Bos\_taurus --------------------------------------------------

Canis\_lupus\_familiaris MVTRTRLCQHSGPSAYRSTCHTEGARQLCNARTWGGADLLLTPLHCPCLL

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

Homo\_sapien MGEEG-----------GSASHDEEERA-----------------------

Macaca\_mulatta MGFDGGR-------GGGPVSPDEEERA-----------------------

Mus\_musculus --------------------------------------------------

Pan\_troglodytes MGEEG-----------GSVSHDEEERA-----------------------

Rattus\_norvegicus --------------------------------------------------

Bos\_taurus -----------------------------MCAQDAFQTQRSQLVELLVS-

Canis\_lupus\_familiaris SLSLGTALIYLPGSSLGPALTTLSSPGYEMCTQEAFQTQRSQLVGLLVS-

Danio\_rerio -----------------------------MNAQQLILKQRAELLAVLCGG

Homo\_sapien ------------------SVLLGHSPGCEMCSQEAFQAQRSQLVELLVS-

Macaca\_mulatta ------------------SVLLGHFLGCEMCSQEAFQAQRSQLVELLVS-

Mus\_musculus -----------------------------MCSQEEFQAQRSQLVALLIS-

Pan\_troglodytes ------------------SVLLGHSLGCEMCSQEAFQAQRSQLVELLVS-

Rattus\_norvegicus -----------------------------MCSQEDFQAQRSQLVALLVS-

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Bos\_taurus GSLEGFESILDRLLSREVLSWEDYEGLSLVGQPISHLARRLLDTIWNKGT

Canis\_lupus\_familiaris GSLEGFESILDWLLSWEVLSWEDYEGLSLLGQPLSYLARRLLDTVWNKGT

Danio\_rerio GSDEPLESVLDLLLAQEVLVWEDYLRVRVAEKPLCANIRQLLDLVYDKGE

Homo\_sapien GSLEGFESVLDWLLSWEVLSWEDYEGFHLLGQPLSHLARRLLDTVWNKGT

Macaca\_mulatta GSLEGFESVLDWLLSWEVLSWEDYEGIHLLGQPLSHLARRLLDTVWNKGT

Mus\_musculus GSLEGFESILDWLLSWDVLSREDYEGLSLPGQPLSHSARRLLDTVWNKGV

Pan\_troglodytes GSLEGFESVLDWLLSWEVLSWEDYEGFHLLGQPLSHLARRLLDTVWNKGT

Rattus\_norvegicus GSLEGFESILDWLLSWDVLSREDYEGLSLPGQPLSHSARRLLDTVCNKGV

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Bos\_taurus WGCEQLTAAVREAQADSQPPEL---PSSWDPHSPHPA---RDLQSHRPAI

Canis\_lupus\_familiaris WGCEQLVAAVREAQTDCQALEL---SSCWDPHSPHPA---RDLQSHRPAI

Danio\_rerio DACSYFLAAIEQELAEEQKAGLCFGNGCVMVGKDRPATATSTLLADRPML

Homo\_sapien WACQKLIAAAQEAQADSQSPKL---HGCWDPHSLHPA---RDLQSHRPAI

Macaca\_mulatta WACQKLVAAAQEAQADSQSPKL---HGCWDPHSLHPA---QDLQSHRPAI

Mus\_musculus WGCQKLLEAVQEAQANSHTFEL---YGSWDTHSLHPT---RDLQSHRPAI

Pan\_troglodytes WACQKLIAAAQEAQADSQSPKL---HGCWDPHSLHPA---RDLQSHRPAI

Rattus\_norvegicus WGCQKLFEAVQEAQANSHTFEL---QGCWDVHSLHPT---RDLQSHRPAI

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Bos\_taurus VRRLYGHVEGVLDLTQQRGFISQYETDEIRRPIFTSSQRARRLLDLATVK

Canis\_lupus\_familiaris VRRLYSHVEDVLNLAWEQGFISQYERDEIRLPIFTSSQRARRLLDLATVK

Danio\_rerio VRRLRDNIDGALNILLTTGCFSIKDCDSVQLPVYTPSQQVRRLLDQVKFK

Homo\_sapien VRRLHSHVENMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK

Macaca\_mulatta VRRLHSHVEGVLDLARERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK

Mus\_musculus VRRLYNHVEAMLELAREGGFLSQYECEEIRLPIFTSSQRARRLLDLAAVK

Pan\_troglodytes VRRLHNHVENMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK

Rattus\_norvegicus VRRLCSHVEAILELARDEGFLSQYECEEIRLPIFTSSQRARRLLDLAAVK

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Bos\_taurus ANGLAAFLLQCIQELPVPL---ALPF---EDAACKKYVSKLRTVISAQSR

Canis\_lupus\_familiaris ANGLAAFLLRHVQELPVPL---AMPS---EDAACKKYMSKLRTTISSQSR

Danio\_rerio GETAAKTLLEYLEQ-PEPTSPISAEKENTPSADCLVYQKKLRSSVASQSL

Homo\_sapien ANGLAAFLLQHVQELPVPL---ALPL---EAATCKKYMAKLRTTVSAQSR

Macaca\_mulatta ANGLAAFLLQHVQELPVPL---ALPL---EAATCRKYMAKLRTTVSAQAR

Mus\_musculus ANGLAAFLLQHVRELPAPL---PLPY---EAAECQKFISKLRTMVLTQSR

Pan\_troglodytes ANGLAAFLLQHVQELPVPL---ALPL---EAATCKKYMAKLRTTVSAQSR

Rattus\_norvegicus ANGLAAFLLQHVRKLPASL---SLPY---EAAECQKFTAKLRTMVSAQSR

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Bos\_taurus FLSTYDGAENLCLEEVYTENVLEIQMEVGMAGPSQQSPTTLGLEELFSTR

Canis\_lupus\_familiaris FLSTYDGAENLCLEEIYTENVLEIRTEMGLARSPQKSPATLSLEELFSTC

Danio\_rerio FLSTYGGTGRFSLDDIYTDGHLEVMNSSGE-------TTTLGLEDVVGPM

Homo\_sapien FLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTP

Macaca\_mulatta FLSTYDGAETLCLEDIYTENGLEVWADVGMAGPPQKSPATLGLEELFSTR

Mus\_musculus FLSTYDGSENLCLEDIYTENILELQTEVGTAGALQKSPAILGLEDLFDTH

Pan\_troglodytes FLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTP

Rattus\_norvegicus FLSTYDGSENLCLEDIYTENTLELRTEVGTAGALQKSPATLGLEELFGTH

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Bos\_taurus DHFNKEADTVLVVGEAGSGKSTLLQQLHLLWASGRAFQEFLFVFPFSCRQ

Canis\_lupus\_familiaris GHLNEDADTVLVVGEAGSGKSTLLQRMHLLWASGRDFQEFLFVFPFSCRQ

Danio\_rerio GTLNEDADTVLVSGEAGSGKSTLVQRLHLLWAREALLLNTFLLFPFSCRK

Homo\_sapien GHLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGQDFQEFLFVFPFSCRQ

Macaca\_mulatta SHLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGRDFQEFLFVFPFSCRQ

Mus\_musculus GHLNRDADTILVVGEAGSGKSTLLQRLHLLWATGRSFQEFLFIFPFSCRQ

Pan\_troglodytes GHLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGRDFQEFLFVFPFSCRQ

Rattus\_norvegicus GHLNKDADTILVVGEAGSGKSTLLQRLHLLWASGQNFREFLFIFPFSCRQ

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Bos\_taurus LQCLVKPLSMRTLLFEHCCWPDLGPQDVFQVLLDHPERILLTFDGFDEFR

Canis\_lupus\_familiaris LQCVAKPLSVQMLLFEHCCWPDFGQQEVFQFLLDHPNRVLLTFDGFDEFR

Danio\_rerio LNAEHRELSLKELLFLHCCWPDRNQDEVFQFILDHPHLVLFTFDGLDEFK

Homo\_sapien LQCMAKPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVLLTFDGFDEFK

Macaca\_mulatta LQCVAKPLSVRTLLFEHCCWPDVDQEDIFQFLLDHPDRVLLTFDGFDEFK

Mus\_musculus LQCVAKPLSLRTLLFEHCCWPDVAQDDVFQFLLDHPDRVLLTFDGLDEFK

Pan\_troglodytes LQCMAKPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVLLTFDGFDEFK

Rattus\_norvegicus LQCMTKPLSLRTLLFEHCCWPDVGQDDVFQFLLDHPDRVLLTFDGLDEFK

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Bos\_taurus FRFTDQERHCCPTAPTSVQSLLFNLLQGNLLKNARKVLTSRPSAVSASLR

Canis\_lupus\_familiaris FRFSDHERHCSPTDPTSVQNLLFNLLQGNLLKNARKVLTSRPDAVSALLR

Danio\_rerio LGFTDEERHCCPTKQVPIPVLLFNLLQGTLMKGVMKVVTSRPHAVGPSLK

Homo\_sapien FRFTDRERHCSPTDPTSVQTLLFNLLQGNLLKNARKVVTSRPAAVSAFLR

Macaca\_mulatta FRFTDHERHCSPTDPTSVQTLLFNLLQGNLLKNARKVMTSRPAAVSAFLR

Mus\_musculus FRFTDRERHCSPIDPTSVQTLLFNLLQGNLLKNACKVLTSRPDAVSALLR

Pan\_troglodytes FRFTDRERHCSPTDPTSVQTLLFNLLQGNLLKNARKVVTSRPAAVSAFLR

Rattus\_norvegicus FRFTDRERHCSPLDPTSVQTLLFNLLQGNLLKNACKVLTSRPDAVSALLR

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Bos\_taurus KHVRTELSLKGFSEEGIELYLRKRHREPGVADRLLCLLRATSALHGLCHL

Canis\_lupus\_familiaris KYLRLEINLKGFSEEGIELYLRKCHREPGVADRLIRLLKTTSALHGLCHL

Danio\_rerio RYLRKEVLLKGFSPGGIDCFVKKHYSDPAMATRVIESVQGNTALLGLCHI

Homo\_sapien KYIRTEFNLKGFSEQGIELYLRKRHHEPGVADRLIRLLQETSALHGLCHL

Macaca\_mulatta KYIRTEFNLKGFSEQGIELYLRKRHREPGVADRLIRLLQGTSALHGLCHL

Mus\_musculus KFVRTELQLKGFSEEGIQLYLRKHHREPGVADRLIQLIQATSALHGLCHL

Pan\_troglodytes KYIRTEFNLKGFSEQGIELYLRKRHREPGVADRLIRLLQATSALHGLCHL

Rattus\_norvegicus KFVRTECHLKGFSEEGIKLYLRKHHREPGVADRLIHLIQATSALHGLCHL

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Bos\_taurus PVFSWMVSKCHEELLLQGRGSPKTTTDMYLLILRHFLLHASPLPLATHGL

Canis\_lupus\_familiaris PVVSWMVSKCHQELLLHGGGSPKTSTDMYLLILQHFLLHASPPDSVPHSL

Danio\_rerio PVFCWIVIKCYQELLAGQDGIPQTITDVYLLVLQHFFQRKSSQP--QSGL

Homo\_sapien PVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHATPPDSASQGL

Macaca\_mulatta PVFSWMVSKCHQELLLQEGVSPKTTTDMYLLILQHFLLHATSPDSASQGL

Mus\_musculus PVFSWMVSRCHRELLLQNRGFPTTSTDMYLLILQHFLLHASPPDSSPLGL

Pan\_troglodytes PVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHATPPDSASQGL

Rattus\_norvegicus PVFSWMVSRCHRELLLQNRGFPTTSTDMYLLILQHFLLHASPPDSFPLGL

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Bos\_taurus GPSLIQGRLPTLLHLGRLALWGLGTCCYVFSAKQLQAAHVDSEDLSLGFL

Canis\_lupus\_familiaris GSHLLRGRLPTLLHLGWLALWGLGMCCYVFSAKQLQAAHIDDEDISLGFL

Danio\_rerio GKAWLAEHLDTVLKLGELALEGLQTSCYVFSGYELQRNRITEQDVGIGFL

Homo\_sapien GPSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFL

Macaca\_mulatta GPSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFL

Mus\_musculus GPGLLQSRLSTLLHLGHLALRGLAMSCYVFSAQQLQAAQVDSDDISLGFL

Pan\_troglodytes GPSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFL

Rattus\_norvegicus GPGLLQSRLSTLLHLGHLALQGLAMSCYVFSAQQLQAAQVDSEDISLGFL

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Bos\_taurus VLAKRVVPGSTAPLEFLHITFQCFFAAFYLALSADTPPSSLRHLFQDHRP

Canis\_lupus\_familiaris VHAKTVGPGSTTPLEFLHITFQCFFAALYLVLSTDVSPSLLRQLFICHGP

Danio\_rerio IYCSDISVNDCKRYEFLHITLQCFFAALYVILNRNNDRSAISRLFQPRNR

Homo\_sapien VRAKGVVPGSTAPLEFLHITFQCFFAAFYLALSADVPPALLRHLFNCGRP

Macaca\_mulatta VRAKGVMPGSTAPLEFLHITFQCFFAAFYLAFSADVSPALLRHLFNCGRP

Mus\_musculus VRAQSSVPGSKAPLEFLHITFQCFFAAFYLAVSADTSVASLKHLFSCGRL

Pan\_troglodytes VRAKGVVPGSTAPLEFLHITFQCFFAAFYLALSADVPPALLRHLFNCGRP

Rattus\_norvegicus VRAQSVVPGSKAPLEFLHITFQCFFAAFYLAVSADTSAASLKHLFSCGRP

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Bos\_taurus ESSPLARVLPKLFLRGSRCREGSVAALLQGAEPHNLQITGAFLAGLLSQE

Canis\_lupus\_familiaris RSSLLARLLPTTCVPRSERKEGSLAALLQEAEPHNLQITAAFLAGLLSRE

Danio\_rerio QVSGLSQSCLGQCM------DHSVEE-SHEAETANLQITAQFVSGLLSQR

Homo\_sapien GNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITAAFLAGLLSRE

Macaca\_mulatta GNSPMARLLPTLCIQGSEGKDGSVAALLQKAEPHNLQITAAFLAGLLSRE

Mus\_musculus GSSLLGRLLPNLCIQGSRVKKGSEAALLQKAEPHNLQITAAFLAGLLSQQ

Pan\_troglodytes GNSPMARLLPTMCIQGSEGKDSSVAALLQKAEPHNLQITAAFLAGLLSRE

Rattus\_norvegicus GNSLLLRLLPNLCIQGSRVKG-GQAALLQKAEPHNLQITAAFLAGLLSQQ

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Bos\_taurus HRSLLAECQASETALLRRWDCVRRCLTRSLREHFRSIPPALPGEAKSMHA

Canis\_lupus\_familiaris HRGLLAECQANEEALLRLQGRAQGCLSRSLHQHFRSIPPAVPGEAKSMHA

Danio\_rerio HNNLLLECCPAA-VRERNVKQVVKSLSKRMQRHFKSIPRPVEGEKKSMHA

Homo\_sapien HWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHA

Macaca\_mulatta HWDLLAECQASEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSMHA

Mus\_musculus HRDLLAACQVSERVLLQRQARARSCLAHSLREHFHSIPPAVPGETKSMHA

Pan\_troglodytes HWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHA

Rattus\_norvegicus HRDLLAACQVPERVLLQRQARARSCLAHSLREHFHSIPPAVPGETKSMHA

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Bos\_taurus LPGFLWLIRSLYEMQEERLAREAVCRLNVGHLKLTFCGVGPAECAALAFV

Canis\_lupus\_familiaris MPGFLWLIRSLYEMQEERLAREAVRGLTVGHLKLTFCGVGPPECAALAFV

Danio\_rerio MPSFVWLIKCIYELQDNSIAQDAMAKLDVEHLKLTYCNIGPVECTALAYV

Homo\_sapien MPGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPTECAALAFV

Macaca\_mulatta MPGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPAECAALAFV

Mus\_musculus MPGFIWLIRSLYEMQEEQLAQEAVRRLDIGHLKLTFCRVGPAECAALAFV

Pan\_troglodytes MPGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPAECAALAFV

Rattus\_norvegicus MPGFIWLIRSLYEMQEVQLAREAVRRLDIGHLKLTFCRVGPAECAALAFV

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Bos\_taurus LRHLRRPVALQLDHNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKL

Canis\_lupus\_familiaris LRHLRRPVALQLDHNSVGDIGVEQLLPCLSVCKALYLRDNNISDRGICKL

Danio\_rerio LKNLRKPVGLQLDNNSVGDVGVEQLLPCLPMCHSLYLRNNNISDEGIRKL

Homo\_sapien LQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKL

Macaca\_mulatta LRHLRQPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKL

Mus\_musculus LQHLQRPVALQLDYNSVGDVGVEQLRPCLGVCTALYLRDNNISDRGARTL

Pan\_troglodytes LQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKL

Rattus\_norvegicus LQHLQRPVALQLDHNSVGDVGVEQLLPCLGVCTALYLRDNNISDRGARTL

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Bos\_taurus VEHALRCEQLQKLALFNNKLTDGCAHSMARLLACKQNFLALRLGNNHITA

Canis\_lupus\_familiaris IEHALHCEQLQKLALFNNKLTDGCAHSMARLLACKQNFLALRLGNNRITA

Danio\_rerio LEKGIECENFQKIALFNNKLTDTCTQYFSCLLKSKQNFLALRLGNNNITS

Homo\_sapien IECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITA

Macaca\_mulatta IECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNHITA

Mus\_musculus VECALRCEQLQKLALFNNKLTDACACSMAKLLAHKQNFLSLRVGNNHITA

Pan\_troglodytes IECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITA

Rattus\_norvegicus VECALRCEQLQKLALFNNKLTDGCASSVAKLLAHKQNFLSLRVGNNHITA

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Bos\_taurus AGAEVLAQGLRTNNSLQFLGFWGNQVGDEGAQALAAALGDHQSLRWLSLV

Canis\_lupus\_familiaris AGAQALAEGLRANTSLQFLGFWGNKVGDEGAQALAEALGDHQSLRWLSLV

Danio\_rerio VGAEQLAEGLSYNQSLQFLGLWGNKVGDRGAEVLADALTNSKTLIWLSLV

Homo\_sapien AGAQVLAEGLRGNTSLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLV

Macaca\_mulatta AGARVLAEGLRGNASLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLV

Mus\_musculus AGAEVLAQGLKSNTSLKFLGFWGNSVGDKGTQALAEVVADHQNLKWLSLV

Pan\_troglodytes AGAQVLAQGLRGNTSLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLV

Rattus\_norvegicus AGAEVLAQGLKSNTSLQFLGFWGNSVGDKGSQALAEVVADHQRLKWLSLV

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Bos\_taurus GNNIGSVGAQALALMLEKNMALEELCLEENHVQDEGVCFLAKGLARNSSL

Canis\_lupus\_familiaris GNDIGSVGARALALMLEKNVALEELCLEENHLQDEGVCSLAKGLERNSSL

Danio\_rerio DNGVGSAGACALAKFIRQNKSLEELWLNKNSICKEGVDCLIEALKM----

Homo\_sapien GNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSLAEGLKKNSSL

Macaca\_mulatta GNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCCLAEGLKRNSSL

Mus\_musculus GNNIGSMGAEALALMLEKNKSLEELCLEENHICDEGVYSLAEGLKRNSTL

Pan\_troglodytes GNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSLAEGLKKNSSL

Rattus\_norvegicus GNNIGSVGAHALALMLEKNKSLEE--------------------------

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Bos\_taurus KVLKLSNNHISSLGAEALLRALEKNDTILEVWLRGNTFSPEEIEKLSHQD

Canis\_lupus\_familiaris KVLKLSNNCITYLGAEGLLQALEKNDTILEVWLRGNTFSLEEMERLSQKD

Danio\_rerio ------------------------NTSVKKVWLRGNNLSPQEEEQLSQQE

Homo\_sapien KILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRD

Macaca\_mulatta KILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEADKLGCRD

Mus\_musculus KFLKLSNNGITYRGAEALLQALSRNSAILEVWLRGNTFSLEEIQTLSSRD

Pan\_troglodytes KILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRD

Rattus\_norvegicus --------------------------------------------------

Bos\_taurus TRLLL

Canis\_lupus\_familiaris TRLLL

Danio\_rerio CRLTF

Homo\_sapien TRLLL

Macaca\_mulatta TRLLL

Mus\_musculus ARLLL

Pan\_troglodytes TRLLL

Rattus\_norvegicus ----L