2	0,684156	1,92704	0,684142	0,521922	0,614115	-7,14991
TOE1	-0,2277	5,270673	-0,6839	0,522061	0,614228	-7,15009
HIST2H2AC	-0,62591	2,420267	-0,68275	0,522734	0,614969	-7,15094
CUBN	0,711419	3,386629	0,682533	0,522863	0,615069	-7,15111
FAM151B	0,602452	1,691201	0,682353	0,522968	0,61514	-7,15124
MPI	0,177875	5,572164	0,682282	0,52301	0,61514	-7,15129
AASDH	-0,23897	6,393278	-0,68214	0,523095	0,615188	-7,1514
NEIL2	-0,1825	4,206013	-0,6816	0,523409	0,615506	-7,1518
ALKBH7	0,15181	5,446093	0,68043	0,524095	0,616199	-7,15266
IPO9	-0,11221	7,01902	-0,68042	0,524098	0,616199	-7,15267
GRIA4	0,214619	2,830618	0,680371	0,524129	0,616199	-7,15271
SLFN13	-0,19476	5,566876	-0,67998	0,524359	0,616419	-7,153
ZNF660	0,440643	2,610296	0,679693	0,524527	0,616549	-7,15321
RWDD4	0,274529	5,434526	0,67964	0,524557	0,616549	-7,15325
TFPI2	-0,91615	2,006029	-0,67956	0,524604	0,616552	-7,15331
CHAMP1	-0,16589	6,022672	-0,67811	0,525456	0,617503	-7,15438
DDA1	-0,16158	6,24807	-0,67783	0,52562	0,617644	-7,15458
RPF2	-0,12813	6,823936	-0,67703	0,526091	0,618146	-7,15517
CUL5	-0,08964	8,755445	-0,67645	0,52643	0,618493	-7,1556
RAD51D	-0,17262	4,664827	-0,67605	0,526668	0,618721	-7,1559
AKR1C3	-0,28267	2,689285	-0,67561	0,526926	0,618973	-7,15622
TOPBP1	-0,08494	7,968313	-0,67549	0,526996	0,619004	-7,15631
GPR137	-0,3568	3,662135	-0,67514	0,527203	0,619195	-7,15657
PERP	-0,7796	4,999706	-0,67439	0,527643	0,619614	-7,15712
ATXN7L2	-0,52832	0,930827	-0,67438	0,527647	0,619614	-7,15712
PSMD7	-0,11354	8,607115	-0,67393	0,527911	0,619872	-7,15745
ZNF684	-0,28689	3,24318	-0,67368	0,528058	0,61999	-7,15763
PSD4	0,160438	7,108875	0,67357	0,528125	0,61999	-7,15772
ZNF484	-0,16058	4,276529	-0,67354	0,528143	0,61999	-7,15774
FBXL14	0,440643	0,886988	0,67339	0,528231	0,61999	-7,15785
ST8SIA3	0,440643	0,886988	0,67339	0,528231	0,61999	-7,15785
STAG3L4	-0,27806	3,622769	-0,67276	0,528601	0,620335	-7,15831
DARS	0,122707	9,197171	0,672741	0,528613	0,620335	-7,15832
GADD45G	-0,85919	3,301167	-0,67206	0,529017	0,620758	-7,15882
GPR68	0,144255	6,296152	0,671231	0,529503	0,621278	-7,15943
EHD3	-0,66135	2,499941	-0,67085	0,52973	0,621492	-7,15971
CCDC85C	0,439271	3,371411	0,670442	0,529969	0,621721	-7,16
PCSK7	0,197353	6,886175	0,67004	0,530206	0,621948	-7,1603
MRPS35	0,105134	7,728691	0,669953	0,530258	0,621956	-7,16036
ST18	-0,44064	1,748642	-0,66938	0,530598	0,622274	-7,16078
FAM157B	-0,66667	1,389975	-0,66935	0,530617	0,622274	-7,1608
CAPRIN2	-0,17922	6,516485	-0,66926	0,530667	0,622281	-7,16087
ATP13A4	0,723308	1,223308	0,667242	0,53186	0,623601	-7,16234
CAMK2N1	-0,16202	5,911418	-0,66721	0,53188	0,623601	-7,16236
NBL1	-0,6977	1,651148	-0,66709	0,531948	0,623629	-7,16244
LSM7	0,157548	6,512701	0,666765	0,532143	0,62375	-7,16268
SWSAP1	0,262199	3,540706	0,666731	0,532162	0,62375	-7,16271
NUTF2	-0,1646	6,063618	-0,66669	0,532185	0,62375	-7,16273
TTC21B	0,118795	5,959968	0,666421	0,532346	0,623888	-7,16293
INPP4A	0,11507	7,41761	0,664314	0,533594	0,625273	-7,16446
USPL1	0,161114	6,577626	0,664278	0,533616	0,625273	-7,16449

KCTD13	0,281309	4,627985	0,664078	0,533735	0,625316	-7,16463
TMED4	0,137948	7,555292	0,664066	0,533742	0,625316	-7,16464
COPS3	-0,15111	6,488066	-0,66398	0,533792	0,625323	-7,1647
DLD	0,099923	7,308098	0,663881	0,533851	0,625341	-7,16477
HMOX2	-0,22718	5,746558	-0,66375	0,53393	0,625381	-7,16487
DHPS	-0,50514	3,829677	-0,6635	0,534079	0,625454	-7,16505
WWC2	0,175837	6,002758	0,663494	0,534081	0,625454	-7,16505
HSH2D	0,106965	5,094856	0,663401	0,534136	0,625468	-7,16512
B3GNTL1	0,457739	2,800285	0,663285	0,534205	0,625496	-7,16521
CASC4	0,095841	7,418102	0,663117	0,534305	0,625561	-7,16533
HSD17B6	0,834167	0,945404	0,662913	0,534426	0,625651	-7,16548
EFEMP2	-0,42101	2,179469	-0,66203	0,53495	0,626213	-7,16611
HIST1H2BJ	0,300155	2,452374	0,661415	0,535316	0,626589	-7,16656
IFI27L1	-0,82464	1,802297	-0,66057	0,535816	0,627122	-7,16717
KLHL25	-0,616	1,081976	-0,66019	0,536042	0,627284	-7,16744
SH3D21	-0,616	1,081976	-0,66019	0,536042	0,627284	-7,16744
PIEZO1	-0,24661	5,471095	-0,66007	0,536115	0,627316	-7,16753
VRK3	-0,1876	5,905258	-0,65993	0,5362	0,627364	-7,16763
NUP107	0,100005	7,772898	0,659364	0,536535	0,627704	-7,16804
MGAM	0,430727	3,948588	0,659215	0,536624	0,627756	-7,16814
TMUB1	-0,37155	4,085487	-0,65902	0,53674	0,627796	-7,16828
FBXO25	0,147507	6,797663	0,659008	0,536747	0,627796	-7,16829
TTC37	-0,11671	7,679634	-0,65886	0,536834	0,627825	-7,1684
DNASE1L3	-0,42101	1,317815	-0,65882	0,53686	0,627825	-7,16843
BTBD10	0,116251	6,441709	0,658422	0,537096	0,628049	-7,16871
KRT10	0,082985	7,665185	0,658113	0,53728	0,628212	-7,16894
ACYP1	-0,09482	6,199185	-0,65764	0,537563	0,628491	-7,16928
CDK2	0,152171	7,008403	0,657478	0,537658	0,62855	-7,16939
RASSF8	0,893941	2,641958	0,657322	0,537752	0,628607	-7,16951
SDHAF1	-0,87017	3,478177	-0,65652	0,538227	0,629111	-7,17008
ITCH	0,097894	6,718756	0,656272	0,538377	0,629235	-7,17026
C18orf21	-0,18204	5,11962	-0,65608	0,538494	0,629282	-7,1704
RPS6KA2	-0,16958	4,995227	-0,65603	0,538519	0,629282	-7,17043
ACADVL	-0,10941	7,031377	-0,65598	0,538552	0,629282	-7,17047
RNF11	0,114719	7,666034	0,655894	0,538603	0,62929	-7,17053
MAP4	0,147258	7,580359	0,655438	0,538875	0,629556	-7,17086
CASR	0,547952	1,273976	0,655211	0,539011	0,62959	-7,17102
SPIN2B	0,547952	1,273976	0,655211	0,539011	0,62959	-7,17102
LRRFIP2	0,102598	7,71172	0,655094	0,53908	0,62959	-7,1711
WBP4	-0,09496	7,280055	-0,65509	0,539082	0,62959	-7,1711
PKN2	0,116668	7,86063	0,654741	0,539291	0,629782	-7,17136
PTPN11	0,126937	7,831061	0,654555	0,539402	0,629803	-7,17149
LRRC37B	0,192201	5,07889	0,654489	0,539441	0,629803	-7,17154
ANKFY1	-0,08939	7,973676	-0,65449	0,539443	0,629803	-7,17154
AP3M2	0,128401	7,538992	0,65423	0,539596	0,629908	-7,17172
FKBP5	0,087724	7,938139	0,654187	0,539622	0,629908	-7,17175
NUAK2	-0,3036	5,004207	-0,65394	0,53977	0,630029	-7,17193
RABL3	-0,31248	5,497607	-0,65326	0,540178	0,630406	-7,17242
RASD1	0,63563	1,512803	0,653248	0,540183	0,630406	-7,17242
NACC2	-0,21614	6,254325	-0,65252	0,540618	0,63083	-7,17294
PRMT2	0,101817	9,486558	0,652492	0,540635	0,63083	-7,17296
SECISBP2	-0,10053	7,611816	-0,65241	0,540684	0,630836	-7,17302

SIGLEC15	0,735484	2,129543	0,652192	0,540815	0,630935	-7,17318
ZNF805	-0,22356	3,316685	-0,65136	0,541315	0,631467	-7,17377
SLC35B2	-0,1042	5,136566	-0,65119	0,541412	0,631491	-7,17389
TPP2	0,130584	8,149656	0,651129	0,541451	0,631491	-7,17393
SLC39A7	0,117696	7,652517	0,651097	0,54147	0,631491	-7,17396
SYCP1	0,740797	2,006029	0,649815	0,542237	0,632334	-7,17487
MRPS18A	0,160659	4,702949	0,648478	0,543039	0,633149	-7,17582
NUMA1	0,119837	9,049485	0,648471	0,543043	0,633149	-7,17582
ARHGEF12	0,336558	5,489605	0,648426	0,54307	0,633149	-7,17586
YTHDF3	0,095225	8,331342	0,648063	0,543288	0,633351	-7,17611
POPDC2	0,812468	1,934555	0,647945	0,543359	0,633381	-7,1762
TRMT1	0,233936	4,694357	0,647859	0,54341	0,633389	-7,17626
NHS	-0,44064	2,327631	-0,64763	0,543549	0,633455	-7,17642
LSM1	0,117914	6,139717	0,647614	0,543557	0,633455	-7,17643
VPS53	-0,17978	6,521559	-0,64741	0,54368	0,633547	-7,17658
BNIP1	-0,50869	1,802297	-0,64711	0,54386	0,633704	-7,17679
GALNT2	0,097301	7,117876	0,646747	0,544078	0,633906	-7,17705
LGALS8	0,085766	8,896644	0,646236	0,544385	0,63421	-7,17741
NLK	-0,23029	5,594146	-0,64556	0,54479	0,634606	-7,17789
DUSP7	0,098383	6,106947	0,645521	0,544814	0,634606	-7,17791
NTPCR	-0,10474	6,238387	-0,64526	0,54497	0,634736	-7,1781
CD72	-0,40177	3,33735	-0,64513	0,545048	0,634775	-7,17819
THAP7	0,162105	4,736554	0,644973	0,545144	0,634827	-7,1783
ZFAND5	-0,1313	9,184497	-0,64491	0,545183	0,634827	-7,17835
EIF5	-0,09258	9,476421	-0,64479	0,545256	0,63486	-7,17843
RHBDD2	-0,36431	5,063029	-0,64459	0,545376	0,634947	-7,17857
GRAP2	0,152632	7,228006	0,643896	0,545791	0,635378	-7,17906
DTD1	-0,14175	5,907743	-0,64323	0,546194	0,635794	-7,17953
FASLG	-0,45869	4,929568	-0,64259	0,546576	0,636169	-7,17998
SNHG10	0,329309	3,856926	0,642543	0,546606	0,636169	-7,18002
GKN1	0,686298	1,538136	0,642269	0,546771	0,636307	-7,18021
ANAPC13	-0,10045	7,172709	-0,6422	0,546814	0,636307	-7,18026
KCTD2	0,163589	5,87166	0,641078	0,547489	0,63704	-7,18105
RAB3GAP1	0,0968	7,727546	0,640932	0,547577	0,637089	-7,18115
EDN1	-0,66667	2,709761	-0,64071	0,547714	0,637196	-7,18131
IFT74	-0,29687	5,835934	-0,64017	0,548038	0,637521	-7,18169
BRF2	-0,20753	5,270783	-0,64009	0,548087	0,637525	-7,18174
SCIMP	-0,22183	5,045089	-0,63988	0,548211	0,637617	-7,18189
CA13	0,271378	3,412263	0,63978	0,548272	0,637635	-7,18196
LMF1	-0,65164	2,666608	-0,63971	0,548317	0,637635	-7,18201
EAF2	0,270446	5,624695	0,639396	0,548504	0,6378	-7,18223
MYL12B	-0,08691	9,836398	-0,63931	0,548553	0,637805	-7,18228
ZNF473	-0,62982	3,529531	-0,63905	0,548714	0,63794	-7,18247
MRM1	-0,79744	1,732053	-0,63878	0,548878	0,638039	-7,18266
ACSS1	0,177334	7,32714	0,638756	0,54889	0,638039	-7,18268
DEPDC5	-0,24171	4,751135	-0,63863	0,548967	0,638077	-7,18276
AIFM1	0,08331	6,249237	0,638377	0,549119	0,6382	-7,18294
CTR9	0,084315	8,847547	0,637193	0,549835	0,638956	-7,18377
PEF1	0,227069	5,134104	0,637053	0,549919	0,638956	-7,18387
SEC61A2	-0,67412	2,60618	-0,63705	0,549923	0,638956	-7,18387
PTPRJ	0,09385	8,719709	0,637002	0,54995	0,638956	-7,1839
SCIN	0,615999	1,748642	0,636803	0,55007	0,639043	-7,18404

MMGT1	-0,1261	7,313888	-0,63639	0,550321	0,639283	-7,18433
TAF8	0,107591	6,736198	0,63612	0,550483	0,639418	-7,18452
PML	-0,1227	6,490539	-0,63495	0,551191	0,640188	-7,18534
RBM8A	0,119517	8,759486	0,633396	0,552133	0,64123	-7,18642
ERCC2	-0,36437	2,7536	-0,63313	0,552294	0,641363	-7,1866
GOLGA2P5	0,241913	5,246806	0,632652	0,552584	0,641644	-7,18694
MIA3	-0,08941	8,176628	-0,63253	0,552657	0,641644	-7,18702
DPY19L1	0,090941	6,864491	0,632508	0,552672	0,641644	-7,18704
CPSF6	0,10252	8,202734	0,631987	0,552987	0,641958	-7,1874
UGCG	-0,07914	9,116876	-0,63149	0,553289	0,642255	-7,18774
UBE2D2	0,104626	9,291249	0,631238	0,553442	0,64238	-7,18792
TMEM218	-0,22315	5,066689	-0,63102	0,553572	0,642478	-7,18806
TMED2	-0,07856	9,070815	-0,63027	0,554031	0,642958	-7,18859
AP2M1	-0,10123	7,359964	-0,63008	0,554144	0,643037	-7,18872
TIPARP-AS1	-0,73023	2,401289	-0,62872	0,554975	0,643948	-7,18966
MRPS6	0,117643	8,025814	0,62754	0,55569	0,644725	-7,19048
ZNF354B	0,143994	4,586261	0,625847	0,556721	0,645779	-7,19164
RNFT2	-0,58496	2,228266	-0,62577	0,55677	0,645779	-7,1917
FBXO11	-0,10339	8,784231	-0,62557	0,556888	0,645779	-7,19183
HSD17B10	-0,11642	5,64275	-0,62554	0,556907	0,645779	-7,19185
ADAMTSL3	0,584963	1,292481	0,625526	0,556917	0,645779	-7,19186
ASZ1	0,740797	0,89872	0,625448	0,556964	0,645779	-7,19192
CRYGA	0,740797	0,89872	0,625448	0,556964	0,645779	-7,19192
KLF17	0,740797	0,89872	0,625448	0,556964	0,645779	-7,19192
TP53I11	-0,14493	4,716785	-0,62512	0,557164	0,645957	-7,19214
EXT2	0,183768	5,393225	0,624628	0,557464	0,646227	-7,19248
CA6	0,676582	1,866612	0,624521	0,55753	0,646227	-7,19255
HOXB4	-0,19834	4,926436	-0,62451	0,557534	0,646227	-7,19256
FLVCR1	-0,18821	5,221623	-0,62391	0,557905	0,646601	-7,19298
VPS33B	-0,5455	3,866535	-0,62384	0,557948	0,646601	-7,19302
ASCC3	0,077644	7,717745	0,62365	0,558061	0,646679	-7,19315
NSL1	-0,08233	7,914854	-0,62331	0,558266	0,646818	-7,19338
PBX2	-0,68061	2,8101	-0,6233	0,558272	0,646818	-7,19339
NAP1L5	-0,56191	3,90646	-0,62266	0,558665	0,64722	-7,19383
CXorf21	-0,2472	6,354517	-0,62245	0,558794	0,647299	-7,19398
MPHOSPH8	-0,07867	9,463911	-0,6224	0,558825	0,647299	-7,19401
EPS8L2	0,740797	2,232053	0,622097	0,559009	0,647459	-7,19422
PGAM1	-0,90877	3,698159	-0,62125	0,559524	0,648003	-7,19479
AUP1	-0,10608	7,705072	-0,62068	0,559877	0,648328	-7,19519
E4F1	-0,60715	4,462828	-0,62065	0,559897	0,648328	-7,19521
BEX5	-0,58405	4,308643	-0,62023	0,560152	0,648571	-7,1955
HIVEP3	-0,19636	6,183191	-0,6201	0,560228	0,648606	-7,19558
MEI1	0,23289	6,632394	0,619916	0,560343	0,648685	-7,19571
SCN8A	0,760429	2,103523	0,618552	0,561178	0,649598	-7,19664
CPEB2	0,202089	5,722	0,617506	0,561819	0,650284	-7,19735
ME3	0,666667	1,107309	0,617435	0,561862	0,650284	-7,1974
NBR2	0,576693	3,614107	0,617264	0,561967	0,650352	-7,19752
ATRIP	0,227506	3,829488	0,616911	0,562184	0,65055	-7,19776
IMP3	-0,11295	8,683203	-0,61665	0,562343	0,65068	-7,19793
RAB14	-0,09379	8,869656	-0,61639	0,562504	0,650814	-7,19811
ANKRD20A	0,60441	3,452609	0,614804	0,563476	0,651885	-7,19919
USP18	0,310962	2,836946	0,614397	0,563726	0,652121	-7,19946

HAR1A	-0,40961	2,204803	-0,61376	0,56412	0,652524	-7,1999
TMEM185E	-0,50272	4,938594	-0,61325	0,564432	0,652733	-7,20024
CCDC154	0,440643	1,081976	0,61316	0,564486	0,652733	-7,2003
CORIN	0,440643	1,081976	0,61316	0,564486	0,652733	-7,2003
HRH1	0,440643	1,081976	0,61316	0,564486	0,652733	-7,2003
MTPAP	-0,14988	6,328427	-0,6129	0,564648	0,652867	-7,20048
STX2	-0,14721	5,962346	-0,61235	0,564986	0,653205	-7,20085
ZNF589	-0,34505	4,243054	-0,61182	0,565313	0,653479	-7,20121
JAK1	-0,08425	10,48296	-0,61181	0,565316	0,653479	-7,20121
PATZ1	-0,09885	6,566092	-0,61157	0,565465	0,653561	-7,20138
PPIL3	0,106257	6,469959	0,611546	0,565479	0,653561	-7,20139
FZD6	-0,28481	3,078189	-0,61143	0,565553	0,653593	-7,20147
APOBEC3F	0,198469	4,391662	0,61016	0,566332	0,65444	-7,20232
KRT73	-0,72331	3,071415	-0,6099	0,566495	0,654574	-7,2025
POLL	-0,37952	4,665926	-0,60937	0,566817	0,654866	-7,20285
CBWD5	-0,30015	3,088004	-0,60934	0,56684	0,654866	-7,20288
BCAS4	0,302584	5,525999	0,60884	0,567145	0,655135	-7,20321
HBM	0,63563	1,512803	0,608807	0,567166	0,655135	-7,20323
PHOSPHO2	-0,45084	3,763656	-0,60706	0,568241	0,656324	-7,2044
ZNF230	-0,1732	4,973785	-0,60674	0,568442	0,656502	-7,20462
COX11	0,10633	6,075195	0,606471	0,568607	0,65654	-7,2048
C12orf60	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
DHRS4	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
ETV2	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
LRP2	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
NMNAT3	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
SPSB1	-0,42101	0,984482	-0,60616	0,568801	0,65654	-7,20501
SNX4	-0,08583	6,952905	-0,60608	0,568846	0,65654	-7,20506
OLA1	0,21045	6,167469	0,605527	0,569191	0,656839	-7,20543
ZNF345	0,158765	5,553579	0,605513	0,569199	0,656839	-7,20544
PF4V1	0,377696	3,487121	0,605252	0,56936	0,656972	-7,20562
UCHL5	0,094618	8,135814	0,604197	0,570012	0,657671	-7,20632
ZNF442	0,725846	2,160362	0,603891	0,570202	0,657713	-7,20653
ADO	-0,08356	6,981969	-0,60303	0,570732	0,657713	-7,2071
ACTR3C	0,740797	1,232053	0,602034	0,571351	0,657713	-7,20776
LIN52	-0,08482	6,414659	-0,60193	0,571418	0,657713	-7,20784
ACADL	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
ALLC	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
ANP32C	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
ARL17A	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
C16orf46	-0,44064	0,553655	-0,60181	0,571492	0,657713	-7,20792
CDH12	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
CERCAM	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
EYA1	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
FAM167B	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
FAM209B	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
HOXD8	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
HS3ST5	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
HTR2A	-0,44064	0,553655	-0,60181	0,571492	0,657713	-7,20792
IFT140	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
LINC00158	-0,44064	0,553655	-0,60181	0,571492	0,657713	-7,20792
LINC00485	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792

MANEAL	-0,44064	0,553655	-0,60181	0,571492	0,657713	-7,20792
MARK1	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
MIR16-2	-0,44064	0,553655	-0,60181	0,571492	0,657713	-7,20792
NBPF10	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
NIPSNAP3E	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
OR3A2	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
SLC26A8	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
SYT12	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
TNNC2	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
TSPAN15	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
WIPF3	0,440643	0,553655	0,601807	0,571492	0,657713	-7,20792
METTL9	-0,07671	8,523467	-0,60167	0,571578	0,657759	-7,20801
DHX33	0,099817	6,419418	0,601364	0,571766	0,657922	-7,20821
RHOT2	0,130024	7,401386	0,600998	0,571993	0,658129	-7,20845
PIK3R3	-0,34769	3,49094	-0,60061	0,57223	0,658349	-7,20871
CDK11A	0,171388	4,935943	0,600434	0,572342	0,658424	-7,20883
DNAJC10	-0,09052	8,508461	-0,60005	0,572578	0,658641	-7,20908
RAB11FIP2	0,080621	7,319528	0,599876	0,572688	0,658675	-7,2092
MAP2	0,699845	1,814028	0,599857	0,5727	0,658675	-7,20921
REST	0,08444	9,117041	0,599654	0,572826	0,658758	-7,20935
ADARB1	-0,25346	4,784151	-0,59959	0,572865	0,658758	-7,20939
KIAA0753	0,252834	5,693826	0,599325	0,57303	0,658844	-7,20956
OPA3	-0,16614	5,273337	-0,59932	0,573033	0,658844	-7,20957
OIP5	-0,7408	1,760374	-0,59919	0,573117	0,658887	-7,20966
PLEKHJ1	0,134531	5,619309	0,598318	0,573655	0,659451	-7,21023
SREBF2	-0,12912	6,322951	-0,59798	0,573862	0,659617	-7,21045
RCL1	-0,17507	5,513033	-0,59794	0,573893	0,659617	-7,21048
DLG4	0,186241	5,61648	0,597744	0,574012	0,659701	-7,21061
CACNA2D2	-0,69133	2,697428	-0,59723	0,574333	0,660015	-7,21095
CTNND2	0,252086	4,121323	0,595591	0,57535	0,661131	-7,21203
ADAM19	0,215477	5,840962	0,595307	0,575527	0,66128	-7,21222
ABCA7	-0,14678	5,27837	-0,59474	0,575877	0,661629	-7,21259
CLC	-0,09608	6,374454	-0,59465	0,575938	0,661645	-7,21266
NUAK1	0,193223	3,655851	0,594406	0,576087	0,661763	-7,21281
CCNY	-0,07753	8,174747	-0,59416	0,576242	0,661887	-7,21298
FGD5-AS1	-0,07796	8,536642	-0,59393	0,576383	0,661996	-7,21313
MED25	-0,385	5,430956	-0,59251	0,577267	0,662957	-7,21406
CGRRF1	0,123508	5,319347	0,592133	0,577503	0,663129	-7,21431
NCOA2	0,080168	7,607377	0,592121	0,577511	0,663129	-7,21432
ZNF485	-0,17536	3,025605	-0,5918	0,577709	0,663303	-7,21452
REG4	-0,52832	1,038136	-0,59095	0,57824	0,663804	-7,21508
ART3	0,528321	1,038136	0,590952	0,57824	0,663804	-7,21508
MANBA	-0,12862	8,215744	-0,59056	0,578482	0,664028	-7,21534
AGAP1	0,211823	4,916062	0,590128	0,578754	0,664287	-7,21562
TRAK1	-0,13591	6,36656	-0,58953	0,579129	0,664663	-7,21601
MTMR14	-0,14072	6,18443	-0,58917	0,579351	0,664864	-7,21625
MFGE8	-0,45244	3,17367	-0,589	0,57946	0,664904	-7,21636
DHX35	-0,49873	4,178667	-0,58897	0,57948	0,664904	-7,21638
RAB5B	0,107128	7,083179	0,588885	0,57953	0,664907	-7,21643
TRPC1	0,520626	3,624566	0,588314	0,579887	0,665263	-7,21681
ACSM3	0,123853	5,153968	0,587791	0,580214	0,665584	-7,21715
FGFR1OP2	-0,08783	9,699699	-0,58763	0,580312	0,665593	-7,21725

CD96	0,090078	8,210112	0,587628	0,580316	0,665593	-7,21725
AIG1	-0,49571	4,079808	-0,58748	0,580411	0,665648	-7,21735
IZUMO4	0,528321	1,26416	0,586695	0,580899	0,666154	-7,21786
C4orf3	-0,13035	8,975075	-0,58628	0,581157	0,666396	-7,21813
TRIM38	-0,08336	9,188052	-0,58576	0,581487	0,666719	-7,21847
INTU	0,440643	2,351094	0,585663	0,581545	0,666732	-7,21853
LCN2	0,602452	1,741869	0,585467	0,581668	0,666818	-7,21866
LINC00299	0,528321	1,125815	0,58527	0,581791	0,666852	-7,21879
MEGF6	-0,52832	1,125815	-0,58527	0,581791	0,666852	-7,21879
NDUFS8	-0,22169	5,588369	-0,58501	0,581956	0,666987	-7,21896
CDK8	0,164385	5,485559	0,584035	0,582564	0,66763	-7,21959
ZBTB9	-0,52832	2,038136	-0,5827	0,583403	0,668537	-7,22045
SLC25A33	0,177498	5,100807	0,581939	0,58388	0,669029	-7,22094
CEP97	-0,10501	6,241172	-0,58174	0,584002	0,669115	-7,22107
PMM1	0,314583	4,956873	0,581532	0,584135	0,669213	-7,22121
GAR1	-0,10078	6,752972	-0,58142	0,584207	0,669241	-7,22128
UROS	-0,14715	4,817014	-0,58119	0,584351	0,669352	-7,22143
SORD	-0,66667	1,333333	-0,58013	0,585013	0,670055	-7,22211
ORC6	0,319786	2,939843	0,579708	0,58528	0,670288	-7,22238
TRABD	0,076305	6,809716	0,57966	0,585311	0,670288	-7,22241
TUBGCP5	-0,14423	6,08214	-0,57928	0,585547	0,670505	-7,22266
ZNF850	0,261941	3,489909	0,578952	0,585756	0,670689	-7,22287
TMF1	-0,07307	8,996886	-0,57871	0,585906	0,670807	-7,22302
INPP5B	0,091572	6,426106	0,578417	0,586092	0,670956	-7,22321
CLCA2	-0,52832	1,320802	-0,57828	0,586179	0,670956	-7,2233
PLA2R1	0,528321	1,320802	0,578279	0,586179	0,670956	-7,2233
NUP214	-0,09433	7,24107	-0,57691	0,587041	0,671851	-7,22418
AMOT	-0,59254	2,622028	-0,57689	0,587056	0,671851	-7,2242
CCDC138	-0,14272	4,571725	-0,57576	0,587763	0,672607	-7,22492
GLYR1	0,10303	7,85576	0,574976	0,588259	0,673119	-7,22542
PDS5B	-0,0784	8,548178	-0,57482	0,588358	0,67316	-7,22552
CCS	0,288636	4,452465	0,574768	0,58839	0,67316	-7,22555
SYNJ2BP	0,077065	6,994027	0,574322	0,588671	0,673412	-7,22584
PTRH2	-0,38789	4,218658	-0,57427	0,588705	0,673412	-7,22587
TRIM32	-0,47468	4,416087	-0,57385	0,588972	0,673662	-7,22614
FAM8A1	0,104548	7,034796	0,573553	0,589156	0,673818	-7,22633
SNRNP27	0,087746	7,765386	0,573467	0,589211	0,673826	-7,22638
PSENN	-0,20739	5,183961	-0,57323	0,589362	0,673945	-7,22654
ZNF124	0,112325	4,706408	0,573057	0,58947	0,673963	-7,22664
ZNF816	-0,55936	2,494297	-0,57305	0,589473	0,673963	-7,22665
MRPS22	-0,14951	6,659134	-0,57196	0,590163	0,674664	-7,22734
ANP32A	0,075847	8,776067	0,571928	0,590182	0,674664	-7,22736
AJAP1	-0,33333	0,833333	-0,57092	0,59082	0,675011	-7,228
C11orf96	0,333333	0,833333	0,570919	0,59082	0,675011	-7,228
CA1	0,333333	0,833333	0,570919	0,59082	0,675011	-7,228
REG1B	0,333333	0,833333	0,570919	0,59082	0,675011	-7,228
SYT6	0,333333	0,833333	0,570919	0,59082	0,675011	-7,228
TEAD1	0,333333	0,833333	0,570919	0,59082	0,675011	-7,228
ZNF20	-0,33333	0,833333	-0,57092	0,59082	0,675011	-7,228
DENND2C	0,699845	2,059684	0,570729	0,59094	0,675079	-7,22812
S100P	-0,616	2,351094	-0,57067	0,590974	0,675079	-7,22816
AK3	0,108532	7,59543	0,570575	0,591037	0,675096	-7,22822

ATF7IP2	0,101397	6,309861	0,569363	0,591804	0,675901	-7,22899
SOCS7	-0,08429	6,890626	-0,56931	0,591837	0,675901	-7,22902
EXOC8	0,096386	7,088779	0,569145	0,591942	0,675965	-7,22913
SLC35F2	0,282666	4,084574	0,56887	0,592115	0,676109	-7,2293
MORF4L1	-0,07727	8,411139	-0,56815	0,592569	0,676465	-7,22976
RAB11FIP5	-0,23868	4,164576	-0,56814	0,592579	0,676465	-7,22977
TMEM45B	0,418069	4,58632	0,568114	0,592594	0,676465	-7,22978
BSG	-0,15365	5,922233	-0,56808	0,592619	0,676465	-7,22981
IDS	0,070344	9,618096	0,567872	0,592747	0,676557	-7,22993
TRIM37	-0,15835	6,273599	-0,56711	0,59323	0,677054	-7,23042
RHPN1	0,773976	1,053655	0,566617	0,593543	0,677355	-7,23073
PIGA	-0,48234	4,469127	-0,56653	0,593596	0,677362	-7,23078
C9orf40	-0,2274	4,640529	-0,56603	0,593916	0,677672	-7,2311
SOS2	0,07937	8,391336	0,565942	0,59397	0,67768	-7,23115
SEMA4D	0,078837	9,250856	0,565168	0,594461	0,678185	-7,23164
WDR26	0,07447	8,400383	0,564906	0,594627	0,678319	-7,23181
ZNF778	0,352965	3,252755	0,564549	0,594854	0,678523	-7,23203
HLA-DQA2	0,333333	1,361654	0,564242	0,595048	0,67869	-7,23222
TRAF4	0,245655	4,027576	0,563823	0,595314	0,678885	-7,23249
RGL4	-0,24034	3,558554	-0,56382	0,595315	0,678885	-7,23249
ZWINT	-0,47168	1,699945	-0,56363	0,59544	0,678973	-7,23261
MAPKBP1	0,112143	5,320826	0,563537	0,595496	0,678982	-7,23267
NDUFA9	0,089725	6,920909	0,563262	0,595671	0,679126	-7,23284
04-set	0,808341	2,655799	0,563115	0,595764	0,679178	-7,23293
H2AFX	-0,25427	5,29088	-0,56293	0,595882	0,679257	-7,23305
KCNH2	0,333333	1,997284	0,562188	0,596353	0,67974	-7,23351
VTI1A	-0,12229	6,031046	-0,56144	0,59683	0,680228	-7,23398
NDUFS7	-0,16778	5,793616	-0,56128	0,596929	0,680287	-7,23408
TAF5L	-0,10058	6,371328	-0,56086	0,597199	0,680539	-7,23434
TXNDC12	-0,4481	3,890716	-0,55894	0,598422	0,681878	-7,23554
KPNA2	-0,19225	5,89148	-0,5586	0,598637	0,682067	-7,23575
IL1RL1	0,257453	3,850153	0,558232	0,59887	0,682279	-7,23598
NME3	0,285852	4,758808	0,557659	0,599236	0,68264	-7,23634
TMEM131	0,096709	7,36954	0,557316	0,599454	0,682834	-7,23655
PAQR8	0,083367	6,772562	0,556986	0,599664	0,683016	-7,23676
FUS	-0,0775	9,613654	-0,55691	0,599711	0,683016	-7,2368
SIAH2	0,104181	7,155491	0,556022	0,60028	0,683609	-7,23736
CXCR3	-0,09675	5,894635	-0,55416	0,60147	0,684887	-7,23851
TNFRSF17	-0,39381	3,518832	-0,55411	0,601499	0,684887	-7,23854
CIB1	0,096721	7,998147	0,553926	0,601618	0,684967	-7,23866
MINK1	-0,19176	4,956044	-0,55347	0,601909	0,685211	-7,23894
AARSD1	0,54581	2,931998	0,553439	0,601929	0,685211	-7,23896
POLR3F	-0,43007	3,937509	-0,55313	0,602125	0,685342	-7,23915
KLF3	0,102227	7,761026	0,553107	0,602141	0,685342	-7,23916
POLR1A	-0,14708	4,735959	-0,55284	0,602312	0,685481	-7,23933
CRBN	-0,09639	8,483651	-0,55205	0,60282	0,686004	-7,23982
HIVEP1	0,113856	7,281748	0,551793	0,602981	0,686132	-7,23997
CDKN2AIP†	-0,74798	3,356777	-0,5515	0,603171	0,686293	-7,24015
SLC35B1	-0,09179	7,322467	-0,55072	0,60367	0,686806	-7,24063
PPP2R1A	0,129632	5,71239	0,5503	0,603936	0,687053	-7,24089
TMX2	0,082924	6,648959	0,548052	0,605377	0,688637	-7,24227
IL4	0,407464	1,39872	0,547506	0,605727	0,68898	-7,2426

HIST1H4J	0,471679	1,097494	0,547157	0,605951	0,689124	-7,24282
MMP7	-0,47168	1,097494	-0,54716	0,605951	0,689124	-7,24282
SLC22A2	0,578989	0,817815	0,547012	0,606044	0,689174	-7,24291
DGKZ	0,195419	7,939904	0,546746	0,606214	0,689312	-7,24307
CDCA2	-0,54187	2,314028	-0,5466	0,606309	0,689364	-7,24316
DCTPP1	-0,31141	4,470058	-0,54501	0,607327	0,690466	-7,24413
IGF2BP2	-0,30521	5,370818	-0,54466	0,607553	0,690668	-7,24434
DOCK11	-0,081	8,360644	-0,54456	0,607621	0,690689	-7,24441
SMAD7	0,069315	7,771274	0,544443	0,607693	0,690716	-7,24447
TAB3	-0,10086	6,193042	-0,54435	0,607756	0,690731	-7,24453
MAP2K3	0,089921	8,57857	0,543297	0,60843	0,690832	-7,24517
FBXW4	0,178812	5,239423	0,543256	0,608456	0,690832	-7,2452
APOM	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
AR	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
ARHGAP28	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
KCNB1	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
TRIM46	0,333333	0,694988	0,543068	0,608577	0,690832	-7,24531
TSNARE1	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
XIRP2	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
FAM189A2	0,333333	0,694988	0,543068	0,608577	0,690832	-7,24531
FBXL6	0,333333	0,694988	0,543068	0,608577	0,690832	-7,24531
GPR15	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
PTH2R	-0,33333	0,694988	-0,54307	0,608577	0,690832	-7,24531
RBFOX3	0,333333	0,694988	0,543068	0,608577	0,690832	-7,24531
TUBA8	0,333333	0,694988	0,543068	0,608577	0,690832	-7,24531
DNA2	0,569246	3,648875	0,542617	0,608867	0,691106	-7,24558
MTMR3	-0,09957	7,612043	-0,54239	0,609014	0,691217	-7,24572
APIP	0,081892	6,036215	0,541879	0,609342	0,691534	-7,24603
CD24	0,23348	3,109167	0,541765	0,609415	0,691561	-7,2461
MOV10	-0,1916	5,542696	-0,54146	0,609612	0,691728	-7,24629
TBL1X	-0,0982	8,355931	-0,54083	0,610018	0,692134	-7,24667
KALRN	0,666667	1,63563	0,538982	0,611208	0,693429	-7,24778
KIAA0556	-0,1643	5,321483	-0,53835	0,611617	0,693837	-7,24817
AP2B1	0,089102	7,430384	0,538147	0,611747	0,693928	-7,24829
CISD1	-0,11535	6,156694	-0,53803	0,611819	0,693955	-7,24836
DEDD	-0,12687	6,063319	-0,5378	0,611971	0,694071	-7,2485
METTL2A	-0,43297	3,988955	-0,53743	0,612211	0,694287	-7,24872
CEBPE	-0,44064	0,886988	-0,53708	0,612432	0,69431	-7,24893
MMP11	-0,44064	0,886988	-0,53708	0,612432	0,69431	-7,24893
SLC23A3	0,440643	0,886988	0,537084	0,612432	0,69431	-7,24893
TSPAN19	-0,44064	0,886988	-0,53708	0,612432	0,69431	-7,24893
UNC5C	0,615999	1,855952	0,536961	0,612512	0,69431	-7,249
CMIP	-0,11837	9,265063	-0,53694	0,612525	0,69431	-7,24901
ZHX1	0,0821	7,522517	0,536551	0,612776	0,694539	-7,24925
SNED1	0,740797	2,232053	0,536323	0,612924	0,694651	-7,24939
FGFBP3	0,389003	3,844929	0,535828	0,613244	0,694957	-7,24968
POLD2	0,177295	4,365882	0,535299	0,613585	0,695288	-7,25
NAA10	0,183803	4,541846	0,534877	0,613858	0,695542	-7,25025
DTX3	-0,26519	4,154176	-0,53468	0,613988	0,695621	-7,25037
ROCK1	-0,07421	10,38325	-0,53462	0,614026	0,695621	-7,25041
DPF3	0,495142	1,354881	0,5345	0,614102	0,695651	-7,25048
CLIC5	-0,81162	3,840784	-0,53439	0,614175	0,695678	-7,25055

BCAT2	0,160125	3,661674	0,534256	0,61426	0,695718	-7,25062
VAMP4	-0,09295	7,11751	-0,53381	0,61455	0,695991	-7,25089
MDH2	-0,07898	7,760667	-0,5337	0,614616	0,695995	-7,25096
MED1	0,073404	9,575135	0,533649	0,614652	0,695995	-7,25099
SNORD11B	0,30987	2,147362	0,533123	0,614992	0,696275	-7,2513
EIF4ENIF1	-0,08318	6,848557	-0,53311	0,614998	0,696275	-7,25131
KPNA4	-0,07407	8,360651	-0,53251	0,615391	0,696665	-7,25167
RAI14	-0,63563	1,317815	-0,53243	0,615443	0,696667	-7,25172
ZNF512B	-0,08298	4,695247	-0,53221	0,615581	0,696767	-7,25185
ARHGEF2	-0,1114	6,422216	-0,53178	0,615858	0,697026	-7,2521
HDAC8	-0,12524	5,994159	-0,53124	0,616214	0,697373	-7,25243
EML2	0,103878	7,693623	0,530733	0,61654	0,697685	-7,25273
POR	0,152635	5,996869	0,53038	0,616768	0,697888	-7,25294
XPO1	0,090237	8,391722	0,53008	0,616963	0,698052	-7,25312
ACBD4	-0,55178	2,383201	-0,52964	0,617246	0,698205	-7,25338
NCDN	-0,55178	2,383201	-0,52964	0,617246	0,698205	-7,25338
ZNF653	-0,55178	2,383201	-0,52964	0,617246	0,698205	-7,25338
KCNMB4	-0,17712	3,999	-0,52956	0,617298	0,698208	-7,25342
CLCN7	-0,13954	6,576309	-0,52942	0,617388	0,698231	-7,25351
TIMM10	0,153916	5,880464	0,529379	0,617417	0,698231	-7,25353
CCL4	0,10834	8,182462	0,529057	0,617626	0,698391	-7,25372
KRI1	-0,2114	5,655364	-0,52901	0,617657	0,698391	-7,25375
ESPL1	-0,64918	1,593707	-0,52891	0,617723	0,698409	-7,25381
SLC35A3	-0,10064	6,843025	-0,52875	0,617822	0,698436	-7,2539
LLGL1	-0,13178	5,322596	-0,52872	0,617845	0,698436	-7,25392
PUM1	0,069476	9,359385	0,528285	0,618127	0,698698	-7,25418
PRG4	-0,38998	0,861654	-0,52778	0,618456	0,699015	-7,25448
SVIP	0,095519	8,332552	0,527369	0,618721	0,699258	-7,25472
MARS2	0,141972	5,442491	0,527068	0,618917	0,699421	-7,2549
RAD9B	0,666667	1,440643	0,526995	0,618964	0,699421	-7,25494
SMC1A	0,066293	9,532188	0,525811	0,619733	0,700234	-7,25564
SIAE	0,274809	3,268177	0,524038	0,620886	0,701481	-7,25669
ISCA2	-0,11931	6,193906	-0,52392	0,620961	0,701509	-7,25676
C12orf49	0,125678	6,724224	0,523382	0,621313	0,701825	-7,25707
FUNDC1	0,106958	6,357628	0,523341	0,621339	0,701825	-7,2571
PMS2P3	0,584302	2,210447	0,52322	0,621419	0,701858	-7,25717
NFKBIL1	-0,43319	3,052525	-0,52248	0,621898	0,702343	-7,2576
NCOA6	-0,09913	8,10644	-0,52208	0,62216	0,702583	-7,25784
GBF1	0,102201	5,531823	0,521644	0,622444	0,702848	-7,25809
RNF170	0,139028	5,807621	0,521519	0,622526	0,702884	-7,25817
ZNF813	0,272211	4,756468	0,521368	0,622624	0,702938	-7,25826
EPB41L4A	-0,52832	2,37147	-0,52029	0,623324	0,703673	-7,25888
HUS1B	0,440643	1,415309	0,519873	0,623598	0,703926	-7,25913
ALPK1	-0,15613	6,573862	-0,51975	0,623678	0,70396	-7,2592
SBNO2	0,096624	7,646812	0,519457	0,62387	0,70412	-7,25937
TPPP	0,384001	1,581976	0,519284	0,623983	0,704192	-7,25947
SURF2	-0,36467	3,776121	-0,51868	0,624379	0,704543	-7,25983
HSPE1	0,11818	7,378697	0,518207	0,624686	0,704543	-7,2601
CH25H	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
CNTN6	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
IL1RL2	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
MDK	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015

MYOCD	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
THBS2	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
THNSL2	0,528321	0,792481	0,518119	0,624743	0,704543	-7,26015
SFT2D3	0,091021	5,719561	0,517289	0,625285	0,705097	-7,26064
ZFYVE9	0,248883	4,390869	0,517214	0,625334	0,705097	-7,26068
VMAC	-0,3568	2,342349	-0,51708	0,625418	0,705136	-7,26075
FAM129A	0,070787	9,363733	0,516446	0,625836	0,705478	-7,26113
HS3ST1	-0,13878	4,812832	-0,5162	0,625995	0,705478	-7,26127
RUNX1	0,076819	7,97304	0,516157	0,626024	0,705478	-7,26129
RASAL3	-0,19479	7,014201	-0,51597	0,626147	0,705478	-7,2614
NTNG2	-0,72131	3,527936	-0,51592	0,62618	0,705478	-7,26143
TMEM107	-0,27477	6,672543	-0,51563	0,62637	0,705478	-7,2616
SYAP1	-0,08226	7,575347	-0,51463	0,627025	0,705478	-7,26218
TNFRSF13C	0,151018	6,949548	0,514444	0,627144	0,705478	-7,26229
TRMT5	-0,08704	5,202121	-0,51442	0,62716	0,705478	-7,2623
MTOR	-0,13051	6,376853	-0,51392	0,62749	0,705478	-7,26259
ZFP91	0,07407	9,228398	0,51358	0,62771	0,705478	-7,26279
SEC11C	-0,07481	8,427395	-0,51348	0,627775	0,705478	-7,26284
RNF8	0,068382	6,361358	0,512977	0,628104	0,705478	-7,26313
PKN1	0,256075	4,735959	0,512808	0,628215	0,705478	-7,26323
ABCA3	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
ADAMTS2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
AGXT2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
AIPL1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
CNTN2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
COL15A1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
CSN1S1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
DNALI1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
DPY19L2P1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
FAM19A1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
FAM72A	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
FAM90A1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
GALNT13	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
GUSBP2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
HNRNPKP3	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
LRRC66	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
MASP2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
MIOX	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
NR1I3	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
NRG2	-0,33333	0,5	-0,5128	0,628217	0,705478	-7,26323
OR13A1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
OSTN	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
RAPSN	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
RUNDC3A	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SELENBP1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SH3D19	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SIM1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SLC18A1	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SLC35G5	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SMAD9	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SRRM3	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
ST6GALNAC	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323

TAS1R3	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
TGFB2	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
TMPRSS11H	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
ZNF385B	0,333333	0,5	0,512805	0,628217	0,705478	-7,26323
SURF1	0,140504	6,458978	0,512427	0,628465	0,70564	-7,26345
ITGB5	-0,52832	1,866612	-0,51237	0,6285	0,70564	-7,26348
DGCR2	0,110343	7,223807	0,512355	0,628511	0,70564	-7,26349
C3orf33	-0,44064	1,822773	-0,51216	0,628639	0,705727	-7,2636
BCL10	0,07654	7,284254	0,511957	0,628773	0,705768	-7,26372
DGKE	-0,09853	6,667686	-0,51195	0,628775	0,705768	-7,26372
SUN2	-0,10851	9,411047	-0,51161	0,629002	0,705966	-7,26392
CD55	-0,08845	8,121407	-0,51141	0,629128	0,706052	-7,26403
KDM5C	-0,08648	7,040673	-0,51126	0,62923	0,70611	-7,26412
LMTK2	-0,44467	4,048927	-0,5105	0,629729	0,706576	-7,26456
TSEN15	0,082032	8,25203	0,510474	0,629745	0,706576	-7,26458
PCYOX1L	-0,11465	5,033745	-0,50981	0,630179	0,706972	-7,26496
DUSP10	0,094733	7,218434	0,509783	0,630198	0,706972	-7,26497
ENTPD3-AS	0,36163	2,528946	0,509517	0,630372	0,707103	-7,26512
C3orf35	-0,5615	1,883201	-0,50942	0,630433	0,707103	-7,26518
MOXD1	-0,3023	2,258458	-0,50938	0,630465	0,707103	-7,26521
IER5	-0,06356	9,971049	-0,5081	0,631304	0,707947	-7,26594
SLC25A32	-0,15404	4,38923	-0,50808	0,631317	0,707947	-7,26595
CCZ1B	-0,10533	6,331877	-0,50796	0,631396	0,707979	-7,26602
PTPN7	0,116055	6,164426	0,507554	0,631661	0,70822	-7,26625
CDK16	0,215333	5,238975	0,507414	0,631753	0,708267	-7,26633
F5	0,388603	3,837388	0,507085	0,631969	0,708453	-7,26652
PPP2R2B	-0,11553	5,819294	-0,50698	0,632039	0,708475	-7,26658
ZDHHC5	0,126409	6,932766	0,506828	0,632137	0,708529	-7,26666
PDP2	0,140683	5,433864	0,505478	0,633025	0,709467	-7,26743
NT5C2	-0,12795	7,390865	-0,50538	0,633089	0,709483	-7,26749
CYTH4	-0,15697	6,978515	-0,5052	0,63321	0,709563	-7,26759
NECAP1	0,08231	6,918668	0,504889	0,633412	0,709733	-7,26777
SAE1	-0,09201	6,842292	-0,50427	0,633821	0,710135	-7,26812
ACTR10	-0,07957	7,991781	-0,5039	0,634063	0,71035	-7,26833
ATAD2	0,11686	6,760291	0,503707	0,63419	0,710436	-7,26844
C9orf16	-0,22602	3,843776	-0,50253	0,634967	0,711249	-7,26911
IL6R	0,069928	8,95581	0,501995	0,635317	0,711585	-7,26941
TP53BP2	0,100562	6,831058	0,501562	0,635603	0,711849	-7,26965
PALMD	0,333333	1,028321	0,499961	0,636658	0,712974	-7,27056
PEX13	0,141251	6,110576	0,49975	0,636797	0,713074	-7,27068
DLG1	-0,11059	7,451845	-0,49906	0,637254	0,713529	-7,27107
NEUROD2	0,686298	1,538136	0,498738	0,637465	0,713709	-7,27125
PTPN1	0,074944	10,20055	0,498275	0,637771	0,713994	-7,27151
EXOC1	0,085708	7,774605	0,497793	0,638089	0,714245	-7,27178
ZNF527	0,15669	5,110062	0,497782	0,638096	0,714245	-7,27178
RBM34	0,188492	4,88302	0,49747	0,638302	0,71437	-7,27196
LZTS1	-0,60245	1,408535	-0,49746	0,638308	0,71437	-7,27196
RPH3AL	0,440643	1,327631	0,496799	0,638746	0,714802	-7,27234
DDX54	0,073846	7,076205	0,496712	0,638803	0,71481	-7,27238
IFT46	-0,42178	4,001846	-0,4945	0,640267	0,716392	-7,27362
E2F1	-0,52832	1,199945	-0,49417	0,640486	0,71648	-7,27381
MECR	-0,52832	1,199945	-0,49417	0,640486	0,71648	-7,27381

ZNF680	-0,15136	5,095193	-0,49415	0,640498	0,71648	-7,27382
GLRA3	0,686298	1,204803	0,493719	0,640783	0,716615	-7,27406
KCNQ5	-0,42101	0,984482	-0,49366	0,640822	0,716615	-7,27409
LYG1	0,421011	0,984482	0,49366	0,640822	0,716615	-7,27409
ZNF324B	-0,42101	0,984482	-0,49366	0,640822	0,716615	-7,27409
GLE1	0,083912	7,205151	0,49357	0,640881	0,716625	-7,27414
C16orf86	-0,52832	1,704803	-0,49324	0,641099	0,716812	-7,27432
ANGPT1	-0,24351	2,814028	-0,49298	0,641272	0,716912	-7,27447
TBC1D10A	0,288636	4,667919	0,492902	0,641324	0,716912	-7,27451
POU4F1	0,384001	1,248642	0,492876	0,641341	0,716912	-7,27453
TPD52	0,101139	6,480287	0,492322	0,641708	0,717228	-7,27483
EPB41L5	0,390371	4,01823	0,492296	0,641725	0,717228	-7,27485
HOXB3	0,152706	4,8754	0,492184	0,641799	0,717254	-7,27491
EGLN2	-0,21266	4,756575	-0,49185	0,642023	0,717422	-7,2751
GORAB	-0,11836	5,702526	-0,49179	0,642059	0,717422	-7,27513
POLE2	-0,54187	2,647362	-0,49173	0,642102	0,717422	-7,27516
XPO5	0,149117	5,469414	0,491288	0,642393	0,71769	-7,27541
TROVE2	0,077449	8,458081	0,491096	0,642521	0,717777	-7,27552
DERL1	-0,07361	8,047385	-0,49011	0,643172	0,718447	-7,27606
TRIM24	-0,15663	6,360869	-0,48981	0,643373	0,718615	-7,27623
SPATS2	-0,14362	5,167716	-0,48923	0,64376	0,718986	-7,27655
CCNB1	-0,3023	2,151148	-0,48916	0,643806	0,718986	-7,27659
NAIF1	0,132177	5,510823	0,488847	0,644012	0,719159	-7,27676
GTDC1	0,073536	6,211493	0,48868	0,644123	0,719225	-7,27685
KIF21A	0,072416	7,100984	0,48853	0,644222	0,71928	-7,27693
KIAA2013	0,072511	7,75408	0,488256	0,644404	0,719426	-7,27709
RABAC1	-0,12887	5,984155	-0,48746	0,64493	0,719956	-7,27752
PACS2	-0,33239	4,818535	-0,48722	0,645094	0,720083	-7,27766
SKP1	-0,08777	8,940969	-0,48595	0,645939	0,720969	-7,27836
SNAPC1	-0,1851	6,094015	-0,4857	0,646103	0,721095	-7,27849
CENPH	0,162001	3,907594	0,485169	0,646456	0,721431	-7,27878
NEO1	0,136922	4,982512	0,484966	0,646591	0,721526	-7,2789
ZNF775	-0,23091	3,094332	-0,4841	0,647167	0,722112	-7,27937
ULK4	-0,26984	4,381514	-0,48336	0,647659	0,722603	-7,27977
RNF138	-0,06768	7,741912	-0,48321	0,647756	0,722655	-7,27985
ZNF416	0,471679	0,76416	0,482873	0,647984	0,722852	-7,28004
DNAJC21	0,086295	8,802536	0,482604	0,648163	0,722994	-7,28019
ZNF808	0,105611	6,621364	0,481845	0,648668	0,723501	-7,2806
ABCA8	0,751252	2,383082	0,481727	0,648747	0,723532	-7,28067
ASB6	-0,12952	5,142284	-0,48137	0,648983	0,723708	-7,28086
STAU1	0,063995	7,907935	0,481335	0,649008	0,723708	-7,28088
VPS28	0,064241	7,011077	0,480974	0,649249	0,723897	-7,28108
TRPV3	0,389975	1,389975	0,480928	0,64928	0,723897	-7,2811
MICB	0,173038	6,139441	0,48022	0,649751	0,724321	-7,28149
NUP133	0,068732	6,89956	0,480204	0,649762	0,724321	-7,28149
PMPCA	-0,27755	5,236336	-0,47963	0,650142	0,7246	-7,2818
MAP1LC3B	-0,07501	8,606319	-0,47957	0,650187	0,7246	-7,28184
CDC7	0,186696	4,088629	0,479553	0,650197	0,7246	-7,28185
ACSL3	0,068809	8,574119	0,479521	0,650218	0,7246	-7,28186
PXN	0,12351	8,167788	0,479239	0,650406	0,724753	-7,28202
C19orf24	0,130387	5,772263	0,479131	0,650478	0,724776	-7,28208
UBA6	0,068821	8,150641	0,478936	0,650608	0,724864	-7,28218

DENND1B	0,093554	7,407004	0,478691	0,650772	0,724989	-7,28231
FBN2	0,214619	2,497284	0,47679	0,652041	0,726345	-7,28334
TCEAL4	-0,14854	5,971446	-0,47601	0,652561	0,726867	-7,28376
SNORD63	0,366512	2,388159	0,475206	0,6531	0,72741	-7,2842
ESCO2	0,245655	2,586933	0,475128	0,653152	0,727411	-7,28424
RNF2	-0,23975	6,404513	-0,47467	0,653457	0,727683	-7,28448
PI15	-0,38998	1,194988	-0,47453	0,653551	0,727683	-7,28456
IFRD1	0,093304	7,633804	0,474532	0,653551	0,727683	-7,28456
IQCD	0,666667	1,107309	0,473847	0,654009	0,728122	-7,28493
LRP1B	0,61822	2,278074	0,473768	0,654062	0,728122	-7,28497
BASP1	-0,07453	7,871227	-0,47371	0,654099	0,728122	-7,285
TSN	-0,11122	8,084962	-0,47326	0,654402	0,728402	-7,28524
HSD17B8	0,278834	3,34432	0,473058	0,654537	0,728442	-7,28535
SCN9A	-0,45419	2,270189	-0,47305	0,654541	0,728442	-7,28535
SEL1L3	0,134327	7,95197	0,472781	0,654723	0,728587	-7,2855
TMEM50A	-0,07071	8,532198	-0,47249	0,654919	0,728747	-7,28565
SYNPO	-0,42101	1,317815	-0,47172	0,655433	0,729263	-7,28607
PRLR	-0,57899	1,346136	-0,47104	0,655887	0,729709	-7,28643
TCHP	0,097476	5,908628	0,470355	0,656348	0,730165	-7,28679
DHX37	-0,26452	3,403519	-0,4702	0,65645	0,730178	-7,28688
TMEM63A	-0,16938	7,06284	-0,47014	0,656491	0,730178	-7,28691
EDEM3	0,067404	8,515554	0,470107	0,656514	0,730178	-7,28693
PIN4	0,097541	6,669304	0,469254	0,657086	0,730756	-7,28738
SEC24A	-0,0877	6,753473	-0,46901	0,657253	0,730884	-7,28751
LHX2	0,440643	1,748642	0,468145	0,657831	0,731469	-7,28797
DLGAP2	0,376428	1,521547	0,467848	0,65803	0,731605	-7,28813
UGT8	0,302297	2,7536	0,467763	0,658087	0,731605	-7,28817
PLAC8	-0,07356	8,060794	-0,46773	0,658108	0,731605	-7,28819
NFS1	-0,10743	4,919734	-0,46746	0,658291	0,73175	-7,28833
EXOSC2	0,224053	5,26171	0,467135	0,658509	0,731935	-7,28851
BPHL	-0,56654	2,968362	-0,46657	0,658886	0,732297	-7,2888
UBXN2B	-0,10629	5,39726	-0,46645	0,658971	0,732333	-7,28887
FILIP1	0,245655	2,179469	0,466193	0,659142	0,732466	-7,289
UBE2V1	-0,52832	2,640588	-0,46488	0,660027	0,733392	-7,2897
DNAJC16	0,092444	6,652765	0,464637	0,660187	0,733513	-7,28983
RNASEH2A	-0,53766	2,900435	-0,46354	0,660924	0,734273	-7,2904
CEP128	0,147413	5,603814	0,463221	0,66114	0,734442	-7,29057
TCL6	-0,46411	2,501171	-0,46316	0,661179	0,734442	-7,2906
COX10	0,13062	4,816445	0,462691	0,661497	0,734737	-7,29085
CEP72	-0,29258	2,920267	-0,46226	0,66179	0,735004	-7,29108
CARHSP1	-0,12187	5,241079	-0,46209	0,6619	0,735069	-7,29116
FANCM	0,144326	5,468101	0,461507	0,662294	0,735449	-7,29147
DMAP1	0,185926	4,407318	0,46126	0,662461	0,735549	-7,2916
PRR11	-0,26064	4,926324	-0,46122	0,662488	0,735549	-7,29162
STAC3	-0,29935	3,834089	-0,4607	0,662836	0,735877	-7,29189
SBDS	-0,07545	7,66723	-0,45948	0,663661	0,736735	-7,29253
POLD1	0,140111	3,701661	0,458601	0,664253	0,737335	-7,29299
BPGM	-0,15736	5,004432	-0,45752	0,664979	0,738083	-7,29355
HELB	0,102626	7,413784	0,457344	0,665102	0,73816	-7,29364
PHTF1	-0,10993	5,670846	-0,45718	0,665215	0,738228	-7,29373
VPS13B	0,086985	7,018488	0,457097	0,665268	0,738229	-7,29377
G3BP2	0,072112	8,960773	0,456811	0,665461	0,738385	-7,29392

PPP1R12A	-0,06145	10,03407	-0,45668	0,665548	0,738424	-7,29398
VSIG10L	-0,40746	1,39872	-0,45591	0,666073	0,73892	-7,29439
SYTL3	0,12681	7,259208	0,455866	0,6661	0,73892	-7,29441
KRTCAP3	-0,25163	3,168909	-0,45525	0,666514	0,739268	-7,29472
JRK	-0,72553	3,98622	-0,45525	0,666518	0,739268	-7,29473
USP35	-0,3568	2,814028	-0,45507	0,666639	0,739344	-7,29482
PDK3	0,110995	6,105816	0,454906	0,666748	0,739407	-7,2949
C19orf70	0,139085	5,004118	0,454179	0,66724	0,739895	-7,29528
RRAGA	-0,08072	7,495133	-0,45367	0,667583	0,740119	-7,29554
NUDT19	-0,27116	5,035293	-0,45361	0,667625	0,740119	-7,29557
GK5	-0,1017	6,532674	-0,45361	0,667626	0,740119	-7,29557
MORF4L2	0,071811	8,16446	0,45357	0,667652	0,740119	-7,29559
FAM98C	-0,14997	5,125956	-0,45274	0,668213	0,740683	-7,29602
OXR1	0,064497	8,005294	0,452393	0,668448	0,740886	-7,2962
PPA2	-0,06717	7,242299	-0,45206	0,668675	0,741079	-7,29637
CCL3	0,144358	8,064387	0,451837	0,668824	0,741135	-7,29649
CXCR2	0,205755	4,142308	0,451828	0,66883	0,741135	-7,29649
ZNF138	-0,14012	4,431218	-0,45122	0,669242	0,741533	-7,2968
PHACTR4	-0,07332	7,491094	-0,4507	0,669596	0,741867	-7,29707
PAK2	0,061912	9,30234	0,449442	0,670447	0,742707	-7,29771
MCEE	0,159045	4,633448	0,449423	0,670459	0,742707	-7,29772
USP21	0,199519	4,174829	0,44909	0,670686	0,7429	-7,29789
TMOD2	-0,13022	5,839131	-0,44886	0,670841	0,743013	-7,29801
NDUFS5	0,068223	8,240875	0,448704	0,670947	0,743073	-7,29809
CAPRIN1	0,06365	7,949179	0,448589	0,671025	0,743101	-7,29815
WBP11P1	-0,42101	1,651148	-0,44803	0,671402	0,74346	-7,29843
PARL	0,064638	6,962417	0,447492	0,671769	0,743808	-7,29871
PARP11	0,085108	7,182014	0,447006	0,672099	0,744115	-7,29895
GPR107	0,081731	7,8742	0,446215	0,672636	0,74465	-7,29936
SHOC2	0,077328	8,481421	0,446136	0,67269	0,74465	-7,2994
NDUFA3	-0,10925	5,546574	-0,44606	0,67274	0,74465	-7,29943
TLE4	0,062097	9,299089	0,445888	0,672858	0,744722	-7,29952
NFATC2IP	-0,06984	8,467706	-0,44471	0,67366	0,745523	-7,30012
C5orf24	-0,10647	6,832783	-0,44467	0,673687	0,745523	-7,30014
LRRC37BP1	-0,15415	4,616919	-0,44443	0,673848	0,745643	-7,30026
CDV3	0,062441	9,563474	0,444297	0,673939	0,745685	-7,30033
ECHDC3	-0,41504	1,792481	-0,44382	0,674265	0,745987	-7,30057
RELL1	0,225013	4,184755	0,443145	0,674722	0,746435	-7,30091
ZNF781	0,130772	2,701016	0,44263	0,675072	0,746705	-7,30117
TMEM8B	-0,63402	3,587737	-0,44263	0,675072	0,746705	-7,30117
ZNF330	0,095187	7,65727	0,442181	0,675378	0,746984	-7,3014
NOL8	0,080375	8,592385	0,441419	0,675896	0,7475	-7,30178
PTCH1	0,149754	5,438489	0,440989	0,676189	0,747765	-7,302
NCAPG	0,407464	2,172696	0,440756	0,676348	0,747882	-7,30211
VAV1	-0,07664	6,906804	-0,44035	0,676626	0,748131	-7,30232
PLL1	0,479135	2,101222	0,439791	0,677004	0,748491	-7,3026
CEP76	-0,26413	4,688214	-0,43961	0,677127	0,748568	-7,30269
TNFRSF10C	-0,29875	5,45868	-0,43953	0,677184	0,748573	-7,30273
DBP	0,096711	4,340784	0,439041	0,677515	0,74888	-7,30297
CLPP	-0,24037	5,994853	-0,43887	0,677631	0,748949	-7,30306
OSBPL8	-0,05935	9,966216	-0,4384	0,677951	0,749244	-7,30329
SYCP3	-0,28267	1,581976	-0,43827	0,678042	0,749247	-7,30336

PRKAB1	-0,13902	5,865066	-0,43824	0,67806	0,749247	-7,30337
MAP2K7	0,147412	6,83794	0,438115	0,678147	0,749285	-7,30343
ZFYVE26	-0,17943	4,994751	-0,43777	0,678382	0,749486	-7,30361
DR1	0,053907	8,833769	0,436027	0,679571	0,750741	-7,30447
HGS	0,079977	5,775889	0,435025	0,680255	0,751438	-7,30497
FLAD1	-0,19276	5,650304	-0,43479	0,680418	0,751559	-7,30509
IFT122	-0,13835	3,394933	-0,43469	0,680483	0,751572	-7,30514
PITPNA	0,070371	7,909966	0,434104	0,680884	0,751957	-7,30543
HAUS1	-0,07588	5,462342	-0,43323	0,681484	0,75256	-7,30586
CDCA7L	0,21504	5,18593	0,432696	0,681846	0,752902	-7,30612
CCDC73	-0,33333	2,297439	-0,43242	0,682033	0,753049	-7,30626
BRCC3	0,102346	7,146332	0,432237	0,68216	0,753114	-7,30635
SS18L1	-0,10007	5,796189	-0,43218	0,682198	0,753114	-7,30638
CLYBL	-0,18753	4,690548	-0,43195	0,682356	0,753229	-7,30649
UBR2	0,064099	8,584675	0,431196	0,682872	0,75374	-7,30686
CASP8	0,057987	9,220706	0,430784	0,683154	0,753992	-7,30706
TNPO1	-0,05606	8,931669	-0,43037	0,683435	0,754244	-7,30727
CDK12	-0,07106	8,300968	-0,42977	0,683844	0,75458	-7,30756
TSPAN18	-0,53292	2,833275	-0,42977	0,683846	0,75458	-7,30756
DDX46	0,063263	9,731155	0,428925	0,684426	0,755117	-7,30798
GPR22	0,138346	1,459148	0,428828	0,684493	0,755117	-7,30802
S100Z	0,138346	1,459148	0,428828	0,684493	0,755117	-7,30802
RNF169	-0,06232	6,844001	-0,42858	0,684665	0,7552	-7,30815
COBLL1	0,083572	5,796154	0,428561	0,684675	0,7552	-7,30815
SNAPC4	0,176165	4,600165	0,428188	0,684931	0,755423	-7,30834
HIST1H4C	0,090518	8,849942	0,426991	0,685751	0,756266	-7,30892
POLA1	-0,1337	5,677342	-0,42692	0,685803	0,756266	-7,30896
ZNF687	-0,06805	4,589431	-0,4251	0,687046	0,757578	-7,30984
SPATA5L1	-0,14678	3,854822	-0,42486	0,687212	0,757702	-7,30995
PIH1D1	-0,09915	7,1275	-0,42473	0,687303	0,757744	-7,31002
MR1	-0,0688	6,610976	-0,42464	0,687362	0,75775	-7,31006
ZDHHC18	-0,07955	5,818424	-0,42396	0,687834	0,75821	-7,31039
MDH1	-0,06223	8,436425	-0,42315	0,68839	0,758764	-7,31079
ZNF746	0,08108	6,255041	0,423032	0,688468	0,758791	-7,31084
FAM161A	0,283058	4,277993	0,422443	0,688873	0,759178	-7,31112
MAPK1IP1I	-0,05507	9,098251	-0,42218	0,689054	0,759319	-7,31125
UNC119	0,06787	6,934726	0,421819	0,689301	0,759532	-7,31143
RTN4IP1	0,119107	3,812016	0,420692	0,690076	0,760326	-7,31197
PPP1R3D	0,077136	6,05954	0,420481	0,690221	0,760427	-7,31207
TM2D1	0,056621	8,673266	0,420153	0,690447	0,760616	-7,31223
RMI2	-0,2592	4,16129	-0,41981	0,690682	0,760816	-7,31239
AP3S2	0,145709	5,689885	0,419704	0,690756	0,760838	-7,31244
RALGDS	-0,08963	8,503267	-0,41957	0,690844	0,760876	-7,3125
GPR161	-0,49514	2,569499	-0,41907	0,691194	0,761101	-7,31275
GPC2	0,514774	2,452374	0,419066	0,691195	0,761101	-7,31275
FBXL12	0,069808	6,379785	0,419043	0,69121	0,761101	-7,31276
ATRX	-0,05684	10,76556	-0,41875	0,691411	0,761263	-7,3129
PPP1R14B	-0,08542	6,249755	-0,41811	0,691856	0,761693	-7,31321
PLD1	0,133627	4,646424	0,417964	0,691953	0,761741	-7,31327
CRADD	-0,10687	4,090047	-0,41754	0,692245	0,762004	-7,31348
TTC12	0,293863	3,74181	0,416154	0,6932	0,762995	-7,31414
LSM3	-0,10461	6,995555	-0,416	0,693306	0,763052	-7,31421

AKAP10	-0,07937	7,507182	-0,41508	0,693942	0,763693	-7,31465
DDX27	-0,06978	8,745375	-0,41479	0,694137	0,763834	-7,31478
C14orf119	-0,0552	7,080293	-0,41473	0,694178	0,763834	-7,31481
TMEM71	0,070737	6,749657	0,414064	0,694641	0,764283	-7,31513
GPX7	-0,20841	4,060995	-0,41396	0,69471	0,7643	-7,31518
IFT52	0,132449	5,261603	0,41379	0,694829	0,764372	-7,31526
SLC35E4	0,140488	2,53435	0,413153	0,695269	0,764796	-7,31556
ZSWIM7	-0,08746	6,220567	-0,41289	0,695453	0,764831	-7,31569
VPS4A	-0,09614	6,549942	-0,41286	0,695469	0,764831	-7,3157
KLHL9	-0,06637	7,760008	-0,41286	0,695469	0,764831	-7,3157
FEM1C	0,108932	5,616533	0,412794	0,695517	0,764831	-7,31573
WNT7A	-0,49917	2,140392	-0,41162	0,696329	0,765648	-7,31628
CHMP5	0,058185	8,240299	0,41156	0,696369	0,765648	-7,31631
FIS1	-0,11289	5,429209	-0,40998	0,697464	0,766792	-7,31706
ESD	-0,07642	7,396677	-0,4092	0,697999	0,767285	-7,31742
DPH3	0,088165	6,335315	0,40917	0,69802	0,767285	-7,31743
VAV2	0,1361	5,111144	0,408669	0,698367	0,767607	-7,31767
NDUFB5	-0,05734	7,962938	-0,40789	0,698907	0,76814	-7,31803
PRRT1	-0,33333	1,556642	-0,40675	0,699695	0,768947	-7,31856
BCORP1	0,193105	4,096553	0,406667	0,699752	0,768949	-7,3186
P4HTM	-0,16966	4,799078	-0,40636	0,699968	0,769127	-7,31875
ZNF462	-0,34688	1,883201	-0,40621	0,700065	0,769174	-7,31881
NOL3	0,315844	2,53435	0,406	0,700214	0,76924	-7,31891
PTPRN2	0,194988	2,894933	0,405971	0,700234	0,76924	-7,31893
HERC4	0,074094	7,800063	0,405651	0,700455	0,769423	-7,31907
TBKBP1	-0,16371	4,622235	-0,40496	0,700932	0,769886	-7,31939
SOCS3	-0,15016	7,273384	-0,40452	0,701238	0,770163	-7,3196
ZNF71	0,165908	4,591746	0,404297	0,701393	0,770274	-7,3197
BEST4	0,500833	1,112071	0,404154	0,701492	0,770323	-7,31977
ANKRD37	-0,29715	5,551322	-0,40301	0,702287	0,771136	-7,3203
ZNF81	-0,26343	2,934844	-0,40289	0,702366	0,771162	-7,32035
CEP152	-0,06703	6,987493	-0,40276	0,702456	0,771202	-7,32041
FBXL16	-0,14464	6,027952	-0,40234	0,702751	0,771465	-7,32061
NDUFB8	0,071041	7,969794	0,402068	0,702939	0,771611	-7,32073
CCDC115	-0,06707	8,198644	-0,40103	0,703659	0,772342	-7,32121
FOXJ2	0,068568	7,739837	0,400823	0,703802	0,772439	-7,3213
VAR52	0,312091	3,602662	0,400709	0,703882	0,772467	-7,32136
FASTKD1	0,107176	6,715491	0,400345	0,704135	0,772656	-7,32152
AEBP1	-0,28267	1,689285	-0,40022	0,704219	0,772656	-7,32158
TTLL11	-0,28267	1,689285	-0,40022	0,704219	0,772656	-7,32158
MRPL3	-0,0727	7,249571	-0,40008	0,704321	0,772708	-7,32165
EXD3	-0,20451	3,252659	-0,39996	0,704402	0,772737	-7,3217
CD59	0,092188	6,451401	0,398479	0,705431	0,773805	-7,32238
PSMD3	-0,08805	7,972804	-0,3984	0,705485	0,773805	-7,32241
RABGGTB	0,05819	7,645046	0,398315	0,705545	0,773811	-7,32245
NCAM2	0,45419	1,16288	0,398205	0,705621	0,773834	-7,3225
AFG3L2	-0,06918	6,864544	-0,39769	0,705976	0,774164	-7,32274
HIST1H2BC	0,279669	4,403284	0,397374	0,706199	0,774348	-7,32288
HCG11	-0,09837	5,587386	-0,39725	0,706286	0,774384	-7,32294
FGFRL1	0,131862	3,970679	0,397092	0,706395	0,774443	-7,32301
C1orf56	-0,16072	3,180095	-0,39692	0,706513	0,774513	-7,32309
ELK1	-0,16375	5,94601	-0,39669	0,706677	0,774632	-7,32319

B4GALT1	0,067371	9,385099	0,396533	0,706783	0,774689	-7,32326
HECTD2	-0,17152	3,311669	-0,39601	0,707147	0,775026	-7,3235
DDB1	-0,05134	8,818752	-0,3957	0,707361	0,775201	-7,32364
CXorf38	0,076659	7,38688	0,395338	0,707614	0,775419	-7,32381
COX6C	0,069493	9,635287	0,395177	0,707727	0,775482	-7,32388
PGRMC2	0,115345	7,142511	0,395016	0,707838	0,775544	-7,32395
SRR	-0,37566	3,176424	-0,39477	0,70801	0,775672	-7,32406
HADHA	-0,05113	8,190079	-0,39466	0,708085	0,775694	-7,32411
EIF4A3	0,054094	8,139708	0,393802	0,708684	0,77629	-7,3245
TFB2M	-0,11718	4,887534	-0,3935	0,708896	0,776462	-7,32464
HOXC4	-0,13835	3,982433	-0,39324	0,709073	0,776596	-7,32475
IBA57	-0,1775	3,572486	-0,39305	0,709205	0,77668	-7,32484
BRPF1	-0,07583	6,661299	-0,3918	0,71008	0,777578	-7,3254
ABCB9	0,356796	1,285708	0,39121	0,71049	0,777967	-7,32567
SMG8	-0,1646	3,727848	-0,3908	0,710777	0,778221	-7,32585
HDLBP	0,050836	8,187497	0,389668	0,711565	0,779023	-7,32636
GPA33	-0,536	3,435278	-0,38929	0,711828	0,779204	-7,32653
GIPC3	0,302297	1,151148	0,388958	0,71206	0,779204	-7,32668
HESX1	-0,3023	1,151148	-0,38896	0,71206	0,779204	-7,32668
ITGB1BP2	-0,3023	1,151148	-0,38896	0,71206	0,779204	-7,32668
PROS1	-0,3023	1,151148	-0,38896	0,71206	0,779204	-7,32668
SYBU	-0,3023	1,151148	-0,38896	0,71206	0,779204	-7,32668
NSD1	-0,07225	8,08907	-0,38754	0,71305	0,780191	-7,32731
NLGN2	0,194988	0,76416	0,387428	0,713128	0,780191	-7,32736
SPTSSB	0,194988	0,76416	0,387428	0,713128	0,780191	-7,32736
AGPAT5	-0,06484	7,51804	-0,38732	0,713202	0,780211	-7,3274
PPP4R4	0,395289	1,97162	0,386881	0,713511	0,780488	-7,3276
ANKRD26	0,066548	7,825343	0,386737	0,713611	0,780538	-7,32766
IFT57	0,123005	6,65679	0,386644	0,713676	0,780548	-7,3277
DENND1C	0,097723	5,205525	0,386275	0,713933	0,78077	-7,32787
MON2	0,066058	7,169183	0,386099	0,714057	0,780844	-7,32795
KANK1	-0,07019	4,078189	-0,385	0,714822	0,781621	-7,32843
HMGN3	-0,05039	8,065463	-0,38476	0,714995	0,78175	-7,32854
DCDC1	0,490107	2,440041	0,384658	0,715064	0,781764	-7,32858
BEX4	-0,06941	6,929548	-0,38434	0,715285	0,781945	-7,32872
CASP3	-0,05991	6,277376	-0,3842	0,715387	0,781968	-7,32879
CHCHD6	-0,3023	1,817815	-0,38415	0,715417	0,781968	-7,32881
06-set	-0,05379	9,666077	-0,3833	0,716012	0,782558	-7,32918
TFCP2	0,075431	7,747208	0,383191	0,71609	0,782583	-7,32923
IGFBP3	-0,27735	3,307941	-0,38273	0,716413	0,782876	-7,32943
INSR	-0,13418	5,719426	-0,38185	0,717032	0,783491	-7,32982
ZBED4	0,089323	7,057326	0,381531	0,717252	0,783612	-7,32996
TMEM200A	0,319786	2,216535	0,381529	0,717253	0,783612	-7,32996
TM2D2	-0,09204	6,545742	-0,38134	0,717387	0,783697	-7,33004
DHX29	0,073501	7,632911	0,381131	0,717531	0,783719	-7,33014
ATG4C	0,056872	6,980938	0,38111	0,717546	0,783719	-7,33014
RARS2	-0,12717	6,498397	-0,38107	0,717573	0,783719	-7,33016
HNRNPF	-0,05381	9,822832	-0,38048	0,717989	0,784113	-7,33042
TMC6	-0,12892	6,618205	-0,38034	0,718086	0,784158	-7,33048
SLC35E1	0,065725	7,637525	0,380064	0,718279	0,784308	-7,3306
PDGFD	0,109847	4,242338	0,379655	0,718566	0,784561	-7,33078
ZNF273	-0,10885	5,150327	-0,37941	0,71874	0,784662	-7,33089

TRPM6	0,277783	2,594332	0,379364	0,718769	0,784662	-7,33091
POU2F1	-0,06892	7,570888	-0,3788	0,719166	0,785034	-7,33115
ATP13A2	-0,44201	2,597435	-0,37863	0,719284	0,785103	-7,33123
CCL7	-0,35826	3,633109	-0,37854	0,719346	0,785109	-7,33127
MRPL35	-0,06999	6,476575	-0,37806	0,719682	0,785355	-7,33147
RBM14	0,096492	6,305013	0,37805	0,719691	0,785355	-7,33148
POU5F2	-0,28267	1,581976	-0,37798	0,719737	0,785355	-7,33151
SCRN1	0,054144	5,742807	0,377679	0,719951	0,785527	-7,33164
PPP2R3A	-0,47937	2,998395	-0,37736	0,720174	0,785619	-7,33178
SCAF1	-0,47937	2,998395	-0,37736	0,720174	0,785619	-7,33178
STAT3	0,062339	8,068715	0,377321	0,720202	0,785619	-7,3318
NAB1	-0,07433	6,343222	-0,37724	0,720262	0,785624	-7,33183
GP5	0,384001	1,581976	0,377147	0,720324	0,785631	-7,33187
THOC7	0,063503	8,224362	0,376976	0,720444	0,785699	-7,33194
KLRG1	0,107663	6,54981	0,3769	0,720497	0,785699	-7,33198
UNC119B	-0,21506	4,476386	-0,37644	0,720823	0,785863	-7,33218
SEMA6C	-0,36437	2,346136	-0,37627	0,720936	0,785863	-7,33225
APH1A	0,058387	9,428367	0,376151	0,721023	0,785863	-7,3323
NDUFS2	-0,08189	7,334191	-0,37609	0,721063	0,785863	-7,33233
ADM2	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
GAS2	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
GTSF1	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
AJUBA	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
FAM167A	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
ST7-OT4	-0,33333	0,940643	-0,37581	0,721259	0,785863	-7,33245
STC1	0,333333	0,940643	0,375814	0,721259	0,785863	-7,33245
ENOSF1	-0,09489	6,378367	-0,37534	0,721593	0,786166	-7,33265
PTK7	-0,24566	1,317815	-0,37469	0,72205	0,786543	-7,33293
TNK1	-0,24566	1,317815	-0,37469	0,72205	0,786543	-7,33293
GOLPH3	-0,04953	8,274445	-0,37458	0,722126	0,786565	-7,33298
NFIX	0,087511	5,130398	0,374347	0,722289	0,786682	-7,33308
PHF1	-0,08085	6,839848	-0,3742	0,722391	0,786733	-7,33314
TMIGD2	-0,22817	3,049868	-0,37299	0,723246	0,787569	-7,33367
UBE2B	-0,05116	9,421179	-0,37295	0,723271	0,787569	-7,33368
02-set	-0,05884	8,67013	-0,37244	0,723632	0,787902	-7,3339
ZNF366	-0,3137	1,704803	-0,37139	0,724366	0,78864	-7,33435
THAP9	-0,36651	1,980695	-0,37099	0,724651	0,788889	-7,33452
TRNT1	-0,0575	6,230336	-0,37081	0,724775	0,788937	-7,3346
NUDT5	-0,09585	6,768734	-0,37077	0,724806	0,788937	-7,33461
SHISA2	0,269118	1,329547	0,370533	0,72497	0,789055	-7,33471
CTC1	0,105224	5,957327	0,369878	0,725431	0,789495	-7,33499
FAM208B	0,072028	7,580667	0,368855	0,726151	0,790218	-7,33543
PIGT	-0,07841	6,345151	-0,36872	0,726244	0,790225	-7,33548
EXOSC10	-0,09728	6,070711	-0,36869	0,726269	0,790225	-7,3355
UNC79	0,333333	2,13563	0,368563	0,726357	0,79026	-7,33555
CROCCP2	0,068636	6,706606	0,367918	0,726811	0,790693	-7,33582
ACTR3B	0,166826	4,183149	0,36693	0,727507	0,791389	-7,33624
HSF4	-0,36651	1,119041	-0,36605	0,728129	0,791965	-7,33661
RNF216P1	-0,09889	6,136761	-0,36579	0,728309	0,791965	-7,33672
CHAC2	-0,33333	1,833333	-0,36572	0,728359	0,791965	-7,33675
SLC27A2	0,333333	1,166667	0,365721	0,728359	0,791965	-7,33675
TEX101	-0,33333	1,166667	-0,36572	0,728359	0,791965	-7,33675

GXYLT2	0,407464	1,39872	0,365701	0,728373	0,791965	-7,33676
SLC25A15	0,122577	4,755782	0,36532	0,728641	0,792138	-7,33692
VTA1	-0,05027	7,863857	-0,36532	0,728644	0,792138	-7,33692
ANAPC16	0,063426	8,343067	0,363862	0,72967	0,793193	-7,33753
TBC1D13	0,055055	5,849532	0,36376	0,729742	0,79321	-7,33758
SPPL2B	0,170878	5,409586	0,363559	0,729883	0,793303	-7,33766
ITPR3	-0,06173	6,215334	-0,36348	0,729942	0,793305	-7,33769
LRRC41	0,056212	6,134905	0,362894	0,730353	0,793691	-7,33794
MRPS7	0,052105	7,348384	0,361947	0,731021	0,794356	-7,33833
ZC2HC1A	0,094117	6,674646	0,361827	0,731106	0,794387	-7,33838
MALSU1	-0,06841	6,489396	-0,36119	0,731554	0,794813	-7,33865
PSMB7	-0,07568	6,436937	-0,36082	0,731814	0,795035	-7,3388
SBF2	0,062923	6,773183	0,360392	0,732119	0,795305	-7,33898
AKNA	-0,08598	9,377275	-0,35991	0,732461	0,795615	-7,33918
ZNF853	-0,19499	2,066457	-0,35957	0,732701	0,795813	-7,33932
DSTYK	0,072747	7,09491	0,359491	0,732756	0,795813	-7,33935
KAT2A	-0,07776	4,899046	-0,359	0,733101	0,796126	-7,33956
FAM161B	-0,2592	2,260374	-0,3577	0,734019	0,796224	-7,34009
ABCD4	-0,12878	5,602158	-0,35717	0,734401	0,796224	-7,34031
ATXN2L	0,097137	8,111711	0,356518	0,734858	0,796224	-7,34058
SLAMF6	0,068534	6,2526	0,356205	0,73508	0,796224	-7,34071
FASTKD3	0,076273	4,799937	0,355668	0,73546	0,796224	-7,34093
ADAMTS13	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
ANLN	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
ARHGAP33	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
B3GNT4	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
C1orf220	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
C8A	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
CADPS2	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
CALN1	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
CDR2L	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
CKB	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
DLX6	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
ELANE	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
FAM153C	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
FLT3LG	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
FRK	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
GDNF	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
ITPKA	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
KLK1	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
LIN28B	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
LPP-AS2	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
MACROD1	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
NANOGNB	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
OR52H1	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
PCDH10	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
PGLYRP2	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
PON3	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
PTCH2	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
REP15	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
RGS6	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
RLN1	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105

RNF222	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
SCG5	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
SEZ6L	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
SNORD92	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
STXBP5L	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
TMEM132C	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
TREML2	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
YY2	-0,19499	0,430827	-0,35537	0,735669	0,796224	-7,34105
ZMAT4	0,194988	0,430827	0,355373	0,735669	0,796224	-7,34105
CNTN5	-0,40746	1,260374	-0,35466	0,736173	0,796708	-7,34134
SUMO4	0,098498	4,191687	0,354239	0,736472	0,796971	-7,34151
DCTD	-0,06243	6,286277	-0,35404	0,73661	0,797059	-7,34159
FTX	-0,08224	8,298102	-0,35371	0,736847	0,797254	-7,34173
GGT1	-0,10731	2,022618	-0,3536	0,736923	0,797276	-7,34177
KANSL1L	0,073834	5,648226	0,353406	0,737062	0,797365	-7,34185
EOMES	0,095546	7,151601	0,352051	0,738023	0,798343	-7,3424
PRPF40A	0,047745	10,54264	0,351026	0,73875	0,798966	-7,34282
SECISBP2L	-0,04903	8,527424	-0,35101	0,738758	0,798966	-7,34282
CDK4	-0,08262	5,803709	-0,351	0,738768	0,798966	-7,34283
C20orf197	0,407464	1,065386	0,350028	0,739458	0,799599	-7,34322
MED14	0,081524	6,989858	0,34994	0,73952	0,799599	-7,34326
KIF20B	0,05629	7,840852	0,349936	0,739523	0,799599	-7,34326
HTRA4	-0,43007	3,056224	-0,34932	0,739962	0,800012	-7,34351
RPS6KB2	-0,09852	5,925505	-0,34906	0,740143	0,800147	-7,34361
IL1A	0,322526	2,325214	0,34852	0,740527	0,800362	-7,34383
IRF2BP1	-0,22602	1,415309	-0,34838	0,74063	0,800362	-7,34389
PATE2	0,226024	1,415309	0,348375	0,74063	0,800362	-7,34389
PGBD1	-0,22602	1,415309	-0,34838	0,74063	0,800362	-7,34389
EVC2	0,226024	1,415309	0,348375	0,74063	0,800362	-7,34389
FUZ	-0,3023	2,384628	-0,3483	0,740681	0,800362	-7,34392
DCUN1D5	-0,07045	4,964305	-0,34813	0,740804	0,800371	-7,34399
CADM4	-0,28267	0,915309	-0,34805	0,74086	0,800371	-7,34402
RAD54B	-0,28267	0,915309	-0,34805	0,74086	0,800371	-7,34402
ZNF681	0,312866	3,566039	0,347464	0,741278	0,800724	-7,34426
CYP27B1	-0,19499	1,292481	-0,34735	0,741356	0,800724	-7,3443
NEFL	-0,19499	1,292481	-0,34735	0,741356	0,800724	-7,3443
ORMDL1	-0,05289	8,892881	-0,347	0,741608	0,800935	-7,34444
HM13	-0,06561	7,739545	-0,34628	0,74212	0,801269	-7,34473
HSPA12A	-0,24566	0,984482	-0,34607	0,74227	0,801269	-7,34481
QRICH2	0,245655	0,984482	0,346067	0,74227	0,801269	-7,34481
SPAG8	-0,24566	0,984482	-0,34607	0,74227	0,801269	-7,34481
ZNF135	-0,24566	0,984482	-0,34607	0,74227	0,801269	-7,34481
EIF3L	0,245655	0,984482	0,346067	0,74227	0,801269	-7,34481
ZC3H3	-0,23509	3,292063	-0,346	0,742315	0,801269	-7,34484
FOXO3	-0,0872	6,561955	-0,34587	0,742411	0,801285	-7,34489
ARMCX4	0,30713	3,558338	0,345824	0,742443	0,801285	-7,34491
BCL2L15	-0,22602	1,220321	-0,34541	0,742737	0,801541	-7,34508
ATF2	0,055146	7,197461	0,345094	0,742962	0,801723	-7,3452
SERINC3	-0,04679	9,652847	-0,345	0,743025	0,80173	-7,34524
DYNC1LI2	-0,05205	8,419242	-0,34426	0,743552	0,802198	-7,34553
GGA2	0,042195	7,530899	0,344235	0,743572	0,802198	-7,34554
HBG2	-0,45419	1,496213	-0,34399	0,743743	0,802321	-7,34564

POLR3GL	-0,07283	8,152249	-0,34277	0,744613	0,803198	-7,34612
ALG13	0,065236	6,647618	0,342331	0,744927	0,803475	-7,3463
NOC2L	-0,20246	4,586341	-0,34207	0,745116	0,803618	-7,3464
ANAPC10	0,081298	5,765208	0,339697	0,746803	0,805375	-7,34734
E2F6	0,131976	4,979248	0,339519	0,746929	0,80545	-7,34741
TBC1D10B	-0,10398	4,488388	-0,33905	0,747265	0,805751	-7,34759
MGMT	0,055224	6,09909	0,338686	0,747523	0,805968	-7,34773
ADAR	0,044104	9,192946	0,338543	0,747625	0,806016	-7,34779
MTMR9	-0,05667	7,481011	-0,33829	0,747804	0,806066	-7,34789
CMAHP	-0,12305	6,015484	-0,3382	0,747869	0,806066	-7,34792
DNAJB2	0,154016	5,575616	0,33816	0,747898	0,806066	-7,34794
MPPE1	0,060546	6,210432	0,338158	0,747899	0,806066	-7,34794
MUS81	-0,06995	6,504653	-0,33719	0,748587	0,806746	-7,34831
ZYG11B	0,05434	8,262538	0,336681	0,748953	0,807078	-7,34851
PROCA1	-0,40746	2,701016	-0,33658	0,749024	0,807093	-7,34855
ZDHHC4	0,10828	5,256352	0,336204	0,749293	0,807322	-7,3487
KIF20A	-0,22602	0,886988	-0,33527	0,749957	0,807914	-7,34906
TSSK6	-0,22602	0,886988	-0,33527	0,749957	0,807914	-7,34906
CBY1	-0,45665	3,34309	-0,33508	0,750094	0,807986	-7,34913
CAMKK1	0,157977	3,071415	0,33502	0,750138	0,807986	-7,34916
FKBP7	0,194988	2,066457	0,334083	0,750807	0,808645	-7,34952
SCMH1	-0,14432	3,115254	-0,33387	0,750958	0,808746	-7,3496
CATSPERG	-0,22219	2,965177	-0,33352	0,751209	0,808955	-7,34974
TRMT2A	0,086192	4,004486	0,33309	0,751516	0,809223	-7,3499
MOSPD2	-0,06904	7,132582	-0,33145	0,752687	0,810417	-7,35053
CA5B	-0,10709	6,521799	-0,33138	0,752739	0,810417	-7,35056
SRSF1	0,055778	8,72772	0,330882	0,753093	0,810737	-7,35075
IGSF8	-0,11609	4,419206	-0,33069	0,753231	0,810784	-7,35082
SPCS2	0,088774	5,611652	0,330618	0,753282	0,810784	-7,35085
ZNF718	0,17271	4,080924	0,33051	0,75336	0,810784	-7,35089
COL5A3	0,389975	1,194988	0,3305	0,753366	0,810784	-7,3509
MID2	0,278834	2,075202	0,330127	0,753634	0,810979	-7,35104
GPR89A	0,245655	2,586933	0,330086	0,753663	0,810979	-7,35106
METTL13	-0,14662	5,598175	-0,32923	0,754277	0,811578	-7,35138
WDR24	-0,25163	1,459148	-0,32876	0,754608	0,811873	-7,35156
G3BP1	-0,04187	9,532599	-0,32843	0,754848	0,812069	-7,35169
AP3D1	0,044421	8,49912	0,3282	0,755012	0,812183	-7,35177
FANK1	0,371826	1,047567	0,327428	0,755564	0,812716	-7,35207
FBXO9	0,040367	8,387452	0,327119	0,755786	0,812892	-7,35218
RFESD	-0,1412	3,170336	-0,32689	0,755951	0,812969	-7,35227
OSBPL2	-0,08432	6,343017	-0,32686	0,755972	0,812969	-7,35228
TTI1	0,066436	4,723985	0,325496	0,756948	0,813957	-7,3528
SDHAF2	0,066582	6,510065	0,325294	0,757092	0,81405	-7,35287
ATAD5	-0,09244	5,898421	-0,32428	0,757818	0,814768	-7,35325
SOCS4	0,049789	6,114299	0,323866	0,758116	0,815026	-7,35341
TBK1	-0,05639	7,182298	-0,32373	0,758217	0,81505	-7,35346
SPSB2	-0,12972	4,888836	-0,32368	0,758253	0,81505	-7,35348
JAKMIP1	-0,32258	4,461328	-0,32344	0,758423	0,815171	-7,35357
KIF22	-0,13738	5,891986	-0,32326	0,758553	0,815249	-7,35364
MYO1D	0,206393	4,439923	0,32247	0,759117	0,815762	-7,35393
SV2A	0,302297	1,679469	0,322429	0,759146	0,815762	-7,35394
SETDB1	-0,07333	5,988942	-0,32182	0,75958	0,816166	-7,35417

GTF2H2B	0,300155	1,452374	0,321667	0,759693	0,816225	-7,35423
SETD3	-0,0688	7,406662	-0,32156	0,759766	0,816242	-7,35427
PMS2	0,112967	3,856777	0,321475	0,759831	0,816249	-7,3543
CHMP4B	0,048552	9,028196	0,320508	0,760525	0,816867	-7,35466
DNAH1	0,1675	3,321832	0,320488	0,760539	0,816867	-7,35467
STX18	0,110856	5,291214	0,32041	0,760595	0,816867	-7,3547
PSMD2	-0,04773	7,85708	-0,32035	0,760637	0,816867	-7,35472
SCRIB	-0,12311	5,512536	-0,3197	0,761105	0,817308	-7,35496
TACC3	0,078627	6,827297	0,319312	0,761383	0,817544	-7,3551
ADPGK	0,058692	7,495669	0,318538	0,761939	0,818079	-7,35539
FUNDC2	0,246328	4,811412	0,318367	0,762062	0,818149	-7,35545
NCALD	-0,17268	5,028193	-0,31777	0,762487	0,818543	-7,35567
TMEM106C	-0,21823	4,390292	-0,31747	0,762703	0,818683	-7,35578
PRDM11	-0,18173	3,853434	-0,31743	0,762733	0,818683	-7,3558
BRK1	-0,06735	7,401364	-0,31719	0,762904	0,818768	-7,35588
STIP1	-0,07661	6,726944	-0,31716	0,762932	0,818768	-7,3559
USP27X	-0,07714	5,169811	-0,31708	0,762987	0,818768	-7,35592
NDUFB1	0,041885	8,611217	0,316615	0,76332	0,819012	-7,3561
UNG	-0,07789	6,406366	-0,3166	0,763329	0,819012	-7,3561
ALKBH3	-0,28653	4,210639	-0,31632	0,763535	0,819159	-7,3562
HLA-DOB	-0,23158	3,776786	-0,31625	0,763582	0,819159	-7,35623
BOLA3	-0,08348	5,94651	-0,31616	0,763649	0,819168	-7,35626
NMB	-0,37726	2,803795	-0,31587	0,763859	0,819323	-7,35637
ZNF598	0,053226	5,548016	0,315796	0,763909	0,819323	-7,3564
NUDT4	0,060295	7,439615	0,315133	0,764386	0,819772	-7,35664
VNN3	-0,2592	2,260374	-0,31405	0,765164	0,820544	-7,35703
KIF3A	0,058021	7,419206	0,313411	0,765625	0,820976	-7,35726
AMZ1	-0,42101	1,758458	-0,31308	0,765865	0,821171	-7,35739
AAGAB	-0,04941	6,850605	-0,31258	0,76622	0,821489	-7,35756
MSX2	0,276692	1,194988	0,311126	0,76727	0,822553	-7,35809
MYZAP	-0,38252	2,532049	-0,3098	0,768224	0,823514	-7,35857
TYSND1	0,148737	5,224472	0,308875	0,768891	0,824166	-7,3589
MOGS	0,091227	5,168404	0,308769	0,768968	0,824186	-7,35894
FOSL2	-0,08948	8,127489	-0,30783	0,769644	0,824848	-7,35927
ACO2	-0,0545	7,284832	-0,30734	0,77	0,825167	-7,35945
POP7	0,065348	6,757847	0,307126	0,770152	0,825268	-7,35952
MEAF6	-0,05503	8,03927	-0,30612	0,770881	0,825986	-7,35988
CSNK1E	0,090911	6,327673	0,305894	0,771041	0,826095	-7,35996
PNO1	0,088996	5,932499	0,305514	0,771316	0,826326	-7,3601
SAAL1	0,066035	5,984293	0,305263	0,771497	0,826458	-7,36019
TMEM173	-0,08741	5,562839	-0,30492	0,771746	0,826647	-7,36031
SERP1	0,041809	9,713111	0,304856	0,77179	0,826647	-7,36033
C2CD4A	-0,24566	0,651148	-0,30248	0,773506	0,827804	-7,36117
CELA1	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
DPY19L2P3	-0,24566	0,651148	-0,30248	0,773506	0,827804	-7,36117
FSTL4	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
KCNU1	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
OR2AG1	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
PCDHA12	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
RAPGEFL1	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
RARRES1	0,245655	0,651148	0,30248	0,773506	0,827804	-7,36117
RASSF9	-0,24566	0,651148	-0,30248	0,773506	0,827804	-7,36117

TBC1D22A	0,069948	7,092123	0,302414	0,773553	0,827804	-7,36119
LAPTM5	-0,04068	10,60816	-0,30232	0,773623	0,827804	-7,36122
RREB1	-0,05792	6,817449	-0,30222	0,773695	0,827804	-7,36126
FAM171A1	0,092358	3,917749	0,302204	0,773706	0,827804	-7,36126
HSD17B13	-0,22817	1,716535	-0,30214	0,77375	0,827804	-7,36128
GDI1	0,070634	5,699438	0,30196	0,773882	0,827883	-7,36135
WSB1	0,038813	10,13001	0,3011	0,774504	0,828486	-7,36165
CDC6	-0,22602	1,415309	-0,30091	0,774641	0,828569	-7,36172
ALKBH2	0,229254	4,381863	0,300683	0,774804	0,828682	-7,3618
GPR146	-0,3035	3,170178	-0,30058	0,774876	0,828695	-7,36183
NDUFB10	0,101081	6,818136	0,300142	0,775196	0,828923	-7,36198
CELSR1	-0,3023	2,420267	-0,30013	0,775205	0,828923	-7,36199
ARSK	0,088808	4,45596	0,299416	0,775721	0,829411	-7,36224
HSD17B7P	-0,24566	1,70779	-0,29924	0,775849	0,829485	-7,3623
ST8SIA6	0,245655	1,317815	0,299054	0,775983	0,829566	-7,36236
COX7A2	0,04205	8,608253	0,298832	0,776143	0,829674	-7,36244
DACT3	0,300155	1,785708	0,298644	0,776279	0,829757	-7,3625
POLR2K	0,056835	7,341052	0,298097	0,776675	0,830117	-7,36269
MAP3K14	-0,14503	5,053537	-0,29794	0,776792	0,830179	-7,36275
DLX6-AS1	0,302297	2,012803	0,297395	0,777183	0,830534	-7,36294
MRPS18C	0,076424	6,888526	0,2973	0,777252	0,830545	-7,36297
PLK1	0,321158	2,129543	0,296701	0,777685	0,830945	-7,36318
ARL5A	0,045891	7,15171	0,295744	0,778378	0,831623	-7,3635
AP2A1	0,07231	4,884899	0,295441	0,778597	0,83169	-7,36361
MDM1	0,051889	6,494564	0,295333	0,778676	0,83169	-7,36365
RAVER1	-0,10526	5,14703	-0,29528	0,778714	0,83169	-7,36366
NCS1	0,212477	2,936856	0,295255	0,778732	0,83169	-7,36367
SPEN	-0,04723	9,059839	-0,29525	0,778735	0,83169	-7,36367
ATP13A1	0,164034	4,13991	0,295057	0,778875	0,831777	-7,36374
LRRC37A2	0,30987	1,619041	0,294674	0,779153	0,832011	-7,36387
ATP9B	0,076743	6,006865	0,294266	0,779448	0,832259	-7,36401
UBE3C	-0,03917	7,934908	-0,29419	0,779503	0,832259	-7,36404
MIR320D1	0,389692	2,715594	0,293895	0,779717	0,832425	-7,36414
TSC1	-0,0582	7,923341	-0,2934	0,780076	0,832745	-7,36431
SNX14	-0,03939	8,598669	-0,29332	0,780137	0,832747	-7,36433
TTC30B	-0,14256	3,788494	-0,29297	0,780384	0,832948	-7,36445
IFI44	-0,04661	6,00952	-0,29236	0,780833	0,833364	-7,36466
CDCA3	-0,33333	1,273976	-0,29204	0,781065	0,833549	-7,36477
UBOX5	-0,19499	2,978779	-0,29189	0,781172	0,8336	-7,36482
C17orf80	0,088538	5,445442	0,291601	0,78138	0,833759	-7,36492
SFXN2	0,250257	3,799251	0,291454	0,781487	0,83381	-7,36497
EIF2B4	0,091232	5,742816	0,290718	0,782021	0,834317	-7,36522
CMTM4	-0,24566	1,953445	-0,28986	0,782646	0,834858	-7,36551
PMS2CL	-0,24566	1,953445	-0,28986	0,782646	0,834858	-7,36551
ZNF587B	-0,07655	5,150725	-0,28889	0,783346	0,835541	-7,36583
APOBEC3H	-0,24214	3,048192	-0,28863	0,783532	0,835677	-7,36592
ZNF768	-0,11488	3,157177	-0,28829	0,783779	0,83582	-7,36603
N4BP1	0,037202	8,579981	0,288287	0,783784	0,83582	-7,36603
MKI67	0,207163	3,727036	0,288024	0,783975	0,83596	-7,36612
HIBCH	-0,05826	6,430191	-0,2877	0,784214	0,836152	-7,36623
RASGRP1	0,048897	9,763789	0,287598	0,784285	0,836164	-7,36626
MAN1B1	-0,10604	5,854403	-0,28713	0,784625	0,836464	-7,36642

POGK	-0,08195	6,774892	-0,28693	0,784768	0,836553	-7,36649
FGF14	0,282666	1,44363	0,286357	0,785186	0,836935	-7,36668
TCF4	-0,03991	8,816527	-0,28586	0,785549	0,837215	-7,36684
SLC35C2	-0,07673	6,53586	-0,28583	0,785567	0,837215	-7,36685
HELZ	-0,04125	8,818061	-0,2854	0,78588	0,837486	-7,36699
HSPA13	-0,04068	7,777245	-0,28451	0,786531	0,838117	-7,36729
PPP2R5D	-0,04594	6,561629	-0,28391	0,786961	0,838511	-7,36749
MIR181A2I	0,138346	1,704803	0,283475	0,787281	0,838789	-7,36763
PIKFYVE	0,03957	7,989909	0,283233	0,787456	0,838913	-7,36771
LPAL2	-0,36651	1,452374	-0,28165	0,788611	0,84008	-7,36823
ZSCAN12	-0,22569	3,938763	-0,28086	0,789184	0,840627	-7,36849
MPP5	0,057707	6,237667	0,279658	0,790058	0,841494	-7,36888
TMEM117	-0,16181	3,231308	-0,27958	0,790118	0,841495	-7,36891
DDRKG1	0,052824	5,974255	0,278541	0,790871	0,842233	-7,36924
EXOC4	0,074519	6,752368	0,278106	0,791188	0,842507	-7,36938
PLAA	-0,0528	6,262599	-0,27781	0,791401	0,842671	-7,36948
EXOC6B	0,092949	5,208983	0,276958	0,792024	0,843271	-7,36975
MTRNR2L6	-0,31096	2,577743	-0,27667	0,792234	0,843429	-7,36985
E2F7	-0,19499	0,76416	-0,27625	0,792543	0,843429	-7,36998
FLT4	-0,19499	0,76416	-0,27625	0,792543	0,843429	-7,36998
HPSE2	-0,19499	0,76416	-0,27625	0,792543	0,843429	-7,36998
IL17A	0,194988	0,76416	0,276247	0,792543	0,843429	-7,36998
OSBP2	-0,19499	0,76416	-0,27625	0,792543	0,843429	-7,36998
DDX17	0,033394	10,91016	0,276181	0,792591	0,843429	-7,37
ZNF592	-0,07782	6,001549	-0,27603	0,792702	0,843485	-7,37005
KLC1	-0,10442	6,806766	-0,27468	0,793682	0,844463	-7,37048
EIF4G1	0,04258	8,812125	0,274141	0,794078	0,844821	-7,37066
PPID	0,061232	7,41943	0,273946	0,79422	0,844908	-7,37072
VPS72	-0,08165	5,807657	-0,27341	0,794613	0,845253	-7,37089
MYBBP1A	0,071794	6,047955	0,273301	0,794691	0,845253	-7,37093
SLC30A5	0,051642	6,925895	0,273256	0,794724	0,845253	-7,37094
DNAJC25	0,083537	6,560188	0,272578	0,795218	0,845716	-7,37115
IQCG	0,044247	4,843894	0,272477	0,795291	0,84573	-7,37119
COQ7	-0,09018	4,924872	-0,27233	0,795402	0,845784	-7,37123
TCF20	0,051568	7,431385	0,271969	0,795662	0,845997	-7,37135
PAIP2	0,03418	9,163662	0,271415	0,796066	0,846363	-7,37152
SESN2	0,064553	6,428936	0,271229	0,796202	0,846444	-7,37158
ZNF319	-0,09849	5,317936	-0,27048	0,796752	0,846964	-7,37182
KCNH1	0,226024	0,886988	0,270267	0,796905	0,846982	-7,37188
SNORD38A	0,226024	0,886988	0,270267	0,796905	0,846982	-7,37188
GAB1	0,089482	4,527532	0,270208	0,796948	0,846982	-7,3719
HPS6	0,070384	6,277087	0,269395	0,797542	0,847549	-7,37216
PDE6G	0,245655	1,758458	0,269131	0,797734	0,84769	-7,37224
CHORDC1	-0,03642	7,685615	-0,26899	0,797838	0,847736	-7,37229
NDUFAF3	0,112221	5,726753	0,26762	0,798838	0,848736	-7,37271
C1orf198	-0,19499	2,097494	-0,26731	0,799068	0,848879	-7,37281
PSMC3IP	0,329501	2,490511	0,267239	0,799117	0,848879	-7,37283
NMNAT1	0,059775	4,166351	0,26719	0,799153	0,848879	-7,37285
UBE4A	-0,04237	7,233018	-0,26691	0,799357	0,84897	-7,37293
DCAF11	-0,06624	7,53045	-0,26691	0,799359	0,84897	-7,37293
SAMD8	-0,04248	5,47576	-0,26678	0,799452	0,849004	-7,37297
PRKAR2B	-0,06717	5,565971	-0,26621	0,799868	0,849383	-7,37315

PPP4R2	0,041989	8,400748	0,266045	0,79999	0,849448	-7,3732
TPM2	-0,06275	4,958359	-0,26581	0,80016	0,849565	-7,37327
ZNF616	0,057152	4,014518	0,265699	0,800243	0,849589	-7,37331
OXA1L	0,043712	7,401865	0,265459	0,800418	0,849712	-7,37338
ZBED3	-0,08308	3,525275	-0,26528	0,80055	0,84974	-7,37344
VAV3	0,050235	6,259968	0,265258	0,800566	0,84974	-7,37345
ABCC1	0,080994	6,978036	0,264829	0,800879	0,85001	-7,37358
EXOC3	-0,03595	7,029439	-0,26334	0,801967	0,8511	-7,37404
XPO6	-0,03693	6,528665	-0,26224	0,802774	0,851892	-7,37437
SIK2	0,032206	6,250602	0,261427	0,803369	0,85246	-7,37462
DYM	-0,07821	5,561462	-0,26123	0,803516	0,852552	-7,37468
UFSP2	-0,0474	6,781137	-0,26102	0,803669	0,85265	-7,37475
FAM43A	-0,05572	6,650317	-0,26077	0,803846	0,852775	-7,37482
NME1	-0,03967	5,841192	-0,26059	0,803983	0,852856	-7,37488
TSPAN5	-0,19844	5,014061	-0,26034	0,804163	0,852967	-7,37495
CAMK2G	0,045466	6,029249	0,260281	0,804209	0,852967	-7,37497
PTK6	0,245655	0,984482	0,260091	0,804348	0,85305	-7,37503
SLC25A14	-0,10157	5,210489	-0,25988	0,804504	0,853152	-7,37509
MAZ	0,062975	6,772922	0,259718	0,804621	0,853212	-7,37514
ZNF45	-0,09663	4,982892	-0,25959	0,804714	0,853247	-7,37518
TCTA	0,080157	4,897013	0,259382	0,804867	0,853345	-7,37524
FLI1	0,031478	8,462556	0,259164	0,805026	0,85345	-7,37531
PLEKHB1	-0,22289	3,97435	-0,25902	0,805135	0,853501	-7,37535
ESYT2	0,055105	7,740207	0,258306	0,805655	0,853989	-7,37557
CLPTM1	0,081177	5,601294	0,258071	0,805828	0,854108	-7,37564
ZCCHC9	-0,03634	6,912144	-0,2574	0,806318	0,854563	-7,37584
CCDC106	0,269118	1,467892	0,256897	0,806688	0,854835	-7,37599
TBC1D17	-0,17152	4,311669	-0,25689	0,806696	0,854835	-7,37599
CAMLG	0,048049	8,854663	0,256513	0,80697	0,855061	-7,3761
KIAA1109	0,041453	9,143595	0,256354	0,807087	0,855121	-7,37615
ROBO3	0,114883	2,823844	0,256036	0,807319	0,855304	-7,37625
IKBKB	-0,05784	7,528139	-0,25543	0,807765	0,855711	-7,37643
SLC17A6	0,296323	2,399791	0,25506	0,808035	0,855876	-7,37654
SLC25A16	-0,08565	5,244834	-0,25501	0,808071	0,855876	-7,37655
NSUN7	-0,33333	1,435785	-0,25495	0,808114	0,855876	-7,37657
ATXN1	-0,03939	8,814513	-0,25489	0,808162	0,855876	-7,37659
LARP1	-0,03727	8,932624	-0,25413	0,808718	0,8564	-7,37681
PTS	-0,14941	5,195352	-0,25385	0,808921	0,856465	-7,37689
MSL1	-0,03582	8,904688	-0,2538	0,80896	0,856465	-7,37691
PKIG	0,11	3,654761	0,25375	0,808996	0,856465	-7,37693
SEPHS2	-0,04759	7,951142	-0,25372	0,809022	0,856465	-7,37694
FBXL13	-0,16181	2,244856	-0,25238	0,810002	0,857239	-7,37733
RAB28	0,052446	6,682085	0,252345	0,810029	0,857239	-7,37734
CRIPT	-0,09897	5,185419	-0,25234	0,810032	0,857239	-7,37734
CASC2	-0,13835	0,597494	-0,25214	0,810178	0,857239	-7,3774
CCT6P3	-0,13835	0,597494	-0,25214	0,810178	0,857239	-7,3774
SNORA37	-0,13835	0,597494	-0,25214	0,810178	0,857239	-7,3774
ZNF837	-0,13835	0,597494	-0,25214	0,810178	0,857239	-7,3774
WDR35	-0,08936	4,008609	-0,25159	0,810586	0,857607	-7,37756
GSK3A	-0,07149	5,178574	-0,25129	0,810801	0,85777	-7,37765
RAD23A	-0,04098	8,072655	-0,25114	0,81091	0,857821	-7,37769
KIF3B	-0,04864	6,651933	-0,251	0,811014	0,857868	-7,37773

FKBP4	-0,05233	5,515073	-0,25075	0,811197	0,857997	-7,37781
NID2	0,282666	0,915309	0,250349	0,811494	0,858247	-7,37792
SSBP3	-0,05213	7,812405	-0,25024	0,811574	0,858267	-7,37796
SFI1	0,078943	5,764128	0,249833	0,811873	0,858519	-7,37808
NCAPD2	0,058453	6,611499	0,249131	0,812389	0,859001	-7,37828
MAN2C1	0,057774	4,847565	0,24812	0,813132	0,859722	-7,37857
TEF	-0,31584	2,093707	-0,24613	0,814598	0,861173	-7,37915
UPRT	-0,06157	5,500052	-0,24609	0,814626	0,861173	-7,37916
MOCS2	0,053527	6,37926	0,245983	0,814704	0,86119	-7,37919
SNRNP48	0,043274	7,622251	0,245529	0,815038	0,861432	-7,37932
STMN1	-0,06493	6,86355	-0,24551	0,815055	0,861432	-7,37932
ACTR1B	0,086726	7,278445	0,245186	0,81529	0,861566	-7,37942
UTP6	-0,03995	7,23571	-0,24517	0,815303	0,861566	-7,37942
TSPAN31	0,064141	5,383436	0,244875	0,815519	0,86173	-7,37951
AKAP11	-0,04618	8,344878	-0,24468	0,815663	0,861818	-7,37956
ISCA1	0,140924	5,516098	0,243694	0,816388	0,862497	-7,37984
PLAGL1	-0,05839	5,963769	-0,24364	0,816428	0,862497	-7,37986
TMEM14B	-0,044	7,062682	-0,24269	0,817125	0,863169	-7,38013
IMPAD1	-0,03606	7,770963	-0,24245	0,817305	0,863295	-7,3802
ALG6	-0,07158	5,344611	-0,24157	0,817952	0,863913	-7,38044
MCF2L	0,126171	2,944371	0,24132	0,818136	0,864009	-7,38051
KHSRP	0,033337	8,213571	0,241281	0,818165	0,864009	-7,38052
SNX33	-0,21845	1,883201	-0,24103	0,818346	0,864079	-7,38059
BTBD1	-0,06945	6,001652	-0,24103	0,818353	0,864079	-7,3806
FASTKD2	-0,06688	6,306533	-0,24036	0,818843	0,864494	-7,38078
ANXA7	0,033134	7,959648	0,240325	0,818869	0,864494	-7,38079
LRIF1	0,03898	7,882845	0,239943	0,81915	0,864605	-7,3809
CLASRP	-0,08083	5,894496	-0,23994	0,819153	0,864605	-7,3809
AXIN2	0,087111	5,693148	0,239933	0,819158	0,864605	-7,3809
HSP90AB2I	-0,24417	2,129543	-0,23985	0,819219	0,864606	-7,38093
RECQL	-0,04313	7,690947	-0,23962	0,819389	0,864721	-7,38099
FGFR1	-0,20026	5,185927	-0,2391	0,819774	0,865062	-7,38114
PLEKHG7	0,14432	2,781921	0,23889	0,819926	0,865158	-7,38119
PHTF2	0,034264	7,046813	0,238787	0,820003	0,865174	-7,38122
PRDX2	-0,23969	4,316081	-0,23861	0,82013	0,865244	-7,38127
RGS14	0,050756	6,76663	0,238389	0,820296	0,865355	-7,38133
ZNF24	0,030383	9,816224	0,237745	0,82077	0,865752	-7,38151
LZTS2	0,087825	5,632704	0,237648	0,820843	0,865752	-7,38154
CCDC102A	-0,18067	3,07893	-0,23763	0,820856	0,865752	-7,38155
MVP	0,042871	6,925849	0,237501	0,820951	0,865787	-7,38158
IFITM1	0,255178	1,763219	0,236726	0,821522	0,866325	-7,3818
RORC	0,226024	1,220321	0,235898	0,822133	0,866904	-7,38202
ADAMTS19	0,194988	1,292481	0,235513	0,822417	0,867074	-7,38213
PLEKHG5	0,194988	1,292481	0,235513	0,822417	0,867074	-7,38213
RSRC1	0,037405	8,489107	0,234598	0,823092	0,867661	-7,38238
STUB1	-0,11597	6,194893	-0,23458	0,823107	0,867661	-7,38239
CTAGE1	0,194988	1,204803	0,234509	0,823157	0,867661	-7,38241
CTBS	0,044999	6,418697	0,234327	0,823292	0,867738	-7,38246
RNF152	0,30987	1,619041	0,234017	0,823521	0,867914	-7,38254
NTN4	0,130772	2,455361	0,233814	0,82367	0,868007	-7,3826
MRPL51	-0,07602	7,073786	-0,23371	0,823748	0,868024	-7,38262
THAP1	0,035265	6,435926	0,232662	0,824521	0,868774	-7,38291

DNAJC5	0,0592	7,504901	0,232173	0,824882	0,869089	-7,38304
NBAS	0,033868	7,483163	0,231985	0,825021	0,869171	-7,38309
HMG2P4	-0,25163	2,566457	-0,23137	0,825477	0,869547	-7,38326
TRAFD1	0,046568	6,959171	0,231185	0,825612	0,869547	-7,38331
NAP1L3	-0,08131	3,994867	-0,23117	0,825621	0,869547	-7,38331
GLRX5	-0,03322	7,392156	-0,23117	0,825624	0,869547	-7,38331
SUMF1	0,034253	7,071204	0,229898	0,826563	0,870471	-7,38366
ZNF439	-0,11053	4,279184	-0,22875	0,827409	0,871298	-7,38396
SH2D2A	-0,10253	6,640617	-0,22866	0,82748	0,871307	-7,38399
PGAP2	-0,07607	5,36742	-0,22804	0,827932	0,871719	-7,38415
TULP4	-0,03502	7,748291	-0,22779	0,828122	0,871848	-7,38422
SF3A1	0,04162	9,158522	0,227712	0,828179	0,871848	-7,38424
MDM4	0,029238	9,167129	0,227304	0,82848	0,872101	-7,38435
NAT9	0,078155	3,823827	0,22717	0,828579	0,87214	-7,38438
PIN1	0,05855	5,643183	0,226999	0,828705	0,872208	-7,38443
OR6Y1	-0,24566	1,179469	-0,22619	0,8293	0,872704	-7,38464
PPARG	-0,24566	1,179469	-0,22619	0,8293	0,872704	-7,38464
GTF3C2	0,059003	6,277639	0,22597	0,829467	0,872814	-7,3847
SORL1	0,032568	10,03415	0,225449	0,829852	0,873154	-7,38484
SMARCC2	0,03366	8,724579	0,224649	0,830444	0,873712	-7,38505
DEAF1	0,074489	5,579224	0,224175	0,830795	0,874016	-7,38517
OVGP1	0,269118	1,134559	0,224055	0,830883	0,874044	-7,38521
GTF2I	-0,16678	5,084301	-0,22265	0,831924	0,875074	-7,38557
TTC4	-0,20853	2,147362	-0,22243	0,832084	0,875178	-7,38563
MT2A	-0,06282	8,19729	-0,22211	0,832325	0,875354	-7,38571
BAZ2A	0,033688	9,564641	0,222039	0,832376	0,875354	-7,38573
ZNF607	-0,29484	2,242555	-0,22151	0,832764	0,875697	-7,38587
PCP2	-0,19499	1,097494	-0,2212	0,832995	0,875875	-7,38595
EZH2	-0,0394	6,785854	-0,22063	0,833418	0,876255	-7,3861
PSMC4	0,052899	6,25276	0,220449	0,833553	0,876331	-7,38614
GGA1	-0,04229	7,133558	-0,2194	0,834333	0,877086	-7,38641
ENKUR	0,068817	3,129543	0,219238	0,83445	0,877141	-7,38645
TIAM1	0,035356	7,693742	0,219159	0,834509	0,877141	-7,38647
ZNF669	0,120857	2,460319	0,218758	0,834806	0,877388	-7,38658
NEK2	-0,33333	1,889975	-0,21699	0,836119	0,878702	-7,38703
ABCG2	-0,27049	2,683197	-0,21623	0,836678	0,879194	-7,38722
TMEM106E	0,03376	8,010097	0,216112	0,836768	0,879194	-7,38725
TNFRSF10B	0,059828	6,238331	0,216104	0,836773	0,879194	-7,38725
NUDT9	-0,04623	5,684765	-0,21498	0,837606	0,880003	-7,38753
MCM6	-0,06886	6,389836	-0,21484	0,837712	0,880049	-7,38757
LIMD2	0,05317	7,432248	0,214687	0,837825	0,880102	-7,38761
CACNA1D	-0,13835	0,930827	-0,21435	0,838077	0,880105	-7,38769
NOTCH3	0,138346	0,930827	0,214347	0,838077	0,880105	-7,38769
OXTR	0,138346	0,930827	0,214347	0,838077	0,880105	-7,38769
STYK1	-0,13835	0,930827	-0,21435	0,838077	0,880105	-7,38769
PAICS	0,047208	6,829043	0,2122	0,83967	0,881713	-7,38823
PRPSAP2	0,043286	6,44939	0,211623	0,840098	0,882097	-7,38837
GABRA4	0,30636	3,136942	0,211316	0,840327	0,882271	-7,38845
ZFYVE27	0,063011	6,302296	0,211039	0,840532	0,882421	-7,38852
RANBP17	0,161809	2,521547	0,210703	0,840782	0,882618	-7,3886
GLG1	-0,0335	9,304239	-0,2104	0,84101	0,882792	-7,38867
NFYC	-0,04196	6,102977	-0,20912	0,841958	0,883721	-7,38899

KXD1	0,03146	7,2021	0,20826	0,842596	0,884325	-7,3892
HECTD1	-0,03234	8,803644	-0,20801	0,842782	0,884409	-7,38926
C1D	-0,03558	6,166273	-0,20785	0,842898	0,884409	-7,3893
OGG1	0,044817	5,513311	0,207829	0,842916	0,884409	-7,3893
SLC35D1	0,039174	6,132499	0,207816	0,842926	0,884409	-7,38931
DIXDC1	0,061082	3,721922	0,207075	0,843477	0,884921	-7,38949
PGLS	0,056593	5,042624	0,206366	0,844004	0,885409	-7,38966
FBXL4	0,037789	6,560563	0,206136	0,844174	0,88547	-7,38971
ADD3	0,030561	10,23247	0,206118	0,844188	0,88547	-7,38972
GCSH	-0,19499	1,538136	-0,20581	0,844415	0,885643	-7,38979
C16orf58	0,173984	3,848793	0,20559	0,844581	0,885751	-7,38984
TAF1A	-0,14218	3,393017	-0,20417	0,845634	0,886413	-7,39018
ZW10	0,056748	6,356657	0,204153	0,845649	0,886413	-7,39019
MRPL21	0,058722	6,154702	0,204053	0,845724	0,886413	-7,39021
FAM111B	-0,12714	5,138641	-0,20404	0,845734	0,886413	-7,39022
TBC1D22B	-0,07577	4,609802	-0,20403	0,845738	0,886413	-7,39022
ZNF398	-0,03991	5,511901	-0,20401	0,845759	0,886413	-7,39022
ARL6IP1	0,028232	8,954263	0,203999	0,845764	0,886413	-7,39023
CYLD	0,025081	10,27357	0,203993	0,845768	0,886413	-7,39023
ING5	-0,04717	7,187764	-0,20398	0,845777	0,886413	-7,39023
KDM3B	0,028959	7,547857	0,203247	0,846323	0,886903	-7,39041
LANCL1	0,038033	6,735933	0,203072	0,846453	0,886903	-7,39045
MCOLN2	0,10155	5,665285	0,20304	0,846477	0,886903	-7,39045
EXOSC8	0,042865	6,185613	0,203016	0,846495	0,886903	-7,39046
RBL1	-0,11616	5,62806	-0,20264	0,846777	0,887133	-7,39055
PPP2R2A	-0,03264	8,486813	-0,20222	0,847088	0,88738	-7,39065
ADAM7	0,194988	1,292481	0,202151	0,847139	0,88738	-7,39067
STS	-0,09131	3,696082	-0,20025	0,848554	0,888797	-7,39111
B4GALT6	-0,1348	3,096553	-0,20012	0,848652	0,888833	-7,39114
LRP12	0,095273	5,139678	0,199859	0,848844	0,888969	-7,3912
SDF2	0,034823	6,944601	0,199142	0,849379	0,889425	-7,39137
LOXL1	-0,19499	2,204803	-0,1991	0,849406	0,889425	-7,39138
TMEM156	0,124799	4,023789	0,198691	0,849714	0,889682	-7,39148
PRDX6	-0,02642	7,465888	-0,19797	0,850249	0,890127	-7,39164
RIOK2	-0,04304	6,315527	-0,19791	0,850299	0,890127	-7,39166
KPNB1	0,02537	9,970717	0,197866	0,850328	0,890127	-7,39167
MCM3AP	-0,03385	7,144378	-0,19744	0,850647	0,890339	-7,39177
SEC14L1	-0,0473	7,408393	-0,19733	0,850727	0,890339	-7,39179
ARL3	-0,0321	6,092372	-0,19731	0,850746	0,890339	-7,3918
CXorf40A	0,138346	1,125815	0,197181	0,850839	0,890339	-7,39183
SUGP1	0,098196	4,767371	0,197173	0,850845	0,890339	-7,39183
DRAM2	-0,03595	7,205432	-0,19682	0,851111	0,890551	-7,39191
RNF43	0,212477	1,496213	0,196508	0,85134	0,890725	-7,39198
FBRSL1	-0,09617	6,046932	-0,19637	0,851446	0,89077	-7,39201
ZNF226	-0,09002	6,308113	-0,19607	0,851664	0,890783	-7,39208
C11orf68	-0,03089	5,053902	-0,19605	0,85168	0,890783	-7,39209
COL11A1	-0,2592	1,39872	-0,19597	0,851741	0,890783	-7,39211
COL14A1	0,194988	0,959148	0,195771	0,85189	0,890783	-7,39215
KCNK12	0,194988	0,959148	0,195771	0,85189	0,890783	-7,39215
TMC1	0,194988	0,959148	0,195771	0,85189	0,890783	-7,39215
UHMK1	0,024559	9,732303	0,195758	0,8519	0,890783	-7,39215
DPM1	-0,0266	7,932625	-0,19549	0,852097	0,890902	-7,39222

TAF12	-0,02492	6,586497	-0,19544	0,85214	0,890902	-7,39223
BTBD7	0,027829	8,516102	0,19521	0,852308	0,891012	-7,39228
HSPB11	-0,0263	6,997963	-0,19334	0,853698	0,892399	-7,3927
TTPAL	-0,11488	5,160174	-0,19326	0,853764	0,892402	-7,39272
USP12	0,038635	6,864591	0,192694	0,854184	0,892775	-7,39285
MX1	0,049056	6,844081	0,191572	0,85502	0,893583	-7,3931
MTPN	0,023899	10,2974	0,191104	0,855369	0,893882	-7,39321
HAT1	-0,03917	6,728138	-0,19102	0,855433	0,893882	-7,39323
TNRC18	0,032839	6,731603	0,19024	0,856014	0,894423	-7,3934
PRMT3	0,058389	5,089164	0,190095	0,856122	0,89447	-7,39343
B4GALT3	-0,02626	7,045728	-0,18969	0,856428	0,894723	-7,39353
YBX1	-0,03082	9,02623	-0,18907	0,856884	0,895134	-7,39366
IARS2	0,028821	8,27186	0,188783	0,857102	0,895181	-7,39373
CBWD2	0,063809	5,65773	0,188578	0,857254	0,895181	-7,39377
CDC23	-0,06182	6,386392	-0,18827	0,857484	0,895181	-7,39384
TMEM132E	0,194988	1,292481	0,188181	0,857551	0,895181	-7,39386
DECR1	-0,02831	7,195725	-0,18814	0,857582	0,895181	-7,39387
STAMBP	-0,03164	6,929871	-0,18794	0,857731	0,895181	-7,39391
FMR1	-0,03544	8,397907	-0,18782	0,857817	0,895181	-7,39394
MAMLD1	0,194988	1,538136	0,187795	0,857839	0,895181	-7,39394
SPATA7	0,171524	2,795523	0,187772	0,857856	0,895181	-7,39395
AGPAT4	-0,08475	5,335823	-0,18729	0,858218	0,895181	-7,39405
C7orf25	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
C9orf43	-0,13835	0,597494	-0,18723	0,858259	0,895181	-7,39407
CC2D2A	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
HAS2-AS1	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
HUNK	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
ISL1	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
LAMB1	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
RAB3IL1	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
RDH16	-0,13835	0,597494	-0,18723	0,858259	0,895181	-7,39407
WDR31	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
ZNF490	0,138346	0,597494	0,187232	0,858259	0,895181	-7,39407
CHD4	-0,0371	7,649738	-0,18712	0,858344	0,895203	-7,39409
MAPKAP1	0,04205	7,053855	0,187031	0,858409	0,895205	-7,39411
DNAJB9	0,045329	7,294924	0,18617	0,859052	0,895784	-7,3943
GNPDA2	0,03499	5,624387	0,186118	0,859091	0,895784	-7,39431
ABHD4	-0,06113	4,395586	-0,18593	0,859231	0,895864	-7,39435
MOB4	0,033413	8,070017	0,185221	0,859761	0,896351	-7,39451
PLEKHF2	-0,04896	7,045686	-0,18508	0,859865	0,896393	-7,39454
PNRC2	-0,02979	7,809435	-0,18487	0,860022	0,89649	-7,39458
IPO5	0,039343	7,612885	0,184524	0,860282	0,896695	-7,39466
MMP28	-0,21248	1,16288	-0,1842	0,860522	0,896813	-7,39473
SERPINF2	-0,21248	1,16288	-0,1842	0,860522	0,896813	-7,39473
TRPS1	0,025983	7,065215	0,183973	0,860693	0,896926	-7,39478
LRRC8A	-0,02314	6,397035	-0,18106	0,86287	0,899107	-7,3954
DISC1	0,138346	3,868754	0,181003	0,862913	0,899107	-7,39541
NDUFA8	-0,02467	6,307712	-0,18023	0,863493	0,899644	-7,39558
BACE2	0,212477	1,16288	0,179392	0,864118	0,900229	-7,39575
IFT172	-0,16395	3,189285	-0,17907	0,86436	0,900415	-7,39582
WASF1	-0,14552	3,091189	-0,17885	0,864522	0,900425	-7,39587
ZNF107	0,041228	5,847513	0,178833	0,864536	0,900425	-7,39587

TOP3A	0,065072	5,20209	0,178776	0,864579	0,900425	-7,39588
USP40	0,051036	6,137885	0,178597	0,864713	0,900425	-7,39592
UBN2	-0,02241	7,891067	-0,17855	0,864746	0,900425	-7,39593
PDE9A	0,161809	1,854881	0,178545	0,864752	0,900425	-7,39593
POLDIP3	0,028359	6,933278	0,178174	0,865029	0,900647	-7,39601
SNCA	0,061082	5,065844	0,177543	0,865501	0,901072	-7,39614
SLC15A2	-0,05731	3,660263	-0,17714	0,865805	0,901322	-7,39622
OGFR	-0,04393	6,866773	-0,17659	0,866214	0,901682	-7,39634
CLCN4	0,108735	4,950451	0,176473	0,866302	0,901706	-7,39636
GSTM3	-0,12617	3,213489	-0,17613	0,866558	0,901907	-7,39643
FDFT1	-0,02869	7,633292	-0,1755	0,867033	0,902297	-7,39656
PTPN22	-0,0263	7,419566	-0,17546	0,86706	0,902297	-7,39657
IFT81	0,079822	3,153194	0,175172	0,867276	0,902454	-7,39663
TTC30A	-0,20639	2,425124	-0,17465	0,867669	0,902798	-7,39674
MYCBP	0,038958	6,227134	0,173923	0,86821	0,903294	-7,39688
DNAJC7	0,023657	8,044994	0,173284	0,868689	0,903726	-7,39701
ISYNA1	0,107309	1,248642	0,172486	0,869287	0,904205	-7,39718
ABCB6	-0,17152	1,021547	-0,17239	0,869359	0,904205	-7,3972
ARG2	-0,17152	1,021547	-0,17239	0,869359	0,904205	-7,3972
SMAD5	-0,02499	7,844336	-0,17233	0,869405	0,904205	-7,39721
HTATIP2	-0,02456	7,444159	-0,17194	0,869698	0,904442	-7,39729
TSPAN3	-0,03287	7,660558	-0,17184	0,869769	0,90445	-7,39731
ZEB2-AS1	0,087018	3,792423	0,171537	0,869997	0,904621	-7,39737
RAF1	-0,02961	7,53053	-0,17093	0,870456	0,905006	-7,39749
UBE2Q1	-0,02449	8,486195	-0,17087	0,870496	0,905006	-7,3975
RUFY3	0,035335	7,188106	0,170518	0,870761	0,905215	-7,39757
GADD45A	-0,06041	5,723194	-0,16993	0,871203	0,905608	-7,39769
TADA1	-0,04243	6,755198	-0,16966	0,871402	0,905748	-7,39774
SEN8	-0,10731	2,355952	-0,16925	0,871711	0,906003	-7,39783
TRAPPC8	0,031837	8,308558	0,169054	0,871859	0,906088	-7,39786
NIPA1	-0,0356	6,412377	-0,16897	0,871921	0,906088	-7,39788
HSPH1	-0,0351	9,167193	-0,16837	0,872368	0,906486	-7,398
RPTOR	0,05281	3,96219	0,167845	0,872765	0,906831	-7,3981
ERMP1	0,028417	5,547885	0,167714	0,872863	0,906867	-7,39813
MRPS31	0,026478	7,201262	0,167552	0,872985	0,906926	-7,39816
KLHL22	-0,10556	4,195218	-0,16639	0,873853	0,907762	-7,39839
MXD3	0,0545	3,29851	0,166017	0,874135	0,907862	-7,39846
BMP6	0,194988	0,959148	0,165972	0,874169	0,907862	-7,39847
HLA-G	0,194988	0,959148	0,165972	0,874169	0,907862	-7,39847
KLHL32	0,124799	1,647362	0,165922	0,874207	0,907862	-7,39848
FOPNL	-0,02367	7,73858	-0,16571	0,874369	0,907964	-7,39852
ZNF541	-0,16181	2,295523	-0,16552	0,87451	0,908044	-7,39856
ZNF225	-0,08419	4,420129	-0,16454	0,87524	0,908735	-7,39875
SPAG7	0,029129	8,114091	0,163582	0,875962	0,909418	-7,39893
ARMC9	0,113793	3,42684	0,16266	0,876653	0,910069	-7,39911
EIF4H	0,032714	5,898246	0,162257	0,876956	0,910316	-7,39919
DTX1	0,138346	1,704803	0,162142	0,877043	0,910339	-7,39921
SYT11	0,028154	6,329279	0,161266	0,8777	0,910954	-7,39937
FZR1	-0,03712	5,587284	-0,16107	0,87785	0,910978	-7,39941
GBP1P1	-0,07616	4,882037	-0,16106	0,877851	0,910978	-7,39941
POM121	-0,09902	4,113607	-0,16093	0,877954	0,911018	-7,39944
UNC45B	-0,13835	1,37147	-0,1601	0,878575	0,911595	-7,39959

EIF6	0,052178	6,021918	0,159832	0,878777	0,911737	-7,39964
COPS8	0,045733	7,191592	0,159164	0,879278	0,912191	-7,39977
DUSP11	0,051687	6,5405	0,158861	0,879505	0,912359	-7,39983
BTN3A1	-0,02823	8,512827	-0,15855	0,879738	0,912534	-7,39988
HDAC2	0,025013	8,199285	0,157823	0,880285	0,913034	-7,40002
FAS	0,037045	6,348899	0,157548	0,880492	0,913182	-7,40007
SUB1	-0,02097	9,563135	-0,15737	0,880626	0,913254	-7,4001
CLN3	0,093369	2,756446	0,157024	0,880886	0,91342	-7,40017
NEDD4	0,070501	3,948511	0,156961	0,880933	0,91342	-7,40018
AKIRIN2	0,025542	6,852276	0,156898	0,88098	0,91342	-7,40019
SRSF3	-0,02233	9,706225	-0,15666	0,881157	0,913536	-7,40023
ETV3	-0,02781	6,520313	-0,15613	0,88156	0,913888	-7,40033
XPO7	0,031696	7,513928	0,155793	0,88181	0,91401	-7,40039
TMTC4	-0,02501	5,375433	-0,15561	0,881945	0,91401	-7,40043
BCL3	0,02584	7,812837	0,155546	0,881996	0,91401	-7,40044
OSBPL9	0,026056	7,231738	0,1555	0,882031	0,91401	-7,40045
SCD5	-0,12129	3,837618	-0,15549	0,882035	0,91401	-7,40045
SYNE2	0,025875	10,75671	0,155452	0,882067	0,91401	-7,40045
TIGD2	-0,05855	4,072367	-0,15493	0,882461	0,914352	-7,40055
COL4A2	0,161809	0,854881	0,154426	0,882838	0,914608	-7,40064
RGS13	0,161809	0,854881	0,154426	0,882838	0,914608	-7,40064
PCOLCE	0,138346	0,930827	0,154216	0,882995	0,91468	-7,40068
NOP2	-0,13077	3,535183	-0,15416	0,883037	0,91468	-7,40069
ZNF595	0,102034	2,978137	0,153763	0,883336	0,914923	-7,40076
GIPC1	0,070299	5,259733	0,152891	0,883991	0,915535	-7,40092
RNGTT	0,031573	6,218972	0,152737	0,884107	0,915588	-7,40095
ARHGAP32	0,128221	3,668704	0,152577	0,884227	0,915645	-7,40097
SUFU	-0,0265	6,065646	-0,15208	0,884598	0,915962	-7,40106
EPHB1	-0,19499	1,538136	-0,15195	0,884701	0,916002	-7,40109
HEXA	0,025108	7,352718	0,151621	0,884946	0,916188	-7,40115
ZDHHC8	-0,07188	5,291589	-0,15125	0,885224	0,916409	-7,40121
ZNF787	-0,05577	5,445684	-0,15072	0,88562	0,916752	-7,4013
POLRMT	0,103447	3,373651	0,150602	0,885713	0,91678	-7,40133
MAML3	0,063858	4,539987	0,150417	0,885852	0,916857	-7,40136
SIGLEC7	-0,06301	4,810153	-0,15025	0,885978	0,91692	-7,40139
CTBP1	0,027193	7,498799	0,150099	0,886091	0,91697	-7,40142
POLR2F	-0,0489	5,846062	-0,14943	0,886598	0,917428	-7,40153
MIF4GD	-0,04058	6,222848	-0,14913	0,886818	0,917588	-7,40159
TIA1	-0,02193	8,479585	-0,14901	0,886913	0,917592	-7,40161
FAXC	-0,13835	1,125815	-0,14896	0,886951	0,917592	-7,40162
TES	-0,02343	8,941732	-0,14793	0,887723	0,918323	-7,40179
GOLGA8B	-0,02749	7,971621	-0,14736	0,888155	0,91845	-7,40189
CHIC1	0,079822	5,298996	0,146567	0,888749	0,91845	-7,40203
CILP	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
FAM124A	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
FXD2	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
GLIS2	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
GPR135	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
HSF2BP	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
KCNJ16	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
LIN37	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
LRFN2	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203

MYLK-AS1	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
SPEG	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
STX1A	0,107309	0,720321	0,146558	0,888756	0,91845	-7,40203
CARM1	-0,03153	6,351287	-0,14634	0,888921	0,91845	-7,40207
CDC73	-0,02156	8,13437	-0,14633	0,888926	0,91845	-7,40207
ZBTB10	-0,02148	7,169796	-0,1463	0,888951	0,91845	-7,40208
DOCK8	-0,02101	8,590071	-0,14616	0,889056	0,918492	-7,4021
PLEKHG2	-0,0559	4,615135	-0,14545	0,889589	0,918815	-7,40222
FBXW4P1	0,138346	1,930827	0,145312	0,889693	0,918815	-7,40225
GET4	0,138346	0,930827	0,145312	0,889693	0,918815	-7,40225
HSF5	0,138346	0,930827	0,145312	0,889693	0,918815	-7,40225
ITIH4	0,138346	0,930827	0,145312	0,889693	0,918815	-7,40225
ALG10B	-0,04583	5,567859	-0,1452	0,889777	0,918834	-7,40226
TAMM41	-0,0913	5,688043	-0,14483	0,890054	0,919053	-7,40233
MVD	-0,08925	3,96514	-0,1434	0,891135	0,920044	-7,40257
FAM177A1	-0,02609	7,387675	-0,14338	0,891144	0,920044	-7,40257
GAPVD1	-0,02963	7,949022	-0,14266	0,891693	0,920544	-7,4027
NFKBID	0,074131	2,672696	0,14251	0,891804	0,92059	-7,40272
RAB1B	-0,03712	5,689319	-0,14127	0,892735	0,921478	-7,40293
ANKZF1	-0,03383	7,670607	-0,14119	0,892794	0,921478	-7,40294
RBM18	0,021365	6,908772	0,141107	0,89286	0,921479	-7,40295
ITGAL	0,024669	7,398737	0,140808	0,893085	0,921644	-7,403
UGGT1	0,022626	7,748397	0,140681	0,893181	0,921676	-7,40302
SIGIRR	-0,02819	5,930751	-0,14041	0,893383	0,921817	-7,40307
MARK3	-0,02216	8,107765	-0,14017	0,893565	0,921937	-7,40311
NETO1	-0,10731	1,053655	-0,13953	0,894048	0,92227	-7,40321
ZNF311	-0,10731	1,053655	-0,13953	0,894048	0,92227	-7,40321
SNX16	0,030919	5,341219	0,139483	0,894083	0,92227	-7,40322
SASH3	0,036222	7,088365	0,138731	0,894651	0,922788	-7,40334
HSPD1	0,023996	7,932034	0,138471	0,894846	0,922922	-7,40339
SP2	-0,02376	6,341448	-0,13737	0,895674	0,923709	-7,40356
ZNF658	0,178684	2,058306	0,137278	0,895745	0,923715	-7,40358
TRAF3IP1	0,027074	6,553314	0,137117	0,895867	0,923773	-7,40361
CKAP2L	0,148262	2,130772	0,136853	0,896066	0,923911	-7,40365
ANO5	-0,05664	1,802297	-0,13538	0,897176	0,924988	-7,40388
TGFBRAP1	-0,0478	5,912825	-0,13483	0,897588	0,925345	-7,40397
TERF1	0,033277	6,82703	0,134012	0,898208	0,925917	-7,4041
C11orf49	0,107309	3,472784	0,133178	0,898837	0,926498	-7,40423
TRIM65	-0,06756	5,477816	-0,13264	0,899243	0,926848	-7,40432
FAM126B	-0,01789	7,493944	-0,13215	0,89961	0,92716	-7,40439
SASS6	-0,04411	5,61018	-0,13204	0,899697	0,927181	-7,40441
TOB2	-0,01811	7,5638	-0,13112	0,900393	0,927831	-7,40455
PGM1	-0,03701	5,113206	-0,13061	0,900776	0,928158	-7,40463
CLSTN1	-0,03068	7,955608	-0,12941	0,901684	0,929025	-7,40481
POLR2H	-0,03084	6,262013	-0,12752	0,903107	0,930338	-7,4051
PRDX5	0,023544	6,109424	0,127492	0,903128	0,930338	-7,4051
YIPF4	-0,01574	8,399708	-0,12746	0,903155	0,930338	-7,40511
HPRT1	-0,02753	6,521455	-0,12723	0,903329	0,930449	-7,40514
BCL9L	0,026156	8,84923	0,127101	0,903424	0,930479	-7,40516
ZC3H10	0,027487	5,180774	0,126982	0,903514	0,930504	-7,40518
SLC9B2	0,047757	4,6064	0,126223	0,904086	0,931026	-7,40529
EGLN1	-0,03048	7,277226	-0,12567	0,904501	0,931385	-7,40537

SPN	-0,02964	9,21091	-0,12478	0,90518	0,932016	-7,40551
SMG1	-0,02051	8,196887	-0,12451	0,905382	0,932122	-7,40555
POMC	-0,11234	3,0746	-0,12446	0,905415	0,932122	-7,40555
IL5RA	-0,13835	1,125815	-0,1237	0,905992	0,932648	-7,40566
NKAPP1	-0,05366	3,85745	-0,123	0,906521	0,933075	-7,40576
USP11	-0,04834	6,10117	-0,12298	0,906538	0,933075	-7,40577
HIGD2A	0,021485	6,801562	0,122499	0,906899	0,933378	-7,40584
STX5	-0,02537	4,724053	-0,12235	0,907008	0,933416	-7,40586
CENPE	-0,08013	5,039949	-0,12223	0,9071	0,933416	-7,40588
TBC1D30	0,050668	3,12507	0,122188	0,907134	0,933416	-7,40588
TRIM16L	-0,13726	2,664596	-0,12202	0,907265	0,933483	-7,40591
PKN3	-0,10731	0,720321	-0,12142	0,907712	0,933739	-7,40599
DCDC2	-0,10731	0,720321	-0,12142	0,907712	0,933739	-7,40599
PCDHA4	0,107309	0,720321	0,121423	0,907712	0,933739	-7,40599
GNB5	0,020002	6,276057	0,121014	0,908021	0,933989	-7,40605
CYB561	0,052762	6,069475	0,120794	0,908187	0,93405	-7,40608
DAD1	-0,02217	6,844673	-0,12076	0,908213	0,93405	-7,40609
SETMAR	-0,13077	1,732053	-0,12027	0,908584	0,934365	-7,40616
TTC3P1	0,017595	7,601291	0,118811	0,909686	0,9354	-7,40636
C14orf28	0,037516	4,969536	0,118762	0,909724	0,9354	-7,40637
CANT1	0,027156	6,247967	0,117981	0,910313	0,935938	-7,40648
KIAA1586	0,033115	5,665846	0,11732	0,910814	0,936385	-7,40657
MZB1	0,123078	2,697169	0,116599	0,911358	0,936876	-7,40667
FMNL1	-0,02947	7,770707	-0,11643	0,911484	0,936937	-7,40669
ACADSB	-0,02387	7,220446	-0,11598	0,911825	0,93722	-7,40675
CACNA1I	0,042992	4,247622	0,11569	0,912046	0,937374	-7,40679
MGAT2	0,029629	6,785705	0,11554	0,912159	0,937374	-7,40681
ATP2A3	0,033476	5,732102	0,115521	0,912174	0,937374	-7,40681
CHTF18	-0,08768	2,615254	-0,11541	0,912256	0,93739	-7,40683
TGIF2	0,016942	7,50687	0,114973	0,912588	0,937663	-7,40689
PNOC	0,045835	3,78932	0,114414	0,913011	0,93803	-7,40696
NLRP1	-0,03068	7,833509	-0,11401	0,91332	0,938279	-7,40702
GLT8D1	0,029358	5,812588	0,113672	0,913572	0,93847	-7,40706
SWAP70	0,018667	8,011692	0,113439	0,913749	0,938583	-7,40709
CBFA2T3	-0,0239	5,181547	-0,11305	0,914047	0,938821	-7,40715
PPP1R12C	0,017966	7,578557	0,112746	0,914273	0,938985	-7,40719
CALCRL	-0,08768	1,484482	-0,11254	0,914431	0,939014	-7,40721
COL6A1	-0,08768	0,817815	-0,11209	0,914766	0,939014	-7,40727
EFHD1	-0,08768	0,817815	-0,11209	0,914766	0,939014	-7,40727
GLB1L3	-0,08768	0,817815	-0,11209	0,914766	0,939014	-7,40727
GREB1	-0,08768	0,817815	-0,11209	0,914766	0,939014	-7,40727
OR52K1	-0,08768	0,817815	-0,11209	0,914766	0,939014	-7,40727
PDE6A	0,087678	0,817815	0,112094	0,914766	0,939014	-7,40727
MRPL34	0,024852	6,755722	0,111309	0,91536	0,939555	-7,40738
SCARNA22	-0,07502	3,459773	-0,11064	0,915865	0,940005	-7,40746
C15orf61	-0,03232	6,270772	-0,10998	0,916364	0,940449	-7,40755
CLLU1OS	0,138346	1,26416	0,109597	0,916655	0,940617	-7,4076
USP19	-0,02483	6,921927	-0,10959	0,916662	0,940617	-7,4076
CETN2	0,023837	5,486903	0,109503	0,916727	0,940617	-7,40761
CHMP1B	0,018047	8,706797	0,109286	0,916891	0,940717	-7,40764
ARNT2	0,107309	1,386988	0,108766	0,917285	0,941052	-7,40771
ACAD8	0,047384	6,048601	0,108345	0,917604	0,941311	-7,40776

GAB3	-0,01852	5,988859	-0,10766	0,918121	0,941774	-7,40785
MAVS	-0,01853	7,31738	-0,10719	0,918476	0,942061	-7,40791
CCDC84	0,026482	7,537911	0,107116	0,918534	0,942061	-7,40792
TARS2	0,088159	4,893847	0,106809	0,918766	0,94223	-7,40795
TCEAL3	0,036802	5,920593	0,106105	0,919299	0,942708	-7,40804
RAPGEF2	-0,03095	7,185677	-0,1056	0,919685	0,943035	-7,40811
UGGT2	-0,01561	5,199239	-0,1052	0,919986	0,943276	-7,40815
PAX3	0,126171	1,170395	0,10426	0,920697	0,94388	-7,40827
PARK7	-0,01358	8,526201	-0,10424	0,920709	0,94388	-7,40827
THOP1	0,04097	4,519894	0,104109	0,920811	0,943882	-7,40829
CDC40	0,015394	8,241146	0,104004	0,92089	0,943882	-7,4083
TIGD7	-0,04845	4,785928	-0,10398	0,920911	0,943882	-7,4083
PKHD1L1	-0,10731	1,053655	-0,1032	0,921503	0,944386	-7,4084
OASL	0,083469	3,794197	0,103151	0,921537	0,944386	-7,40841
ST3GAL4	-0,09228	2,27962	-0,10306	0,921606	0,944389	-7,40842
MTDH	0,012637	10,69557	0,102843	0,92177	0,944463	-7,40844
TUBE1	0,043692	5,110177	0,102788	0,921812	0,944463	-7,40845
NCL	-0,01375	11,0423	-0,10177	0,922584	0,94518	-7,40857
TCFL5	-0,02428	5,024198	-0,10169	0,922645	0,94518	-7,40858
CDC37	-0,01633	8,252741	-0,10158	0,922728	0,945196	-7,4086
ACOT8	0,048507	4,684002	0,101417	0,92285	0,945253	-7,40861
FAM13B	0,015732	7,756597	0,100251	0,923733	0,946073	-7,40875
TIMM23	0,030704	5,758492	0,100184	0,923784	0,946073	-7,40876
ATF6B	-0,03606	5,243939	-0,1	0,923922	0,946081	-7,40878
HSP90AA4I	-0,0894	2,998395	-0,1	0,923926	0,946081	-7,40878
ANKRD18A	0,079387	3,2656	0,099328	0,924433	0,946506	-7,40886
OIP5-AS1	0,015675	9,163195	0,099189	0,924539	0,946506	-7,40888
05-mar	0,02291	6,902892	0,099184	0,924542	0,946506	-7,40888
CCT7	0,016028	7,466006	0,098321	0,925196	0,947062	-7,40898
BCL2L2	-0,0594	4,372334	-0,09829	0,925219	0,947062	-7,40898
ZNF469	0,074131	1,565386	0,096695	0,926429	0,948167	-7,40917
SMARCAD1	-0,01746	7,53955	-0,09669	0,926434	0,948167	-7,40917
ZMYM6	0,028171	6,648034	0,096577	0,926518	0,948185	-7,40918
VEZF1	-0,01788	8,189231	-0,096	0,926953	0,948561	-7,40924
AHCYL2	-0,04583	4,294178	-0,09577	0,927129	0,948673	-7,40927
LRSAM1	0,033179	2,921338	0,095603	0,927256	0,948735	-7,40929
U2AF1	-0,05664	3,071415	-0,0938	0,928622	0,950063	-7,40949
CDK5RAP3	0,025817	6,525395	0,092703	0,929455	0,950847	-7,40961
NEK8	0,084586	3,406545	0,092003	0,929987	0,951321	-7,40969
SLC30A4	0,045835	4,028056	0,091566	0,930318	0,951536	-7,40973
TMEM39A	0,014143	6,575406	0,091549	0,930331	0,951536	-7,40974
MET	0,08916	1,962876	0,091353	0,93048	0,951619	-7,40976
USP34	0,012857	9,155526	0,091259	0,930551	0,951623	-7,40977
MSC	0,040752	2,420267	0,091094	0,930676	0,951683	-7,40978
LRTOMT	-0,08768	1,484482	-0,09088	0,930838	0,951779	-7,40981
SPOP	0,013857	8,906531	0,090746	0,93094	0,951815	-7,40982
ZBTB5	-0,01698	6,098703	-0,09038	0,931219	0,952031	-7,40986
COASY	0,034863	5,143168	0,089762	0,931686	0,95244	-7,40993
BSDC1	0,019696	7,113851	0,089563	0,931838	0,952526	-7,40995
RUFY2	-0,03311	5,997302	-0,08915	0,932152	0,952768	-7,40999
CASP5	-0,12086	1,329547	-0,08907	0,932209	0,952768	-7,41
PPIL1	-0,02288	5,178117	-0,08891	0,932331	0,952824	-7,41002

ZNF169	0,057275	4,642296	0,088586	0,932579	0,953007	-7,41005
PIIG	0,011201	10,40921	0,088102	0,932946	0,953314	-7,4101
NDUFS3	-0,01297	7,787636	-0,08779	0,933186	0,953375	-7,41013
PCOLCE2	-0,08768	0,817815	-0,08768	0,933267	0,953375	-7,41014
UGP2	0,01115	7,906007	0,087676	0,933269	0,953375	-7,41014
BBS9	0,02084	4,699341	0,087668	0,933275	0,953375	-7,41015
ARHGAP29	0,087678	1,346136	0,087577	0,933344	0,953376	-7,41015
ARL13B	0,028408	6,216734	0,086665	0,934036	0,954014	-7,41025
NDUFAB1	0,015546	8,556238	0,085801	0,934692	0,954615	-7,41034
CSF1	0,02798	4,765125	0,085458	0,934952	0,954766	-7,41037
SLC4A4	0,030201	3,869181	0,085361	0,935026	0,954766	-7,41038
KLHDC10	-0,02192	5,91725	-0,08534	0,935042	0,954766	-7,41038
RASSF1	0,020038	7,091488	0,084857	0,935408	0,95507	-7,41043
MXRA7	0,0545	3,395012	0,084755	0,935486	0,955081	-7,41044
GHRLOS	0,102707	2,182126	0,08466	0,935558	0,955086	-7,41045
MRPL38	-0,09985	2,390716	-0,08388	0,936151	0,955622	-7,41053
HSPA2	-0,0817	1,625815	-0,08356	0,936396	0,955774	-7,41056
ITFG2	-0,0131	6,424191	-0,0835	0,936436	0,955774	-7,41056
SNRPD1	0,010427	8,494388	0,082418	0,93726	0,956546	-7,41067
H2AFZ	-0,01246	9,337621	-0,08216	0,937459	0,95668	-7,4107
PROK2	-0,06684	3,74318	-0,08174	0,937775	0,956934	-7,41074
IL12RB2	-0,09849	2,804838	-0,0816	0,937878	0,95697	-7,41075
KHNYN	0,009932	7,655434	0,080704	0,938561	0,957549	-7,41084
POGZ	-0,01159	8,149307	-0,08068	0,938581	0,957549	-7,41084
SLC4A1AP	0,013606	7,122307	0,080294	0,938873	0,957715	-7,41087
DYNLL2	-0,03155	6,818948	-0,08029	0,938879	0,957715	-7,41088
STT3A	0,012452	7,617461	0,080079	0,939036	0,957806	-7,41089
HIPK3	0,010275	9,105179	0,079315	0,939616	0,958328	-7,41097
ANKIB1	-0,01119	7,759906	-0,07864	0,940129	0,958782	-7,41103
THRA	0,013193	6,65882	0,078525	0,940216	0,958802	-7,41104
ZSCAN22	0,021003	3,386929	0,077704	0,94084	0,959369	-7,41112
TPK1	0,014776	6,256299	0,077047	0,941339	0,959808	-7,41118
IGHMBP2	-0,04081	4,392196	-0,07639	0,941838	0,960249	-7,41123
GP1BA	-0,08768	1,151148	-0,07599	0,942143	0,960421	-7,41127
MCAM	-0,08768	1,151148	-0,07599	0,942143	0,960421	-7,41127
ARL2BP	0,016903	7,825012	0,075118	0,942804	0,961025	-7,41135
MTBP	0,022605	4,368121	0,074145	0,943543	0,961689	-7,41143
CAB39L	-0,02261	4,390728	-0,07408	0,943592	0,961689	-7,41144
CORO1A	0,058677	4,95864	0,073429	0,944088	0,962125	-7,4115
BUD31	-0,01543	7,369229	-0,07252	0,944776	0,962757	-7,41157
DHFR	-0,01652	4,05584	-0,07228	0,944959	0,962875	-7,41159
LRMP	0,01682	7,244904	0,071754	0,945361	0,963214	-7,41164
FCRL3	-0,01948	6,07769	-0,07119	0,945787	0,963579	-7,41169
ARGLU1	0,013287	10,28339	0,070547	0,946278	0,96396	-7,41174
NDUFAB2	-0,0275	5,431888	-0,07052	0,946297	0,96396	-7,41174
DHRS1	-0,05137	5,401172	-0,07007	0,946641	0,964241	-7,41178
C22orf39	-0,01825	6,865546	-0,06906	0,947405	0,964949	-7,41186
HCFC1	0,009859	8,766919	0,06873	0,947659	0,96509	-7,41189
ATP7A	0,009667	6,90029	0,068702	0,94768	0,96509	-7,41189
MFF	-0,01042	7,874323	-0,06828	0,947998	0,965325	-7,41193
MORC2-AS1	0,050668	1,081976	0,068219	0,948047	0,965325	-7,41193
CCND1	0,056642	1,556642	0,068119	0,948123	0,965333	-7,41194

USP4	-0,01596	6,558187	-0,0677	0,94844	0,965586	-7,41197
FAM171B	-0,06422	0,967892	-0,06759	0,948526	0,965605	-7,41198
PPP1R18	-0,01066	8,92316	-0,06743	0,948643	0,965654	-7,41199
PIGX	-0,00869	6,956936	-0,06724	0,948791	0,965735	-7,41201
CES4A	0,074131	1,232053	0,066958	0,949005	0,965884	-7,41203
GEMIN4	0,02981	4,761413	0,066632	0,949253	0,966066	-7,41206
ANKUB1	0,056642	1,361654	0,065882	0,949824	0,966577	-7,41212
SPSB3	0,020027	6,276765	0,065793	0,949891	0,966577	-7,41212
NHLRC2	0,015338	6,621722	0,065227	0,950322	0,966916	-7,41217
IFT43	-0,02943	4,059952	-0,06517	0,950362	0,966916	-7,41217
IDI1	0,013426	7,59093	0,064995	0,950498	0,966985	-7,41218
MAD1L1	0,020071	4,624152	0,063375	0,95173	0,968169	-7,41231
STAU2	-0,01056	7,201263	-0,06315	0,951898	0,96827	-7,41232
SOX13	0,081704	1,625815	0,062832	0,952143	0,968449	-7,41235
ZNF90	0,023463	3,214175	0,062145	0,952665	0,968911	-7,4124
TFAP2E	0,064215	1,301226	0,061743	0,952971	0,969127	-7,41243
ANKRD13A	0,009356	8,090377	0,061603	0,953078	0,969127	-7,41244
TBCCD1	-0,03759	4,635263	-0,06157	0,953104	0,969127	-7,41244
COX6B1	-0,0126	7,908448	-0,06151	0,953152	0,969127	-7,41244
THUMPD1	0,014134	8,758743	0,061397	0,953234	0,969141	-7,41245
ST13P4	0,050668	1,610296	0,060975	0,953555	0,969397	-7,41248
PMM2	-0,01161	5,959136	-0,06072	0,953749	0,969525	-7,4125
MRPL4	-0,02808	5,281948	-0,0598	0,954446	0,970164	-7,41257
HMGB1	0,00913	10,00949	0,059507	0,954672	0,970323	-7,41259
NAPEPLD	0,016875	5,406716	0,058983	0,95507	0,970659	-7,41262
EPHA1	0,031036	2,586933	0,05884	0,955179	0,970699	-7,41263
DENND4B	-0,01822	7,36	-0,05857	0,955387	0,970826	-7,41265
KDM3A	-0,01539	8,486661	-0,0585	0,955441	0,970826	-7,41266
LTN1	0,007512	8,110923	0,058307	0,955585	0,970902	-7,41267
BAIAP3	-0,05067	1,415309	-0,05664	0,956852	0,97212	-7,41278
GZMA	0,012668	8,765455	0,056329	0,957089	0,972291	-7,4128
HIST1H2BN	0,050668	1,415309	0,05602	0,957324	0,97246	-7,41282
WDR61	-0,00977	6,346694	-0,0557	0,957567	0,972636	-7,41285
FAM89A	0,019595	4,294624	0,055562	0,957673	0,972675	-7,41285
RNASEH2B	-0,007	8,090048	-0,05475	0,95829	0,973231	-7,41291
ITGAE	0,015506	5,802254	0,054489	0,95849	0,973299	-7,41292
CCNE1	0,043094	2,990511	0,054364	0,958585	0,973299	-7,41293
REXO1	0,038492	2,816685	0,054356	0,95859	0,973299	-7,41293
SDR39U1	-0,02221	6,160326	-0,0543	0,958633	0,973299	-7,41294
SRSF9	0,008701	8,015157	0,054171	0,958731	0,97333	-7,41294
AFMID	-0,02749	3,419326	-0,0537	0,959088	0,973622	-7,41297
TOR1AIP1	0,008723	8,057755	0,053535	0,959216	0,973681	-7,41298
SAR1A	0,007921	8,137608	0,053324	0,959376	0,973774	-7,413
CCDC14	0,009681	6,954861	0,053177	0,959488	0,973818	-7,41301
FDPS	-0,00706	6,822765	-0,05289	0,959704	0,973955	-7,41302
CENPT	-0,01488	4,613699	-0,05282	0,959761	0,973955	-7,41303
TBC1D5	0,00734	8,178927	0,052055	0,960342	0,974474	-7,41308
C9orf153	-0,06422	1,829547	-0,05146	0,960797	0,974867	-7,41311
CPT1B	0,03712	3,131844	0,051194	0,960997	0,974956	-7,41313
FOXO2	0,033179	2,814028	0,051149	0,961031	0,974956	-7,41313
ZNF367	0,024667	4,624547	0,051069	0,961092	0,974956	-7,41314
GGPS1	0,010048	6,444575	0,050667	0,961398	0,975196	-7,41316

PLA2G6	0,027205	2,53435	0,049701	0,962134	0,975872	-7,41322
CDS2	-0,0083	7,398566	-0,04952	0,962269	0,97594	-7,41323
PRKY	-0,01066	8,054985	-0,04826	0,963233	0,976848	-7,4133
TBC1D14	-0,00858	6,93403	-0,04766	0,963687	0,977237	-7,41334
RFC4	0,010998	6,23943	0,047458	0,96384	0,977323	-7,41335
NEIL3	-0,01355	2,383201	-0,0471	0,96411	0,977527	-7,41337
P2RY1	-0,05067	1,081976	-0,0469	0,964262	0,97761	-7,41338
TFE3	0,008196	8,427706	0,046677	0,964435	0,977653	-7,41339
IL7R	-0,00674	11,43036	-0,04667	0,964443	0,977653	-7,41339
ZC3HC1	0,023795	4,438047	0,04611	0,964867	0,978013	-7,41342
MMAB	-0,02282	4,103355	-0,04562	0,965236	0,978318	-7,41345
TM9SF1	-0,03877	3,934051	-0,04546	0,96536	0,978372	-7,41346
CYP2U1	-0,02107	5,029867	-0,04528	0,965502	0,978446	-7,41347
ASAP2	0,033179	2,675683	0,044968	0,965737	0,978614	-7,41348
POLR3B	0,020602	4,350859	0,043958	0,966506	0,979323	-7,41354
KCNQ1	0,008292	5,470839	0,043323	0,966989	0,979681	-7,41357
LIMK2	-0,01085	5,757677	-0,04331	0,966997	0,979681	-7,41357
NXF1	-0,00778	7,807161	-0,04311	0,967147	0,979763	-7,41358
C6orf62	-0,00706	10,00189	-0,04292	0,967298	0,979845	-7,41359
ZNF76	-0,01245	5,921413	-0,04209	0,967928	0,980413	-7,41363
SPARC	-0,04813	2,709159	-0,04135	0,968489	0,980911	-7,41367
CCDC117	0,006051	7,231744	0,040939	0,968804	0,981159	-7,41369
RNF166	-0,00873	7,74372	-0,04068	0,968999	0,981287	-7,4137
TWF1	-0,0079	6,65385	-0,04045	0,96918	0,9814	-7,41371
PHF23	0,005378	6,82703	0,040298	0,969293	0,981431	-7,41372
RPE	-0,00994	6,341304	-0,04022	0,96935	0,981431	-7,41372
ZFP3	-0,01355	3,616681	-0,03992	0,969578	0,981592	-7,41373
ACBD6	0,006612	6,170407	0,03968	0,969763	0,981708	-7,41375
GRAMD1C	0,041844	3,03572	0,039425	0,969957	0,981835	-7,41376
DCP2	0,008554	7,945349	0,038867	0,970382	0,982173	-7,41378
MAPK13	-0,00676	5,899283	-0,0388	0,97043	0,982173	-7,41379
KLHL17	0,017747	4,158074	0,037448	0,971463	0,983148	-7,41385
RNF141	-0,00557	6,047072	-0,03602	0,972548	0,984176	-7,41391
ZNF280D	-0,00675	6,435974	-0,03582	0,972705	0,984265	-7,41392
SREK1	0,005226	9,137745	0,035406	0,973018	0,984494	-7,41394
ZNF391	-0,03318	1,952374	-0,03534	0,973072	0,984494	-7,41394
EIF2AK1	-0,0049	7,85008	-0,03451	0,973697	0,985057	-7,41397
PRPSAP1	-0,00546	6,304812	-0,03437	0,973806	0,985097	-7,41398
ARL6IP6	0,004785	6,579941	0,03407	0,974036	0,985258	-7,41399
FAM216A	0,010401	6,916488	0,033967	0,974114	0,985267	-7,41399
NKTR	-0,00541	10,34952	-0,0335	0,974468	0,985554	-7,41401
ZNF586	0,009698	4,299572	0,033134	0,974749	0,985768	-7,41403
CENPB	0,014691	5,877533	0,032209	0,975453	0,986296	-7,41406
ATRNL1	-0,03104	1,317815	-0,03217	0,975481	0,986296	-7,41406
PPP3R2	0,031036	1,317815	0,032173	0,975481	0,986296	-7,41406
CELF1	-0,00405	10,06217	-0,03203	0,97559	0,986336	-7,41407
ZSWIM1	-0,01022	4,441507	-0,03171	0,975836	0,986469	-7,41408
ABCB7	0,005178	7,148866	0,031673	0,975861	0,986469	-7,41408
C5orf22	0,007541	6,469283	0,031432	0,976046	0,986585	-7,41409
SEC61G	-0,00485	9,677228	-0,03126	0,976174	0,986644	-7,4141
CCNG2	0,007429	7,360414	0,031103	0,976296	0,986688	-7,4141
GATAD1	-0,00836	6,872858	-0,03102	0,976357	0,986688	-7,41411

ZNF785	-0,01242	4,585079	-0,03075	0,976562	0,986825	-7,41412
FAM200B	0,006001	6,879423	0,030347	0,976872	0,987067	-7,41413
GLI1	0,023463	1,452374	0,029278	0,977687	0,98782	-7,41417
TAF1L	-0,02346	2,559684	-0,02777	0,978835	0,98891	-7,41422
ABHD15	0,007223	6,428016	0,027172	0,979291	0,989299	-7,41424
UBXN8	0,007879	5,047034	0,026615	0,979715	0,989597	-7,41426
PIGF	0,012028	4,651407	0,026602	0,979725	0,989597	-7,41426
MPV17	0,005347	6,217292	0,024852	0,981058	0,990872	-7,41431
PHACTR2	-0,00325	8,817924	-0,02347	0,982109	0,991862	-7,41435
RBM11	0,023463	1,785708	0,023157	0,98235	0,992035	-7,41436
CD48	-0,00318	9,718347	-0,02276	0,982656	0,992224	-7,41437
CPNE3	-0,00383	8,499942	-0,02273	0,982677	0,992224	-7,41437
VPS4B	-0,00319	8,785137	-0,02245	0,982887	0,992364	-7,41438
C10orf25	-0,02346	1,785708	-0,02127	0,983789	0,993205	-7,41441
SUMO1	-0,00307	7,423943	-0,02068	0,984235	0,993584	-7,41442
TXNDC11	0,003514	6,407599	0,020341	0,984496	0,993776	-7,41443
LRRCC1	0,003379	6,115066	0,019565	0,985087	0,994302	-7,41445
CPD	-0,00231	7,627876	-0,0189	0,985597	0,994746	-7,41446
CCDC6	0,003529	7,247163	0,018497	0,985901	0,994962	-7,41447
CEP250	0,007801	5,534087	0,018431	0,985952	0,994962	-7,41447
MAN2A1	-0,00245	9,118026	-0,01825	0,986092	0,995032	-7,41448
ZNF215	0,022371	1,808625	0,01789	0,986364	0,995236	-7,41449
CEP112	-0,01355	2,383201	-0,01711	0,98696	0,99562	-7,4145
RIC8A	0,00311	6,696236	0,017052	0,987003	0,99562	-7,4145
FAM193B	0,005415	5,620916	0,016974	0,987062	0,99562	-7,4145
AP4M1	0,017489	2,260374	0,016816	0,987183	0,99562	-7,41451
ID3	0,002785	7,387517	0,01678	0,98721	0,99562	-7,41451
ARFGEF2	-0,00333	8,110419	-0,01675	0,987236	0,99562	-7,41451
PDE4DIP	0,002574	6,709774	0,016744	0,987238	0,99562	-7,41451
ZMYND19	0,009638	4,980035	0,016539	0,987394	0,995706	-7,41451
NAV2	0,019631	2,645446	0,016331	0,987552	0,995795	-7,41452
TBC1D23	0,002798	7,139	0,016111	0,98772	0,995893	-7,41452
NEMF	-0,00191	9,141989	-0,01533	0,988318	0,996351	-7,41454
PRKDC	-0,00248	8,169883	-0,0152	0,988417	0,996351	-7,41454
CCDC28B	0,008043	4,437091	0,015196	0,988418	0,996351	-7,41454
STX17	0,002259	6,775481	0,015145	0,988456	0,996351	-7,41454
ANXA3	-0,01355	2,049868	-0,01462	0,988859	0,996656	-7,41455
07-mar	0,001802	9,230358	0,014562	0,9889	0,996656	-7,41455
TP53INP1	0,002424	6,909936	0,014256	0,989133	0,99682	-7,41455
KLC2	-0,00734	3,280245	-0,01389	0,989416	0,997034	-7,41456
L3MBTL2	-0,00554	5,812579	-0,01349	0,989715	0,997264	-7,41457
ARHGEF19	-0,00323	4,500568	-0,01132	0,991373	0,998864	-7,4146
EP300	-0,00213	9,152094	-0,01111	0,99153	0,9989	-7,4146
DENND2D	0,002799	6,882798	0,011068	0,991563	0,9989	-7,4146
VPS13A	0,001877	8,35424	0,010993	0,991621	0,9989	-7,4146
ENDOD1	-0,00359	4,60639	-0,01072	0,991825	0,999034	-7,41461
CARD11	0,002705	6,37917	0,010572	0,991942	0,999081	-7,41461
ELP3	-0,00204	5,854624	-0,01024	0,992193	0,999262	-7,41461
CNNM3	0,002496	5,185311	0,009555	0,992717	0,999718	-7,41462
SRP54	-0,00154	7,588943	-0,00939	0,992842	0,999774	-7,41462
FUK	-0,00718	3,795992	-0,00883	0,993268	0,99997	-7,41463
ACVR2A	-0,00335	5,259869	-0,00881	0,993281	0,99997	-7,41463

ATMIN	-0,00125	7,508961	-0,0088	0,993293	0,99997	-7,41463
NDFIP1	-0,00121	8,548527	-0,00876	0,99332	0,99997	-7,41463
MSI2	-0,00124	8,182822	-0,00831	0,993662	1	-7,41463
NAE1	-0,00192	7,623086	-0,00821	0,993739	1	-7,41463
UBQLN2	0,001334	7,930578	0,008041	0,993871	1	-7,41464
CARD8	0,001024	8,80454	0,007635	0,99418	1	-7,41464
COPB2	0,0016	8,529901	0,007494	0,994287	1	-7,41464
GTF2IRD2	0,005691	3,328606	0,007185	0,994523	1	-7,41464
CHCHD3	0,001455	5,785638	0,005907	0,995497	1	-7,41465
TRERF1	-0,00069	7,439802	-0,0051	0,996114	1	-7,41466
C6orf203	-0,00158	6,109048	-0,00448	0,996587	1	-7,41466
EPM2A	-0,00117	4,282417	-0,00341	0,997404	1	-7,41467
ZNF692	0,001368	4,421578	0,003308	0,997478	1	-7,41467
TRAPPC4	0,000603	7,833517	0,003301	0,997484	1	-7,41467
MTHFS	-0,00084	5,209368	-0,00284	0,997834	1	-7,41467
SYDE2	0,003549	2,694046	0,002827	0,997845	1	-7,41467
KIAA1958	0,001047	4,61464	0,002197	0,998325	1	-7,41467
UTRN	-0,00033	9,75261	-0,00205	0,998437	1	-7,41467
PPP4R1L	-0,0005	4,810902	-0,00203	0,99845	1	-7,41467
DCAF12	0,000369	7,7075	0,002014	0,998465	1	-7,41467
POLR3D	-0,00026	6,589972	-0,00185	0,998591	1	-7,41467
SNRNP35	5,78E-05	5,827238	0,000207	0,999842	1	-7,41467
ABTB2	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
ADGB	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
ARSJ	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
BBS1	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
BCL2L14	-3,63E-16	1,056642	-3,56E-16	1	1	-7,41467
BOK-AS1	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
C6orf163	-1,81E-16	1	-3,56E-16	1	1	-7,41467
CCDC148	-1,81E-16	0,773976	-1,92E-16	1	1	-7,41467
CD34	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
CHAD	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
COL4A5	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
CYP4F8	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
DACH2	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
DEGS2	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
DGKB	-3,63E-16	1,723308	-2,36E-16	1	1	-7,41467
DISP1	-1,81E-16	0,773976	-1,92E-16	1	1	-7,41467
DNAJB7	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
FABP5	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
FOXM1	-1,81E-16	0,528321	-2,78E-16	1	1	-7,41467
FTH1P3	-1,81E-16	0,528321	-2,78E-16	1	1	-7,41467
GNAZ	-1,81E-16	1	-2,55E-16	1	1	-7,41467
GRM8	-1,81E-16	0,666667	-2,79E-16	1	1	-7,41467
HINT2	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
IGFN1	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
IL17RD	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
KIAA1522	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
KIF2C	-9,06E-17	0,666667	-1,39E-16	1	1	-7,41467
KIR2DL1	-1,70E-16	2,935785	-2,02E-16	1	1	-7,41467
KLHL31	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
LPA	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467

LRCH4	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
LRGUK	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
LRRN1	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
MAGEB18	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
MALAT1	-1,45E-15	15,09527	-1,21E-14	1	1	-7,41467
MAP1LC3A	-1,81E-16	0,666667	-2,79E-16	1	1	-7,41467
MIR137HG	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
MIR600HG	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
MTCP1	-2,72E-16	1,302297	-3,24E-16	1	1	-7,41467
MTSS1L	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
NALCN	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
NUP62CL	-9,06E-17	0,528321	-1,39E-16	1	1	-7,41467
PAX6	-9,06E-17	0,861654	-1,58E-16	1	1	-7,41467
POU5F1	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
PPP1R3C	-9,06E-17	0,666667	-1,39E-16	1	1	-7,41467
PRDM6	-1,81E-16	0,666667	-2,79E-16	1	1	-7,41467
PREX2	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
PRR16	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
PSD	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
RAB3C	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
RHOXF1	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
RNF208	-1,81E-16	0,528321	-2,78E-16	1	1	-7,41467
SHISA3	-5,44E-16	0,773976	-5,75E-16	1	1	-7,41467
SLCO1C1	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
SNORA20	-1,81E-16	1,302297	-2,16E-16	1	1	-7,41467
SNORA58	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
SNORA72	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
SPATA9	-9,06E-17	0,666667	-1,39E-16	1	1	-7,41467
STK32B	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
TBX2	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
TMEM132C	-9,06E-17	0,666667	-1,39E-16	1	1	-7,41467
TMOD1	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
TRO	-2,72E-16	0,333333	-6,45E-16	1	1	-7,41467
TRPA1	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
UBAC2-AS1	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
USP29	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
WASH2P	-1,81E-16	1,302297	-2,16E-16	1	1	-7,41467
WDR34	-5,44E-16	1,528321	-7,50E-16	1	1	-7,41467
ZBBX	-1,81E-16	0,333333	-4,30E-16	1	1	-7,41467
ZNF35	-2,72E-16	2,547952	-5,47E-16	1	1	-7,41467
ZNF460	-4,99E-16	3,043094	-7,77E-16	1	1	-7,41467
ZNF471	-2,27E-17	0,333333	-5,38E-17	1	1	-7,41467
ZNF662	-9,06E-17	0,666667	-1,11E-16	1	1	-7,41467
ZNF69	-1,81E-16	1,797439	-1,71E-16	1	1	-7,41467

Material	Well	CXCL10	CXCL11	CXCL9	IFN-g
V4C3	D3	4962,76	58,82	26514,37	287,85
V4C3	D4	5876,93	81,95	31343,47	347,66
V4C3	D5	3598,75	54,27	10280,95	340,25
Unt	F3	16848.98*	3372,52	50378.73*	552,4
Unt	F4	16848.98*	3293	50378.73*	493,78
Unt	F6	16848.98*	1823,88	50378.73*	463,75

[illegible]

Cellular Effects of Sildenafil (Viagra) JAK/STAT Signaling	Cellular Effects of Sildenafil (Viagra) JAK/STAT Signaling	1	2.02	0.125	#####	7/244 (5%)	0/144 (0%)	12/144 (8%)	136/144 (88%)
LXR/RXR Activation Inflammasome pathway	LXR/RXR Activation Inflammasome Pathway	1	2.02	0.13	#####	10/123 (8%)	0/82 (0%)	2/82 (2%)	70/82 (85%)
Breast Cancer Regulation by Stathmin3 Interferon Signaling	Breast Cancer Regulation by Stathmin3 Interferon Signaling	1	2.02	0.13	#####	10/123 (8%)	0/123 (0%)	3/123 (2%)	107/123 (87%)
GPS Signaling Pathway	GPS Signaling Pathway	1	2.01	0.25	#####	1/20 (5%)	0/20 (0%)	1/20 (5%)	15/20 (75%)
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses		1.98	0.129	#####	0/124 (0%)	0/124 (0%)	10/124 (8%)	108/124 (87%)
PI3K Signaling in B Lymphocytes WNT/Ca ²⁺ pathway Urate Biosynthesis/Inosine 5' phosphate Degradation	PI3K Signaling in B Lymphocytes WNT/Ca ²⁺ pathway Urate Biosynthesis/Inosine 5' phosphate Degradation		1.91	0.124	#####	0/137 (0%)	0/137 (0%)	4/137 (3%)	120/137 (88%)
Dendritic Cell Maturation	Dendritic Cell Maturation		1.89	0.0995	#####	2/382 (0%)	0/382 (0%)	8/382 (2%)	344/382 (90%)
Aldosterone Signaling in Epithelial Cells Acetate Receiving (Cytosolic) Tetrahydrobiopterin Biosynthesis I Tetrahydrobiopterin Biosynthesis II L-serine Degradation	Aldosterone Signaling in Epithelial Cells Acetate Receiving (Cytosolic) Tetrahydrobiopterin Biosynthesis I Tetrahydrobiopterin Biosynthesis II L-serine Degradation		1.88	0.119	#####	1/160 (0%)	0/160 (0%)	3/160 (2%)	141/160 (88%)
Sphingosine 1-phosphate Signaling Apatin Adipocyte Signaling Pathway Macropinosytosis Signaling Noradrenaline and Adrenaline Degradation Succinate Biosynthesis I (Animals) Chemokine Signaling	Sphingosine 1-phosphate Signaling Apatin Adipocyte Signaling Pathway Macropinosytosis Signaling Noradrenaline and Adrenaline Degradation Succinate Biosynthesis I (Animals) Chemokine Signaling		1.87	0.667	#####	2/3 (0%)	0/3 (0%)	0/3 (0%)	1/3 (33%)
Hepatic Cholestasis	Hepatic Cholestasis		1.87	0.667	#####	2/3 (0%)	0/3 (0%)	0/3 (0%)	1/3 (33%)
Pulmonary Healing Signaling Pathway Aerin Interactions at Neuromuscular Junction	Pulmonary Healing Signaling Pathway Aerin Interactions at Neuromuscular Junction		1.78	0.112	#####	1/197 (0%)	0/197 (0%)	9/197 (5%)	175/197 (89%)
Calcium Signaling	Calcium Signaling		1.76	0.11	#####	1/210 (0%)	0/210 (0%)	8/210 (4%)	187/210 (89%)
RHOGDG Signaling	RHOGDG Signaling		1.72	0.108	#####	1/212 (0%)	0/212 (0%)	8/212 (4%)	189/212 (89%)
Xenobiotic Metabolism Signaling	Xenobiotic Metabolism Signaling		1.72	0.103	#####	1/271 (0%)	0/271 (0%)	6/271 (2%)	243/271 (90%)
Glioma Signaling	Glioma Signaling		1.71	0.123	#####	1/122 (0%)	0/122 (0%)	3/122 (2%)	107/122 (88%)
IL-4 Signaling Salvage Pathways of Pyrimidine Deoxynucleotides GDP Guanine Biosynthesis Role of JAK2 in Hormone like Cytokine Signaling	IL-4 Signaling Salvage Pathways of Pyrimidine Deoxynucleotides GDP Guanine Biosynthesis Role of JAK2 in Hormone like Cytokine Signaling		1.71	0.333	#####	1/90 (1%)	0/90 (0%)	1/90 (1%)	78/90 (87%)
Circadian Rhythm Signaling	Circadian Rhythm Signaling		1.64	0.103	#####	1/263 (0%)	0/263 (0%)	1/263 (0%)	236/263 (90%)
Synaptogenesis Signaling Pathway	Synaptogenesis Signaling Pathway		1.63	0.0994	#####	1/312 (0%)	0/312 (0%)	1/312 (0%)	281/312 (90%)
Opioid Signaling Pathway	Opioid Signaling Pathway		1.61	0.101	#####	1/277 (0%)	0/277 (0%)	1/277 (0%)	249/277 (90%)
Adrenomedullin signaling pathway COP-daclyferonol Biosynthesis I	Adrenomedullin signaling pathway COP-daclyferonol Biosynthesis I		1.63	0.108	#####	0/194 (0%)	0/194 (0%)	8/194 (4%)	173/194 (89%)
Neuregulin Signaling Putrescine Degradation III Glucose and Glucose-1-phosphate Degradation Thrombospondin Signaling	Neuregulin Signaling Putrescine Degradation III Glucose and Glucose-1-phosphate Degradation Thrombospondin Signaling		1.62	0.122	#####	0/115 (0%)	0/115 (0%)	4/115 (3%)	102/115 (88%)
Insulin Secretion Signaling Pathway	Insulin Secretion Signaling Pathway		1.57	0.101	#####	0/267 (0%)	0/267 (0%)	12/267 (4%)	240/267 (90%)
Thrombin Signaling	Thrombin Signaling		1.55	0.105	#####	0/220 (0%)	0/220 (0%)	10/220 (5%)	197/220 (90%)
LPs/IL-1 Mediated Inhibition of KIR Function D-myo-inositol (1,4,5)-Trisphosphate Biosynthesis	LPs/IL-1 Mediated Inhibition of KIR Function D-myo-inositol (1,4,5)-Trisphosphate Biosynthesis		1.53	0.104	#####	0/221 (0%)	0/221 (0%)	1/221 (0%)	198/221 (90%)
Apatin Endothelial Signaling Pathway Caveolar-mediated Endocytosis Signaling MIF-mediated Glucocorticoid Regulation Glutathione-mediated Detoxification Phosphatidylglycerol Biosynthesis II (Non-plastidic) Apatin Cardiomycyte Signaling Pathway	Apatin Endothelial Signaling Pathway Caveolar-mediated Endocytosis Signaling MIF-mediated Glucocorticoid Regulation Glutathione-mediated Detoxification Phosphatidylglycerol Biosynthesis II (Non-plastidic) Apatin Cardiomycyte Signaling Pathway		1.53	0.114	#####	0/140 (0%)	0/140 (0%)	5/140 (4%)	124/140 (89%)
CXCR4 Signaling	CXCR4 Signaling		1.45	0.108	#####	0/166 (0%)	0/166 (0%)	4/166 (2%)	148/166 (89%)
Germ Cell-Sertoli Cell Junction Signaling Tryptophan Degradation X (Mammalian, via Tryptamine) Purine Nucleotides Degradation II (Aerobic) Ethanol Degradation IV Cell Cycle: G1/S Checkpoint Regulation Prostate Cancer Signaling	Germ Cell-Sertoli Cell Junction Signaling Tryptophan Degradation X (Mammalian, via Tryptamine) Purine Nucleotides Degradation II (Aerobic) Ethanol Degradation IV Cell Cycle: G1/S Checkpoint Regulation Prostate Cancer Signaling		1.43	0.211	#####	0/19 (0%)	0/19 (0%)	0/19 (0%)	15/19 (79%)
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway		1.4	0.104	#####	0/192 (0%)	0/192 (0%)	10/192 (5%)	172/192 (90%)
HF1a Signaling Unfolded protein response Arsenate Detoxification I (Glutaredoxin) Glycerol Degradation I	HF1a Signaling Unfolded protein response Arsenate Detoxification I (Glutaredoxin) Glycerol Degradation I		1.4	0.103	#####	0/204 (0%)	0/204 (0%)	4/204 (2%)	183/204 (90%)
D-myo-inositol-5-phosphate Metabolism IL-3 Signaling IL-17A Signaling in Fibroblasts	D-myo-inositol-5-phosphate Metabolism IL-3 Signaling IL-17A Signaling in Fibroblasts		1.38	0.104	#####	0/193 (0%)	0/193 (0%)	10/193 (5%)	173/193 (90%)
G-Protein Coupled Receptor Signaling UDP-N-acetyl-D-glactosamine Biosynthesis II Oxidative Ethanol Degradation III	G-Protein Coupled Receptor Signaling UDP-N-acetyl-D-glactosamine Biosynthesis II Oxidative Ethanol Degradation III		1.36	0.0856	#####	0/689 (0%)	0/689 (0%)	23/689 (3%)	630/689 (91%)
cAMP-mediated signaling	cAMP-mediated signaling		1.35	0.0996	#####	0/231 (0%)	0/231 (0%)	1/231 (0%)	208/231 (90%)
Role of NFAT in Cardiac Hypertrophy	Role of NFAT in Cardiac Hypertrophy		1.34	0.1	#####	0/219 (0%)	0/219 (0%)	7/219 (3%)	197/219 (90%)
Dilated Cardiomyopathy Signaling Pathway	Dilated Cardiomyopathy Signaling Pathway		1.34	0.108	#####	0/148 (0%)	0/148 (0%)	8/148 (5%)	132/148 (89%)
Endocannabinoid Neuronal Synapse Pathway Bladder Cancer Signaling Melatonin Signaling	Endocannabinoid Neuronal Synapse Pathway Bladder Cancer Signaling Melatonin Signaling		1.32	0.114	#####	0/214 (0%)	0/214 (0%)	5/214 (2%)	102/214 (89%)
			1.32	0.129	#####	0/70 (0%)	0/70 (0%)	3/70 (4%)	61/70 (87%)

ACTA2,ACTB,ACTG1,ADCY2,ADCY7,CACNA,CALM1 [includes
other:IL1,IL6,IL10,IL11,IL12,IL13,IL14,IL15,IL16,IL17,IL18,IL19,IL20,IL21,IL22,IL23,IL24,IL25,IL26,IL27,IL28,IL29,IL30,IL31,IL32,IL33,IL34,IL35,IL36,IL37,IL38,IL39,IL40,IL41,IL42,IL43,IL44,IL45,IL46,IL47,IL48,IL49,IL50,IL51,IL52,IL53,IL54,IL55,IL56,IL57,IL58,IL59,IL60,IL61,IL62,IL63,IL64,IL65,IL66,IL67,IL68,IL69,IL70,IL71,IL72,IL73,IL74,IL75,IL76,IL77,IL78,IL79,IL80,IL81,IL82,IL83,IL84,IL85,IL86,IL87,IL88,IL89,IL90,IL91,IL92,IL93,IL94,IL95,IL96,IL97,IL98,IL99,IL100,IL101,IL102,IL103,IL104,IL105,IL106,IL107,IL108,IL109,IL110,IL111,IL112,IL113,IL114,IL115,IL116,IL117,IL118,IL119,IL120,IL121,IL122,IL123,IL124,IL125,IL126,IL127,IL128,IL129,IL130,IL131,IL132,IL133,IL134,IL135,IL136,IL137,IL138,IL139,IL140,IL141,IL142,IL143,IL144,IL145,IL146,IL147,IL148,IL149,IL150,IL151,IL152,IL153,IL154,IL155,IL156,IL157,IL158,IL159,IL160,IL161,IL162,IL163,IL164,IL165,IL166,IL167,IL168,IL169,IL170,IL171,IL172,IL173,IL174,IL175,IL176,IL177,IL178,IL179,IL180,IL181,IL182,IL183,IL184,IL185,IL186,IL187,IL188,IL189,IL190,IL191,IL192,IL193,IL194,IL195,IL196,IL197,IL198,IL199,IL200,IL201,IL202,IL203,IL204,IL205,IL206,IL207,IL208,IL209,IL210,IL211,IL212,IL213,IL214,IL215,IL216,IL217,IL218,IL219,IL220,IL221,IL222,IL223,IL224,IL225,IL226,IL227,IL228,IL229,IL230,IL231,IL232,IL233,IL234,IL235,IL236,IL237,IL238,IL239,IL240,IL241,IL242,IL243,IL244,IL245,IL246,IL247,IL248,IL249,IL250,IL251,IL252,IL253,IL254,IL255,IL256,IL257,IL258,IL259,IL260,IL261,IL262,IL263,IL264,IL265,IL266,IL267,IL268,IL269,IL270,IL271,IL272,IL273,IL274,IL275,IL276,IL277,IL278,IL279,IL280,IL281,IL282,IL283,IL284,IL285,IL286,IL287,IL288,IL289,IL290,IL291,IL292,IL293,IL294,IL295,IL296,IL297,IL298,IL299,IL300,IL301,IL302,IL303,IL304,IL305,IL306,IL307,IL308,IL309,IL310,IL311,IL312,IL313,IL314,IL315,IL316,IL317,IL318,IL319,IL320,IL321,IL322,IL323,IL324,IL325,IL326,IL327,IL328,IL329,IL330,IL331,IL332,IL333,IL334,IL335,IL336,IL337,IL338,IL339,IL340,IL341,IL342,IL343,IL344,IL345,IL346,IL347,IL348,IL349,IL350,IL351,IL352,IL353,IL354,IL355,IL356,IL357,IL358,IL359,IL360,IL361,IL362,IL363,IL364,IL365,IL366,IL367,IL368,IL369,IL370,IL371,IL372,IL373,IL374,IL375,IL376,IL377,IL378,IL379,IL380,IL381,IL382,IL383,IL384,IL385,IL386,IL387,IL388,IL389,IL390,IL391,IL392,IL393,IL394,IL395,IL396,IL397,IL398,IL399,IL400,IL401,IL402,IL403,IL404,IL405,IL406,IL407,IL408,IL409,IL410,IL411,IL412,IL413,IL414,IL415,IL416,IL417,IL418,IL419,IL420,IL421,IL422,IL423,IL424,IL425,IL426,IL427,IL428,IL429,IL430,IL431,IL432,IL433,IL434,IL435,IL436,IL437,IL438,IL439,IL440,IL441,IL442,IL443,IL444,IL445,IL446,IL447,IL448,IL449,IL450,IL451,IL452,IL453,IL454,IL455,IL456,IL457,IL458,IL459,IL460,IL461,IL462,IL463,IL464,IL465,IL466,IL467,IL468,IL469,IL470,IL471,IL472,IL473,IL474,IL475,IL476,IL477,IL478,IL479,IL480,IL481,IL482,IL483,IL484,IL485,IL486,IL487,IL488,IL489,IL490,IL491,IL492,IL493,IL494,IL495,IL496,IL497,IL498,IL499,IL500,IL501,IL502,IL503,IL504,IL505,IL506,IL507,IL508,IL509,IL510,IL511,IL512,IL513,IL514,IL515,IL516,IL517,IL518,IL519,IL520,IL521,IL522,IL523,IL524,IL525,IL526,IL527,IL528,IL529,IL530,IL531,IL532,IL533,IL534,IL535,IL536,IL537,IL538,IL539,IL540,IL541,IL542,IL543,IL544,IL545,IL546,IL547,IL548,IL549,IL550,IL551,IL552,IL553,IL554,IL555,IL556,IL557,IL558,IL559,IL560,IL561,IL562,IL563,IL564,IL565,IL566,IL567,IL568,IL569,IL570,IL571,IL572,IL573,IL574,IL575,IL576,IL577,IL578,IL579,IL580,IL581,IL582,IL583,IL584,IL585,IL586,IL587,IL588,IL589,IL590,IL591,IL592,IL593,IL594,IL595,IL596,IL597,IL598,IL599,IL600,IL601,IL602,IL603,IL604,IL605,IL606,IL607,IL608,IL609,IL610,IL611,IL612,IL613,IL614,IL615,IL616,IL617,IL618,IL619,IL620,IL621,IL622,IL623,IL624,IL625,IL626,IL627,IL628,IL629,IL630,IL631,IL632,IL633,IL634,IL635,IL636,IL637,IL638,IL639,IL640,IL641,IL642,IL643,IL644,IL645,IL646,IL647,IL648,IL649,IL650,IL651,IL652,IL653,IL654,IL655,IL656,IL657,IL658,IL659,IL660,IL661,IL662,IL663,IL664,IL665,IL666,IL667,IL668,IL669,IL670,IL671,IL672,IL673,IL674,IL675,IL676,IL677,IL678,IL679,IL680,IL681,IL682,IL683,IL684,IL685,IL686,IL687,IL688,IL689,IL690,IL691,IL692,IL693,IL694,IL695,IL696,IL697,IL698,IL699,IL700,IL701,IL702,IL703,IL704,IL705,IL706,IL707,IL708,IL709,IL710,IL711,IL712,IL713,IL714,IL715,IL716,IL717,IL718,IL719,IL720,IL721,IL722,IL723,IL724,IL725,IL726,IL727,IL728,IL729,IL730,IL731,IL732,IL733,IL734,IL735,IL736,IL737,IL738,IL739,IL740,IL741,IL742,IL743,IL744,IL745,IL746,IL747,IL748,IL749,IL750,IL751,IL752,IL753,IL754,IL755,IL756,IL757,IL758,IL759,IL760,IL761,IL762,IL763,IL764,IL765,IL766,IL767,IL768,IL769,IL770,IL771,IL772,IL773,IL774,IL775,IL776,IL777,IL778,IL779,IL780,IL781,IL782,IL783,IL784,IL785,IL786,IL787,IL788,IL789,IL790,IL791,IL792,IL793,IL794,IL795,IL796,IL797,IL798,IL799,IL800,IL801,IL802,IL803,IL804,IL805,IL806,IL807,IL808,IL809,IL810,IL811,IL812,IL813,IL814,IL815,IL816,IL817,IL818,IL819,IL820,IL821,IL822,IL823,IL824,IL825,IL826,IL827,IL828,IL829,IL830,IL831,IL832,IL833,IL834,IL835,IL836,IL837,IL838,IL839,IL840,IL841,IL842,IL843,IL844,IL845,IL846,IL847,IL848,IL849,IL850,IL851,IL852,IL853,IL854,IL855,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Signature original name	Signature friendly name	Gene	Source
Wolf.MHC.I_19272155	MHC I Path.	HLA-G	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC I Path.	HLA-A	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.I_19272155	MHC I Path.	HLA-B	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.I_19272155	MHC I Path.	HLA-C	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC I Path.	HLA-F	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
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Wolf.MHC.II_19272155	MHC II Path.	HLA-DRB1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
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Wolf.MHC.II_19272155	MHC II Path.	HLA-DMB	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	HLA-DPA1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	HLA-DRB1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	HLA-DMA	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	HLA-DRA	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	LCP2	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	SRGN	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Wolf.MHC.II_19272155	MHC II Path.	PTPRC	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM1	APM Path.1	HLA-A	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM1	APM Path.1	HLA-B	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM1	APM Path.1	HLA-C	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM1	APM Path.1	TAP1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
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Senbabaoglu.APM1	APM Path.1	B2M	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DMA	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DMB	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DOA	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DOB	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DPA1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
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Senbabaoglu.APM2	APM Path. 2	HLA-DRB2	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
Senbabaoglu.APM2	APM Path. 2	HLA-DOA1	https://www.sciencedirect.com/science/article/pii/S1074761318301213?via%3Dihub
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