

CLUSTAL Omega multiple sequence alignment

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MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Homo
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Gorilla
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Pan
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Nomascus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Pongo
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Theropithecus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Piliocolobus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Macaca
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Chlorocebus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Cercocebus
MTRECPSAPGPGAPLSASVLAEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Rhinopithecus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Colobus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 Mandrillus
MTRECPSAPGPGAPLSGSLVLAEEAAVVFVAVLSIHATVWDRYSWCAVALAVQAFYVQYKW 60 M.
MTRECPSAPGPGAPLSGSLVLAETAVVFVAVLSIHAAVWDRYSWCAVALAVQAFYVQYKW 60 Aotus

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DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQTAGNPFFERFGIVVAATGMA 120 Homo
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQTAGNPFFERFGIVVAATGMA 120 Gorilla
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQTAGNPFFERFGIVVAATGMA 120 Pan
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQTAGNPFFERFGIVVAATGMA 120 Nomascus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQTAGNPFFERFGIVVAATGMA 120 Pongo
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120Theropithecus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Piliocolobus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Macaca
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Chlorocebus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Cercocebus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120Rhinopithecus
DRLLQQGSAVFQFRMSANSGLLPASVMPLFGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Colobus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Mandrillus
DRLLQQGSAVFQFRMSANSGLLPASVMPLLLGLVMKERCQAAGNPFFERFGIVVAATGMA 120 M.
DRLLQQGSAVFQFRMSANSGLLPASVMPLFGLVMKERCQAAGNPFFERFGIVVAATGMA 120 Aotus

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VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Homo
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Gorilla
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Pan
VALFSSVLALGITRPVPTNTCILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Nomascus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Pongo
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180Theropithecus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Piliocolobus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Macaca
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Chlorocebus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Cercocebus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180Rhinopithecus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Colobus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Mandrillus
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 M.
VALFSSVLALGITRPVPTNTCVILGLAGGVIIYIMKHSLSVGEVIEVLEVLLIFVYLNMI 180 Aotus

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LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Homo
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Gorilla
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Pan
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Nomascus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Pongo
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Theropithecus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Piliocolobus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Macaca
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Chlorocebus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Cercocebus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Rhinopithecus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Colobus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Mandrillus
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	M.
LLYLLPRCFTPGEALLVLGGISFVLNQLIKRSLTLVESQGDVDFLLVVVVGMVLMGIF	240	Aotus

FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Homo
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Gorilla
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Pan
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Nomascus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Pongo
FSTLFVFMDSGTWASSIFFHLMTCVLTGLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Theropithecus
FSTLFI ¹ FMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Piliocolobus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Macaca
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Chlorocebus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Cercocebus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Rhinopithecus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Colobus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Mandrillus
FSTLFVFMDSGTWASSIFFHLMTCVLSLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	M.
FSTLFVFMDSGTWASSIFFHLMTCVLGLGVVLPWLHRLIRRNPLLWLLQFLFQTDTRIYL	300	Aotus

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LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Homo
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Gorilla
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Pan
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Nomascus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Pongo
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Theropithecus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Piliocolobus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Macaca
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Chlorocebus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Cercocebus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Rhinopithecus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Colobus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Mandrillus
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	M.
LAYWSLLATLACLVLVLYQNAKRSSSESKKHQAPTIARKYFHLIVVATYIPGIIFDRPLLY	360	Aotus

VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW	420	Homo
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW	420	Gorilla
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW	420	Pan

VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Nomascus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSFLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Pongo
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Theropithecus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Piliocolobus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Macaca
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Chlorocebus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Cercopithecus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Rhinopithecus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Colobus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Mandrillus
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 M.
VAATVCLAVFIFLEYVRYFRIKPLGHTLRSLLSLFLDERDSGPLILTHIYLLLGMSLPIW 420 Aotus

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LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Homo
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Gorilla
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Pan
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Nomascus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Pongo
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Theropithecus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Piliocolobus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Macaca
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Chlorocebus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Cercopithecus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTMASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Rhinopithecus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Colobus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Mandrillus
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 M.
LIPRPCTQKGS LGGARALVPYAGVLAVGVGDTVASIFGSTMGEIRWPGTKKTFEGTMTSI 480 Aotus

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FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Homo
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Gorilla
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Pan
FAQIISVAIVILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Nomascus
FAQIISVALILIFDSGVDLNYSYTWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Pongo
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Theropithecus
FAQIISVALILIFDSGVDVNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Piliocolobus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Macaca
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Chlorocebus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Cercopithecus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Rhinopithecus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Colobus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Mandrillus
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 M.
FAQIISVALILIFDSGVDLNYSYAWILGSISTVSLLEAYTTQIDNLLLPLYLLILLMA 538 Aotus

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