Homo\_sapien ------------------------------MGEEGGSASHDEEERASVLL 20

Pan\_troglodytes ------------------------------MGEEGGSVSHDEEERASVLL 20

Macaca\_mulatta --------------------------MGFDGGRGGGPVSPDEEERASVLL 24

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

Canis\_lupus\_familiaris MVTRTRLCQHSGPSAYRSTCHTEGARQLCNARTWGGADLLLTPLHCPCLL 50

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

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

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

Homo\_sapien GHSPG----------------------CEMCSQEAFQAQRSQLVELLVSG 48

Pan\_troglodytes GHSLG----------------------CEMCSQEAFQAQRSQLVELLVSG 48

Macaca\_mulatta GHFLG----------------------CEMCSQEAFQAQRSQLVELLVSG 52

Bos\_taurus -----------------------------MCAQDAFQTQRSQLVELLVSG 21

Canis\_lupus\_familiaris SLSLGTALIYLPGSSLGPALTTLSSPGYEMCTQEAFQTQRSQLVGLLVSG 100

Rattus\_norvegicus -----------------------------MCSQEDFQAQRSQLVALLVSG 21

Mus\_musculus -----------------------------MCSQEEFQAQRSQLVALLISG 21

Danio\_rerio -----------------------------MNAQQLILKQRAELLAVLCGG 21

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Homo\_sapien -SLEGFESVLDWLLSWEVLSWEDYEGFHLLGQPLSHLARRLLDTVWNKGT 97

Pan\_troglodytes -SLEGFESVLDWLLSWEVLSWEDYEGFHLLGQPLSHLARRLLDTVWNKGT 97

Macaca\_mulatta -SLEGFESVLDWLLSWEVLSWEDYEGIHLLGQPLSHLARRLLDTVWNKGT 101

Bos\_taurus -SLEGFESILDRLLSREVLSWEDYEGLSLVGQPISHLARRLLDTIWNKGT 70

Canis\_lupus\_familiaris -SLEGFESILDWLLSWEVLSWEDYEGLSLLGQPLSYLARRLLDTVWNKGT 149

Rattus\_norvegicus -SLEGFESILDWLLSWDVLSREDYEGLSLPGQPLSHSARRLLDTVCNKGV 70

Mus\_musculus -SLEGFESILDWLLSWDVLSREDYEGLSLPGQPLSHSARRLLDTVWNKGV 70

Danio\_rerio GSDEPLESVLDLLLAQEVLVWEDYLRVRVAEKPLCANIRQLLDLVYDKGE 71

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Homo\_sapien WACQKLIAAAQEAQADSQSPKLHG------CWDPHSLHPARDLQSHRPAI 141

Pan\_troglodytes WACQKLIAAAQEAQADSQSPKLHG------CWDPHSLHPARDLQSHRPAI 141

Macaca\_mulatta WACQKLVAAAQEAQADSQSPKLHG------CWDPHSLHPAQDLQSHRPAI 145

Bos\_taurus WGCEQLTAAVREAQADSQPPELPS------SWDPHSPHPARDLQSHRPAI 114

Canis\_lupus\_familiaris WGCEQLVAAVREAQTDCQALELSS------CWDPHSPHPARDLQSHRPAI 193

Rattus\_norvegicus WGCQKLFEAVQEAQANSHTFELQG------CWDVHSLHPTRDLQSHRPAI 114

Mus\_musculus WGCQKLLEAVQEAQANSHTFELYG------SWDTHSLHPTRDLQSHRPAI 114

Danio\_rerio DACSYFLAAIEQELAEEQKAGLCFGNGCVMVGKDRPATATSTLLADRPML 121

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Homo\_sapien VRRLHSHVENMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK 191

Pan\_troglodytes VRRLHNHVENMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK 191

Macaca\_mulatta VRRLHSHVEGVLDLARERGFVSQYECDEIRLPIFTPSQRARRLLDLATVK 195

Bos\_taurus VRRLYGHVEGVLDLTQQRGFISQYETDEIRRPIFTSSQRARRLLDLATVK 164

Canis\_lupus\_familiaris VRRLYSHVEDVLNLAWEQGFISQYERDEIRLPIFTSSQRARRLLDLATVK 243

Rattus\_norvegicus VRRLCSHVEAILELARDEGFLSQYECEEIRLPIFTSSQRARRLLDLAAVK 164

Mus\_musculus VRRLYNHVEAMLELAREGGFLSQYECEEIRLPIFTSSQRARRLLDLAAVK 164

Danio\_rerio VRRLRDNIDGALNILLTTGCFSIKDCDSVQLPVYTPSQQVRRLLDQVKFK 171

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Homo\_sapien ANGLAAFLLQHVQELPVPLALPLE-----AATCKKYMAKLRTTVSAQSRF 236

Pan\_troglodytes ANGLAAFLLQHVQELPVPLALPLE-----AATCKKYMAKLRTTVSAQSRF 236

Macaca\_mulatta ANGLAAFLLQHVQELPVPLALPLE-----AATCRKYMAKLRTTVSAQARF 240

Bos\_taurus ANGLAAFLLQCIQELPVPLALPFE-----DAACKKYVSKLRTVISAQSRF 209

Canis\_lupus\_familiaris ANGLAAFLLRHVQELPVPLAMPSE-----DAACKKYMSKLRTTISSQSRF 288

Rattus\_norvegicus ANGLAAFLLQHVRKLPASLSLPYE-----AAECQKFTAKLRTMVSAQSRF 209

Mus\_musculus ANGLAAFLLQHVRELPAPLPLPYE-----AAECQKFISKLRTMVLTQSRF 209

Danio\_rerio GETAAKTLLEYLEQPEPTSPISAEKENTPSADCLVYQKKLRSSVASQSLF 221

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Homo\_sapien LSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPG 286

Pan\_troglodytes LSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPG 286

Macaca\_mulatta LSTYDGAETLCLEDIYTENGLEVWADVGMAGPPQKSPATLGLEELFSTRS 290

Bos\_taurus LSTYDGAENLCLEEVYTENVLEIQMEVGMAGPSQQSPTTLGLEELFSTRD 259

Canis\_lupus\_familiaris LSTYDGAENLCLEEIYTENVLEIRTEMGLARSPQKSPATLSLEELFSTCG 338

Rattus\_norvegicus LSTYDGSENLCLEDIYTENTLELRTEVGTAGALQKSPATLGLEELFGTHG 259

Mus\_musculus LSTYDGSENLCLEDIYTENILELQTEVGTAGALQKSPAILGLEDLFDTHG 259

Danio\_rerio LSTYGGTGRFSLDDIYTDGHLEVMNSSGET-------TTLGLEDVVGPMG 264

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Homo\_sapien HLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGQDFQEFLFVFPFSCRQL 336

Pan\_troglodytes HLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGRDFQEFLFVFPFSCRQL 336

Macaca\_mulatta HLNDDADTVLVVGEAGSGKSTLLQRLHLLWAAGRDFQEFLFVFPFSCRQL 340

Bos\_taurus HFNKEADTVLVVGEAGSGKSTLLQQLHLLWASGRAFQEFLFVFPFSCRQL 309

Canis\_lupus\_familiaris HLNEDADTVLVVGEAGSGKSTLLQRMHLLWASGRDFQEFLFVFPFSCRQL 388

Rattus\_norvegicus HLNKDADTILVVGEAGSGKSTLLQRLHLLWASGQNFREFLFIFPFSCRQL 309

Mus\_musculus HLNRDADTILVVGEAGSGKSTLLQRLHLLWATGRSFQEFLFIFPFSCRQL 309

Danio\_rerio TLNEDADTVLVSGEAGSGKSTLVQRLHLLWAREALLLNTFLLFPFSCRKL 314

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Homo\_sapien QCMAKPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVLLTFDGFDEFKF 386

Pan\_troglodytes QCMAKPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVLLTFDGFDEFKF 386

Macaca\_mulatta QCVAKPLSVRTLLFEHCCWPDVDQEDIFQFLLDHPDRVLLTFDGFDEFKF 390

Bos\_taurus QCLVKPLSMRTLLFEHCCWPDLGPQDVFQVLLDHPERILLTFDGFDEFRF 359

Canis\_lupus\_familiaris QCVAKPLSVQMLLFEHCCWPDFGQQEVFQFLLDHPNRVLLTFDGFDEFRF 438

Rattus\_norvegicus QCMTKPLSLRTLLFEHCCWPDVGQDDVFQFLLDHPDRVLLTFDGLDEFKF 359

Mus\_musculus QCVAKPLSLRTLLFEHCCWPDVAQDDVFQFLLDHPDRVLLTFDGLDEFKF 359

Danio\_rerio NAEHRELSLKELLFLHCCWPDRNQDEVFQFILDHPHLVLFTFDGLDEFKL 364

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Homo\_sapien RFTDRERHCSPTDPTSVQTLLFNLLQGNLLKNARKVVTSRPAAVSAFLRK 436

Pan\_troglodytes RFTDRERHCSPTDPTSVQTLLFNLLQGNLLKNARKVVTSRPAAVSAFLRK 436

Macaca\_mulatta RFTDHERHCSPTDPTSVQTLLFNLLQGNLLKNARKVMTSRPAAVSAFLRK 440

Bos\_taurus RFTDQERHCCPTAPTSVQSLLFNLLQGNLLKNARKVLTSRPSAVSASLRK 409

Canis\_lupus\_familiaris RFSDHERHCSPTDPTSVQNLLFNLLQGNLLKNARKVLTSRPDAVSALLRK 488

Rattus\_norvegicus RFTDRERHCSPLDPTSVQTLLFNLLQGNLLKNACKVLTSRPDAVSALLRK 409

Mus\_musculus RFTDRERHCSPIDPTSVQTLLFNLLQGNLLKNACKVLTSRPDAVSALLRK 409

Danio\_rerio GFTDEERHCCPTKQVPIPVLLFNLLQGTLMKGVMKVVTSRPHAVGPSLKR 414

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Homo\_sapien YIRTEFNLKGFSEQGIELYLRKRHHEPGVADRLIRLLQETSALHGLCHLP 486

Pan\_troglodytes YIRTEFNLKGFSEQGIELYLRKRHREPGVADRLIRLLQATSALHGLCHLP 486

Macaca\_mulatta YIRTEFNLKGFSEQGIELYLRKRHREPGVADRLIRLLQGTSALHGLCHLP 490

Bos\_taurus HVRTELSLKGFSEEGIELYLRKRHREPGVADRLLCLLRATSALHGLCHLP 459

Canis\_lupus\_familiaris YLRLEINLKGFSEEGIELYLRKCHREPGVADRLIRLLKTTSALHGLCHLP 538

Rattus\_norvegicus FVRTECHLKGFSEEGIKLYLRKHHREPGVADRLIHLIQATSALHGLCHLP 459

Mus\_musculus FVRTELQLKGFSEEGIQLYLRKHHREPGVADRLIQLIQATSALHGLCHLP 459

Danio\_rerio YLRKEVLLKGFSPGGIDCFVKKHYSDPAMATRVIESVQGNTALLGLCHIP 464

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Homo\_sapien VFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHATPPDSASQGLG 536

Pan\_troglodytes VFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHATPPDSASQGLG 536

Macaca\_mulatta VFSWMVSKCHQELLLQEGVSPKTTTDMYLLILQHFLLHATSPDSASQGLG 540

Bos\_taurus VFSWMVSKCHEELLLQGRGSPKTTTDMYLLILRHFLLHASPLPLATHGLG 509

Canis\_lupus\_familiaris VVSWMVSKCHQELLLHGGGSPKTSTDMYLLILQHFLLHASPPDSVPHSLG 588

Rattus\_norvegicus VFSWMVSRCHRELLLQNRGFPTTSTDMYLLILQHFLLHASPPDSFPLGLG 509

Mus\_musculus VFSWMVSRCHRELLLQNRGFPTTSTDMYLLILQHFLLHASPPDSSPLGLG 509

Danio\_rerio VFCWIVIKCYQELLAGQDGIPQTITDVYLLVLQHFFQRKSSQPQS--GLG 512

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Homo\_sapien PSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFLV 586

Pan\_troglodytes PSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFLV 586

Macaca\_mulatta PSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFLV 590

Bos\_taurus PSLIQGRLPTLLHLGRLALWGLGTCCYVFSAKQLQAAHVDSEDLSLGFLV 559

Canis\_lupus\_familiaris SHLLRGRLPTLLHLGWLALWGLGMCCYVFSAKQLQAAHIDDEDISLGFLV 638

Rattus\_norvegicus PGLLQSRLSTLLHLGHLALQGLAMSCYVFSAQQLQAAQVDSEDISLGFLV 559

Mus\_musculus PGLLQSRLSTLLHLGHLALRGLAMSCYVFSAQQLQAAQVDSDDISLGFLV 559

Danio\_rerio KAWLAEHLDTVLKLGELALEGLQTSCYVFSGYELQRNRITEQDVGIGFLI 562

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Homo\_sapien RAKGVVPGSTAPLEFLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPG 636

Pan\_troglodytes RAKGVVPGSTAPLEFLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPG 636

Macaca\_mulatta RAKGVMPGSTAPLEFLHITFQCFFAAFYLAFSADVSPALLRHLFNCGRPG 640

Bos\_taurus LAKRVVPGSTAPLEFLHITFQCFFAAFYLALSADTPPSSLRHLFQDHRPE 609

Canis\_lupus\_familiaris HAKTVGPGSTTPLEFLHITFQCFFAALYLVLSTDVSPSLLRQLFICHGPR 688

Rattus\_norvegicus RAQSVVPGSKAPLEFLHITFQCFFAAFYLAVSADTSAASLKHLFSCGRPG 609

Mus\_musculus RAQSSVPGSKAPLEFLHITFQCFFAAFYLAVSADTSVASLKHLFSCGRLG 609

Danio\_rerio YCSDISVNDCKRYEFLHITLQCFFAALYVILNRNNDRSAISRLFQPRNRQ 612

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Homo\_sapien NSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITAAFLAGLLSREH 686

Pan\_troglodytes NSPMARLLPTMCIQGSEGKDSSVAALLQKAEPHNLQITAAFLAGLLSREH 686

Macaca\_mulatta NSPMARLLPTLCIQGSEGKDGSVAALLQKAEPHNLQITAAFLAGLLSREH 690

Bos\_taurus SSPLARVLPKLFLRGSRCREGSVAALLQGAEPHNLQITGAFLAGLLSQEH 659

Canis\_lupus\_familiaris SSLLARLLPTTCVPRSERKEGSLAALLQEAEPHNLQITAAFLAGLLSREH 738

Rattus\_norvegicus NSLLLRLLPNLCIQGSRVK-GGQAALLQKAEPHNLQITAAFLAGLLSQQH 658

Mus\_musculus SSLLGRLLPNLCIQGSRVKKGSEAALLQKAEPHNLQITAAFLAGLLSQQH 659

Danio\_rerio VSGLSQSCLGQCMD-------HSVEESHEAETANLQITAQFVSGLLSQRH 655

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Homo\_sapien WGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAM 736

Pan\_troglodytes WGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAM 736

Macaca\_mulatta WDLLAECQASEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSMHAM 740

Bos\_taurus RSLLAECQASETALLRRWDCVRRCLTRSLREHFRSIPPALPGEAKSMHAL 709

Canis\_lupus\_familiaris RGLLAECQANEEALLRLQGRAQGCLSRSLHQHFRSIPPAVPGEAKSMHAM 788

Rattus\_norvegicus RDLLAACQVPERVLLQRQARARSCLAHSLREHFHSIPPAVPGETKSMHAM 708

Mus\_musculus RDLLAACQVSERVLLQRQARARSCLAHSLREHFHSIPPAVPGETKSMHAM 709

Danio\_rerio NNLLLECCP-AAVRERNVKQVVKSLSKRMQRHFKSIPRPVEGEKKSMHAM 704

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Homo\_sapien PGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPTECAALAFVL 786

Pan\_troglodytes PGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPAECAALAFVL 786

Macaca\_mulatta PGFIWLIRSLYEMQEERLARKAARGLNVGHLKLTFCSVGPAECAALAFVL 790

Bos\_taurus PGFLWLIRSLYEMQEERLAREAVCRLNVGHLKLTFCGVGPAECAALAFVL 759

Canis\_lupus\_familiaris PGFLWLIRSLYEMQEERLAREAVRGLTVGHLKLTFCGVGPPECAALAFVL 838

Rattus\_norvegicus PGFIWLIRSLYEMQEVQLAREAVRRLDIGHLKLTFCRVGPAECAALAFVL 758

Mus\_musculus PGFIWLIRSLYEMQEEQLAQEAVRRLDIGHLKLTFCRVGPAECAALAFVL 759

Danio\_rerio PSFVWLIKCIYELQDNSIAQDAMAKLDVEHLKLTYCNIGPVECTALAYVL 754

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Homo\_sapien QHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKLI 836

Pan\_troglodytes QHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKLI 836

Macaca\_mulatta RHLRQPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKLI 840

Bos\_taurus RHLRRPVALQLDHNSVGDIGVEQLLPCLGVCKALYLRDNNISDRGICKLV 809

Canis\_lupus\_familiaris RHLRRPVALQLDHNSVGDIGVEQLLPCLSVCKALYLRDNNISDRGICKLI 888

Rattus\_norvegicus QHLQRPVALQLDHNSVGDVGVEQLLPCLGVCTALYLRDNNISDRGARTLV 808

Mus\_musculus QHLQRPVALQLDYNSVGDVGVEQLRPCLGVCTALYLRDNNISDRGARTLV 809

Danio\_rerio KNLRKPVGLQLDNNSVGDVGVEQLLPCLPMCHSLYLRNNNISDEGIRKLL 804

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Homo\_sapien ECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITAA 886

Pan\_troglodytes ECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITAA 886

Macaca\_mulatta ECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNHITAA 890

Bos\_taurus EHALRCEQLQKLALFNNKLTDGCAHSMARLLACKQNFLALRLGNNHITAA 859

Canis\_lupus\_familiaris EHALHCEQLQKLALFNNKLTDGCAHSMARLLACKQNFLALRLGNNRITAA 938

Rattus\_norvegicus ECALRCEQLQKLALFNNKLTDGCASSVAKLLAHKQNFLSLRVGNNHITAA 858

Mus\_musculus ECALRCEQLQKLALFNNKLTDACACSMAKLLAHKQNFLSLRVGNNHITAA 859

Danio\_rerio EKGIECENFQKIALFNNKLTDTCTQYFSCLLKSKQNFLALRLGNNNITSV 854

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Homo\_sapien GAQVLAEGLRGNTSLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVG 936

Pan\_troglodytes GAQVLAQGLRGNTSLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVG 936

Macaca\_mulatta GARVLAEGLRGNASLQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVG 940

Bos\_taurus GAEVLAQGLRTNNSLQFLGFWGNQVGDEGAQALAAALGDHQSLRWLSLVG 909

Canis\_lupus\_familiaris GAQALAEGLRANTSLQFLGFWGNKVGDEGAQALAEALGDHQSLRWLSLVG 988

Rattus\_norvegicus GAEVLAQGLKSNTSLQFLGFWGNSVGDKGSQALAEVVADHQRLKWLSLVG 908

Mus\_musculus GAEVLAQGLKSNTSLKFLGFWGNSVGDKGTQALAEVVADHQNLKWLSLVG 909

Danio\_rerio GAEQLAEGLSYNQSLQFLGLWGNKVGDRGAEVLADALTNSKTLIWLSLVD 904

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Homo\_sapien NNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSLAEGLKKNSSLK 986

Pan\_troglodytes NNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSLAEGLKKNSSLK 986

Macaca\_mulatta NNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCCLAEGLKRNSSLK 990

Bos\_taurus NNIGSVGAQALALMLEKNMALEELCLEENHVQDEGVCFLAKGLARNSSLK 959

Canis\_lupus\_familiaris NDIGSVGARALALMLEKNVALEELCLEENHLQDEGVCSLAKGLERNSSLK 1038

Rattus\_norvegicus NNIGSVGAHALALMLEKNKSLEEL-------------------------- 932

Mus\_musculus NNIGSMGAEALALMLEKNKSLEELCLEENHICDEGVYSLAEGLKRNSTLK 959

Danio\_rerio NGVGSAGACALAKFIRQNKSLEELWLNKNSICKEGVDCLIEALKMNTSVK 954

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Homo\_sapien ILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDT 1036

Pan\_troglodytes ILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDT 1036

Macaca\_mulatta ILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEADKLGCRDT 1040

Bos\_taurus VLKLSNNHISSLGAEALLRALEKNDTILEVWLRGNTFSPEEIEKLSHQDT 1009

Canis\_lupus\_familiaris VLKLSNNCITYLGAEGLLQALEKNDTILEVWLRGNTFSLEEMERLSQKDT 1088

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

Mus\_musculus FLKLSNNGITYRGAEALLQALSRNSAILEVWLRGNTFSLEEIQTLSSRDA 1009

Danio\_rerio ----------------------------KVWLRGNNLSPQEEEQLSQQEC 976

Homo\_sapien RLLL 1040

Pan\_troglodytes RLLL 1040

Macaca\_mulatta RLLL 1044

Bos\_taurus RLLL 1013

Canis\_lupus\_familiaris RLLL 1092

Rattus\_norvegicus ----

Mus\_musculus RLLL 1013

Danio\_rerio RLTF 980