CLUSTAL W (1.83) multiple sequence alignment

Bos\_taurus MAT--ACKRSSGEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACT

Danio\_rerio -----------------------MKRAAAKHLIERYYHQLTEGCGNEACT

Gallus\_gallus MAT--ACKRSPGEPHSENIETSRMKRAAAKHLIERYYHQLTEGCGNEACT

Homo\_sapiens MEKLHQCYWKSGEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACT

Mus\_musculus MAT--ACKRSPGESQSEDIEASRMKRAAAKHLIERYYHQLTEGCGNEACT

Pan\_troglodytes MAT--ACKRS-GEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACT

Rattus\_norvegicus MAT--ACKRSSGESQSEDIEASRMKRAAAKHLIERYYHQLTEGCGNEACT

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Bos\_taurus NEFCASCPTFRRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLEN-

Danio\_rerio NEACGSSPGFQRMDNNAAAIKALELYKNNAKLCDPHPSKKGASSAFPENS

Gallus\_gallus NEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGTSSAYLENN

Homo\_sapiens NEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLEN-

Mus\_musculus NEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLEN-

Pan\_troglodytes NEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLEN-

Rattus\_norvegicus NEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLEN-

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Bos\_taurus SKGASNN--CSDIKMNKKDGQGARDDFKDVTYLTEEMVYEILELCRERED

Danio\_rerio AKGAHNFSACSNGKMNHKDLPPTREDFRDLNFLTEDKVYEILSICSETED

Gallus\_gallus SKGAHNNS-CTDRKMNKKEMQGPRDDFKDVTFLTEDKIYEILELCREKED

Homo\_sapiens SKGAPNNS-CSEIKMNKKG---ARIDFKDVTYLTEEKVYEILELCRERED

Mus\_musculus SKGASNN---SEIKMNKKEG----KDFKDVIYLTEEKVYEIYEFCRESED

Pan\_troglodytes SKGAPNNS-CSEIKMNKKG---ARIDFKDVTYLTEEKVYEILELCRERED

Rattus\_norvegicus SKGASNN---SEIKMNKKE------EFKEVDYLTEEKVYEIYEFCRERED

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Bos\_taurus YSPLIRVIGRVFSSAEALVQSFRKVKQHTKEELKSLQGKDEDKDEDEKEK

Danio\_rerio YSPLIRVIGRVFSSAESLVQSFRKAKQHTKEELKSLQAKDEDKDEDEKET

Gallus\_gallus YSPLIRVIGRVFSSAEALVQSFRKAKQHTKEELKSLQGKDEDKDEDEKEK

Homo\_sapiens YSPLIRVIGRVFSSAEALVQSFRKVKQHTKEELKSLQAKDEDKDEDEKEK

Mus\_musculus YSPLIRVIGRIFSSAEALVLSFRKVKQHTKEELKSLQEKDEDKDEDEKEK

Pan\_troglodytes YSPLIRVIGRVFSSAEALVQSFRKVKQHTKEELKSLQAKDEDKDEDEKEK

Rattus\_norvegicus YSPLIRVIGRIFSSAEALVQSFRKVKQHTKEELKSLQEKDEDKDEDEKEK

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Bos\_taurus AACSAAAMEEDSEAS---SSRISDSSQGDNNLQKLGPDDVSVDIEAIRRV

Danio\_rerio ASGSSTAMEVEPEAS---ASSGDGSSHGENNVQKLGPVEVSVDIDAVRRV

Gallus\_gallus AACSAAAMEEDSGASSSSSSRIGENTQGDNNLQKLGPDEVSVDIEAVRRV

Homo\_sapiens AACSAAAMEEDSEAS---SSRIGDSSQGDNNLQKLGPDDVSVDIDAIRRV

Mus\_musculus AACSAAAMEEDSEAS---SSRMGDSSQGDNNVQKLGPDDVTVDIDAIRRV

Pan\_troglodytes AACSAAAMEEDSEAS---SSRIGDSSQGDNNLQKLGPDDVSVDIDAIRRV

Rattus\_norvegicus AACSAAAMEEDSEAS---SSRMGDSSQGDNNVQKLGPDDVTVDIDAIRRV

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Bos\_taurus YTRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRDPNYLNLFIIVME

Danio\_rerio YDRLLSNEKIEAAFLNALVYLSPNVECDLTYHNVYAADPNYLNVFIIVME

Gallus\_gallus YDRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRDPNYLNLFIIVME

Homo\_sapiens YTRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRDPNYLNLFIIVME

Mus\_musculus YSSLLANEKLETAFLNALVYLSPNVECDLTYHNVYTRDPNYLNLFIIVME

Pan\_troglodytes YTRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRDPNYLNLFIIVME

Rattus\_norvegicus YSSLLSDEKIETAFLNALVYLSPNVECDLTYHNVYTRDPNYLNLFIIVME

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Bos\_taurus NRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLVRLWSKYSADQIRRMMET

Danio\_rerio NSNLHSPEYLEIALPQFCKAMSKLPLPALAKLARLWSQYGVDQIRRLVET

Gallus\_gallus NGNLHSPEYLEMALPLFCKAMSKLPLAAQAKLVRLWSKYRADQIRRMMET

Homo\_sapiens NRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYNADQIRRMMET

Mus\_musculus NSNLHSPEYLEMALPLFCKAMCKLPLEAQGKLIRLWSKYSADQIRRMMET

Pan\_troglodytes NRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYNADQIRRMMET

Rattus\_norvegicus NRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYSADQIRRMMET

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Bos\_taurus FQQLITYKVISTDFNNRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNH

Danio\_rerio FQQLITYTVISNEFSSDNLVNEDDGVVAATKCLKIVYYANVLGGDLDTDH

Gallus\_gallus FQQLITYKVISNEFNSRNLVNDDDAVVAASKCLKMVYYANVVGGDVDTDH

Homo\_sapiens FQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNH

Mus\_musculus FQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGDVDTNH

Pan\_troglodytes FQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNH

Rattus\_norvegicus FQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGDVDTNH

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Bos\_taurus NEEDDEEPLPESSELTLQELLGEERRNKKGPRVDPLETELAVKTLDCRKP

Danio\_rerio NEEDDDEPIPESSELTLQELLGEERRNKKGPRVDPLETEMGIRASDCRKP

Gallus\_gallus NEEEDEEPIPESSELTLQELLGEERRNKKGPRVDPLETELGVKTIDCRKP

Homo\_sapiens NEEDDEEPIPESSELTLQELLGEERRNKKGPRVDPLETELGVKTLDCRKP

Mus\_musculus NEEDDEEPIPESSELTLQELLGDERRNKKGPRVDPLETELGVKTLDCRKP

Pan\_troglodytes NEEDDEEPIPESSELTLQELLGEERRNKKGPRVDPLETELGVKTLDCRKP

Rattus\_norvegicus NEEDDEEPIPESSELTLQELLGEERRNKKGPRVDPLETEIGVKTLDCRKP

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Bos\_taurus LIPFEEFINEPLNDVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

Danio\_rerio LIPFEEFINEPLNEVLEMDKDYTFFKVETESKFSFMTCPFILNAVTKNLG

Gallus\_gallus LIPFEEFINEPLNDVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

Homo\_sapiens LIPFEEFINEPLNEVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

Mus\_musculus LISFEEFINEPLNDVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

Pan\_troglodytes LIPFEEFINEPLNEVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

Rattus\_norvegicus LISFEEFINEPLNDVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLG

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Bos\_taurus LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Danio\_rerio LYYDNRIRMYSERRITALYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Gallus\_gallus LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Homo\_sapiens LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Mus\_musculus LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Pan\_troglodytes LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

Rattus\_norvegicus LYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEM

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Bos\_taurus IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Danio\_rerio IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Gallus\_gallus IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Homo\_sapiens IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Mus\_musculus IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Pan\_troglodytes IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

Rattus\_norvegicus IAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTY

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Bos\_taurus DESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

Danio\_rerio DESTKLFWFNPSSFENEGQFTLIGIVLGLAIYNNCILDVHFPMVIYRKLM

Gallus\_gallus DESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

Homo\_sapiens DESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

Mus\_musculus DEATKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

Pan\_troglodytes DESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

Rattus\_norvegicus DEATRLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLM

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Bos\_taurus GKKGTFLDLGDSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTDLFGNPM

Danio\_rerio GKKGTFRDLADSHPVLFQSLKDLMEYEGNVEEDMMITFQISQTDLFGNPL

Gallus\_gallus GKKGTFRDLADSHPVLYQSLRDLLEYEGSVEDDMMITFQISHTDLFGNPM

Homo\_sapiens GKKGTFRDLGDSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTDLFGNPM

Mus\_musculus GKKGTFRDLGDSHPVLYQSLKDLLEYEGSVEDDMMITFQISQTDLFGNPM

Pan\_troglodytes GKKGTFRDLGDSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTDLFGNPM

Rattus\_norvegicus GKKGTFCDLGDSHPILYQSLKDLLEYEGNVEDDMMITFQISQTDLFGNPM

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Bos\_taurus MYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTN

Danio\_rerio MYDLKESGDKIPVTNENRKDFVALYAEYMLNKSVEKQFKAFRRGFHMVTN

Gallus\_gallus MHDLKENGDKIPITNENRKEFVNLYADYILNKSVEKQFKAFRRGFHMVTN

Homo\_sapiens MYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTN

Mus\_musculus MYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTN

Pan\_troglodytes MYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTN

Rattus\_norvegicus MYDLKENGDKIPITNENRKEFVSLYSDYILNKSVEKQFKAFRRGFHMVTN

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Bos\_taurus ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRDSVVIREFWE

Danio\_rerio ESPLKYLFRPEEIELLICGSRNLDFQALEESTEYDGGYNKDSRIIRDFWE

Gallus\_gallus ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRDSLIIREFWE

Homo\_sapiens ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRDSVLIREFWE

Mus\_musculus ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRESVVIREFWE

Pan\_troglodytes ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRDSVLIREFWE

Rattus\_norvegicus ESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRESVVIREFWE

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Bos\_taurus IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

Danio\_rerio TVHSFEQEKKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDSDRLPTSHT

Gallus\_gallus IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

Homo\_sapiens IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

Mus\_musculus IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

Pan\_troglodytes IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

Rattus\_norvegicus IVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHT

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Bos\_taurus CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Danio\_rerio CFNVLLLPEYSTVEKLKERLLKAITYAKGFGML

Gallus\_gallus CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Homo\_sapiens CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Mus\_musculus CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Pan\_troglodytes CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

Rattus\_norvegicus CFNVLLLPEYSSKEKLKERLLKAITYAKGFGML

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