

Numbering is for the alignment, not for FIX sequence

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          10      20      30      40      50      60      70      80      90      100
FIX_Human_P  MQRVNMIMAE SPGLITICLLGYLLSAECTVFLDHENANKILNRPKRYNSGKLEEFVQGNLERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Gorilla_P MQRVNMIMAE SPGLITICLLGYLLSAECTVFLDHENANKILNRPKRYNSGKLEEFVQGNLERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Dog_P     MQRVNMIMAE SPGLITICLLGYLLSAECTVFLDHENANKILNRPKRYNSGKLEEFVQGNLERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Cow_P     MWCLNMIMAE SPGLVTICLLGYLLSAECTVFLDRENATKILHRPKRYNSGKLEEFVQGNLERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Mouse_P   MKHLNVTMAE SPALITIFLLGYLLSTECVFLDRENATKILTRPKRYNSGKLEEFVQGNLERECIEERCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Rat_P     M-----ADAPGLIPIFLLGYLLSTECVFLDRENATKILTRPKRYNSGKLEEFVQGNLERECIEERCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Pig_P     MRRLNVIMAE SLGLVSIICLLGYLLSAECTVFLDRENATKILHRPKRYNSGKLEEFVQGNLERECIEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Opossum_P M-----TGLLFLLIICSGYLFGAEGAVFLDHENATKILNRPKRYNSGKLEEFVQGNLERECMEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Chicken_P M-----AKIPLILSFCLEAFLGAESTVFIENKEASTVLSRTRRGNNSRLEELIPGNLERECIEEKCSFEEAREVFENTERTEFEWKQYVDGDQCESN
FIX_Zebrafish_P M-----ASFILVLPFLL--LQAALGSVFLDGEKADSVLWRRRRRANTWLFEEFLPGNVERECIEEKCVLEEARAFENDEKTFEFWASVYVDGNQCKPS

          110     120     130     140     150     160     170     180     190     200
FIX_Human_P  PCLNGGSKDDINSYECWCPFGFEGKNCELDVT--CNIKNGRCEQFCCKNSADNKVVCSCTEGYRLAENQKSCEPAVFPFCGRVSVSQTST----KLTRAE
FIX_Gorilla_P PCLNGGSKDDINSYECWCPFGFEGKNCELDVT--CNIKNGRCEQFCCKNSADNKVVCSCTEGYRLAENQKSCEPAVFPFCGRVSVSQTST----KLTRAE
FIX_Dog_P     PCLNDGVCKDDINSYECWCRAFEGKNCELDVT--CNIKNGRCKQFCCKLGPDKVVCSCCTTGQYLAEDQKSCEPAVFPFCGRVSVPHISM----TRTRAE
FIX_Cow_P     PCLNGGMCKDDINSYECWCQAGFEGKNCELDVT--CSIKNGRCKQFCCKRDTDNKVVCSCDTGYRLAEDQKSCEPAVFPFCGRVSVSHISK----KLTRAE
FIX_Mouse_P   PCLNGGICKDDISSYECWCQVGFEGKNCELDVT--CNIKNGRCKQFCCKNSPDNKVICSCTEGYQLAEDQKSCEPTVFPFCGRASISYSSK----KITRAE
FIX_Rat_P     PCLNGGICKDDINSYECWCQAGFEGKNCELDVT--CSIKNGRCKQFCCKNSPDNKVICSCTEGYQLAEDQKSCEPAVFPFCGRVSVAYNSK----KITRAE
FIX_Pig_P     PCLNGGLCKDDINSYECWCQVGFEGKNCELDVT--CNIKNGRCKQFCCKTGADSKVLCSCCTTGQYRLAPDQKSCEPAVFPFCGRVSVSHSPT----TLTRAE
FIX_Opossum_P PCLNGGVCKDGTNAYECWCRGGYEGKNCIDAS--CSIKNGGCKQFCCKMKNLNAVCHCTTGQYRLAEDQKSCEPEVPPYPCGRVSVPLNLK----KFTRAE
FIX_Chicken_P PCKNGAVCKDGVSSYECMCPGYPGGRRNCEIDST--CATKNGGCEHFPCRHDTPQKAVCSASGYKLHEDGKSKPAVPYPCGRITAPEMRG----KVTRTE
FIX_Zebrafish_P PCQNQGTCEDQMGTYSCNCLPGFVKGKNCIIVTAKKCDVDNNGGCEHFCVLLSHKTCQCCAYGYKLSLGLTCEPIVKFPFCGKTSKPAVKTYGTASVTNTT

          210     220     230     240     250     260     270     280     290     300
FIX_Human_P  TVFPDVDYVNSTEA-----ETILDN-----ITQSTQS-----FNDFTFRVVGGEDAKPGQFPWQV-VLNGKVDA-FCGGSII
FIX_Gorilla_P TVFPDVDYVNSTEA-----ETILDN-----ITQSTQS-----FNDFTFRVVGGEDAKPGQFPWQV-VLNGKVDA-FCGGSII
FIX_Dog_P     TLFNSMDYENSTEV-----EKILDN-----VTQP-----LNDFTFRVVGGEDAKPGQFPWQV-LLNGKVDA-FCGGSII
FIX_Cow_P     TIFSNTNYENSSEA-----EIIWDN-----VTQSNQS-----FDEFSTRVVGGEDAERGQFPWQV-LLHGEIAA-FCGGSII
FIX_Mouse_P   TVFSNMDYENSTEAVFIQD-----DITDGAAILNN-----VTESSES-----LNDFTFRVVGGENAKPGQIPWQV-IILNGEIEA-FCGGAI
FIX_Rat_P     TVFSNTDYGNSTEL--ILD-----DITNSTILDN-----LTENSEP-----LNDFTFRVVGGENAKPGQIPWQV-IILNGEIEA-FCGGAI
FIX_Pig_P     IIFSNTDYENSTEV-----EPILDS-----LTESNQS-----SDDFIRIVGGENAKPGQFPWQV-LYTDETNNS-FKDLSI
FIX_Opossum_P SIFVNMDNVNSTEE-----EQVPNE-----ATQITPI-----HKELSRVVGGEDAKKGEIPWQV-IILNGKIKG-FCGGSII
FIX_Chicken_P NTIERWNITAHDED-DAHDE-----ALDIT-EPPPPP-----TTSAAPAKIVPITKNDTRVVGGYDSVKGQLPWQVHLVDSRGLG-FCGGSII
FIX_Zebrafish_P AQFSNMTVKSTSSI-PKPDNLTNPTNSKDIK-EKLAPPRAKLPKWAFFEEYLTSPAPT----VSGPKSRIIGNSALPGEIPWQVALVSRSTQVFCGGSII
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          310      320      330      340      350      360      370      380      390      400
FIX_Human_P  VNEKWIIVTAAHCV--ETGVKITVVAGEHNIETEHETEQKRN VIRIIPHHNYNAAINKYNHDIALLELDEPLVLSYVTPIC IADKEYTNI FLKFGS-GYV
FIX_Gorilla_P VNEKWIIVTAAHCV--ETGVKITVVAGEHNIETEHETEQKRN VIRIIPHHNYNAAINKYNHDIALLELDEPLVLSYVTPIC IADKEYTNI FLKFGS-GYV
FIX_Dog_P     INEKWVVTAAHCI--EPDVKITIVAGEHNTEKREHTEQKRN VIRITILHHSYNATINKYNHDIALLELDEPLTLNSYVTPIC IADREYSNIFL KFGS-GYV
FIX_Cow_P     VNEKWVVTAAHCI--KPGVKITVVAGEHNTEKPEPTEQKRN VIRAIRPYHSYNASINKYSHDIALLELDEPLELNSYVTPIC IADRDYTNIFL KFGY-GYV
FIX_Mouse_P   INEKWIIVTAAHCL--KPGDKIEVVAGEYNIIDKKEDETEQRRNVIRTI PHHQYNATINKYSHDIALLELDKPLIILNSYVTPIC VANREYTNIFL KFGS-GYV
FIX_Rat_P     INEKWIIVTAAHCL--KPGDKIEVVAGEHNIIDKKEDETEQRRNVIRTI PHHQYNATINKYSHDIALLELDKPLIILNSYVTPIC VANKEYTNIFL KFGS-GYV
FIX_Pig_P     IKQSWVSSGWHCQ--QPGIAIVYLIGEYNTETEPETEQRRNVIRAI PHHSYNATVNKYSHDIALLELDEPLTLNSYVTPIC IADKEYTNI FLKFGS-GYV
FIX_Opossum_P INEKWIIVTAAHCI--EPGDEITVVAGEHNIETEETEGTEQTRRVIRAI PHHTYNATINKYSNDIALLELDEPLQLNEYVTPIC IADKEYTNI FLKFGK-GTV
FIX_Chicken_P INEKWVVTAAHCL--EPGDNVTA VAGEYNTKEDDHTTEQRRQVVKILPYPTYNRTRNKHNDIALLELDQPLTFNSYVTPIC IGSRDFTNNLLSNGP-GTV
FIX_Zebrafish_P LNPLWVITA AHCLLGNHNGSFYIRVGEHDVSKIEGTEQNV DVIKLISHPRYNSKVS LFNHDIALLRLRSPIRLTPTVRPI CLGPMVFSNTLLQSGT LATV

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          410      420      430      440      450      460      470      480      490      500
FIX_Human_P  SGWGRV FHKGRSALVLYLRVPLVDRATCLRSTKFTIYNNMFCAGFHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Gorilla_P SGWGRV FHKGRSALVLYLRVPLVDRATCLRSTKFTIYNNMFCAGFHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Dog_P     SGWGRVFNKGRSASILQYLK VPLVDRATCLRSTKFTIYNNMFCAGFHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Cow_P     SGWGKVFNKRGRSASILQYLK VPLVDRATCLRSTKFSIYSHMFCAGYHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Mouse_P   SGWGKVFNKRGRQASILQYLK VPLVDRATCLRSTFTIYNNMFCAGYREGGKSDCEGDSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Rat_P     SGWGKVFNKRGRQASILQYLK VPLVDRATCLRSTKFSIYNNMFCAGYREGGKSDCEGDSGGPHVTEVEGTSFLTGIISWGEECAMK GKYG IYTKVSRYVNW
FIX_Pig_P     SGWGRVFNKRGRSATILQYLK VPLVDRATCLRSTKFTIYNNMFCAGYHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAVK GKYG IYTKVSRYVNW
FIX_Opossum_P SGWGRVFNKRGRSATILQYLK VPLVDRATCLRSTKFTIYNNMFCAGYHEGGKSDSCQDSSGGPHVTEVEGTSFLTGIISWGEECAVK GKYG IYTKVSRYVNW
FIX_Chicken_P SGWGSMLYRGRSAILVQLVLPV FVDRVTKLSTSTTILQSMFCAGYTAGGKDTCCGDSGGPYTNSIGETWFLTGVT SWGEECAKPKYG IYTNVAKYMKW
FIX_Zebrafish_P SGWGRVRFQGRSAATLQKIELPYVDRTVCKE SSSDPITHFMFCAGHSDSPKDACQDSSGGPHVMRYHNTWFLTGII SWGEECAKPKYG VYTQVGNYYRW

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          510
FIX_Human_P  IKEKTKLT-----
FIX_Gorilla_P IKEKTKLT-----
FIX_Dog_P     IKEKTKLT-----
FIX_Cow_P     IKEKTKLT-----
FIX_Mouse_P   IKEKTKLT-----
FIX_Rat_P     IKEKTKLT-----
FIX_Pig_P     IKEKTKLT-----
FIX_Opossum_P IKEKTKRT-----
FIX_Chicken_P IRETTRLT-----
FIX_Zebrafish_P IQHTMGVTTGALLTNVDQ

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