

Numbering is for the alignment, not for FX sequence

```

          10      20      30      40      50      60      70      80      90     100
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
FX_Human   MGRPLHLVLLSASLAGLLLLGESLFI RREQANNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREVFEDSDKTNEFWNKYKDGDCETSPCQNGK
FX_Gorilla MGRPLHLVLLSASLAGLLLLGESLFI RREQANNILARVTRANSFLEEMKKGHLERECMEETCSYEEAREVFEDSDKTNEFWNKYKDGDCETSPCQNGK
FX_Bovine  MAGLLHLVLLSTALGGLLRPAGSVFLPRDQAHRVLQRARRANSFLEEVKQGNLERECLEEEACSL EEAREVFEDA EQTDEFWWSKYKDGDC EGHPCLNQGH
FX_Dog     MAGPLCLVLLSASLACLPLPGGSVFLSPERASSVLGRVRRANSFLEEMKKGHLERECMEETCSFEEAREVFEDTAKTMEFWNKYKDGDC ESSPCQNGQ
FX_Pig     MVGLPSLVLLSTSLAGLLLP GGSVFLPRDRAHSVLERARRANSFWEEMKKGHLERECLEETCSYEEAREVFEDQOKTDEFWWSKYKDGDC ESSPCQNGK
FX_Mouse   MGSPVQLSLLCVVLASLLLPKGVFINRERANNVLARTRRANSFFEEFKKGNLERECMEEICSYEEAREVFEDQOKTDEFWWSKYKDGDC ESSPCQNGA
FX_Rat     MESPVRLSLLYVVLASLLLPGRSVFINRERANNVLQRIRRANSFFEEIKKGNLERECVEEICSFEEAREVFEDNEKTTEFWNKYEDGDQCESSPCQNGE
FX_Opossum MASWLYLLLLGTSVASLLNFGETVFLNQEKANNVLKRTRRANSLEEVKKGHLERECIEETCSYEEAREVFENQEKTI EFWNKYVDGDQCESQPCQNHGD
FX_Chicken MAGRLLLLLLCAALPDELRAEGGVFIKKEADKFLERTKRANSFLEEMKQGNIERECNEERCSKEEAREAFEDNEKTEEFWNIYVDGDQCSSNPCHYGGQ
FX_Zebrafish M-SWV--FWNFISL FVTHSVCAEVFLNTRDANQVLI RQRANSLEEMKKGNMERECIEERCNYEEAREIFEDVKKTDEFWHKYVDGDA CLSHPCVNGGQ

          110     120     130     140     150     160     170     180     190     200
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
FX_Human   CKDGLGEYTTCTCLEGFEGKNC E L FTRKLC SLDN GDCD QFCH EEQ ---NSVVCSCARGYTLADNGKACIPTG PYP CGKQTLERRKRSVAQATSS-----
FX_Gorilla CKDGLGEYTTCTCLEGFEGKNC E L FTRKLC SLDN GDCD QFCH EEQ ---NSVVCSCARGYTLADNGKACIPTG PYP CGKQTLERRKRSVAQATSS-----
FX_Bovine  CKDGLGDIYTTCTCAEGFEGKNC E FSTREICSLDN GDCD QFCREER ---SEVRCSCAHGYVLGDDSKSCVSTERFPCGKFTQGRSRRWAIHTSED-----
FX_Dog     CKDGLLEYSICICLEGYEGKNC E L STRKLC SVDN GDCD QFCREEQ ---SSVVCSCASGYILGDN GKSICISTEPFPCGKTTVGRKRATETAPSS EA-----
FX_Pig     CKDGLGEYNCTCAEGFEGKNC E LLTRKLC SLDN GDCD QFCREEQ ---SSVVCSCASGYILGDN GKSICISTEPFPCGKRTILGRSRRSANHG-----
FX_Mouse   CRDGLGGYTTCTCSEGFEGKNC E L FVRKLC RLDN GDCD QFCREEQ ---NSVVCSCASGYFLGDN GKSICISTAPFPCGKITTGRRKRSVALNTSD-----
FX_Rat     CRDGLGSYTTCTCTEGFEGKNC E L FVRKLC SLDN GDCD QFCREEQ ---NSVVCSCAKGYFLGDN GKSCLSTAPFPCGKTNKGRAKRSVALNTSN-----
FX_Opossum CKDGVGEYTCSCMEGYEGKNC E FSSVAYCSLDN GDCD QFCKEAK ---NTVVCSCAKGYILGDDGKSCIPTEPYPCGKETLERRKRSVPEPDMQS-----
FX_Chicken CKDGLGSYTCCLDGYQGNCE FV I PKYCKINNGDCEQFC SIKKSVQKDVVCSCTSGYELAEDGKQC VSKVKYPCGKVL MKRIKRSVILPTNSNT-----
FX_Zebrafish CKDAIGPYTCFCQQGFKGYNCE I V I PELCENENGGCDHFCEVME ---KNVVCSCANGYELAPNGKSCQSQDPFKCGVIYPKKTRSIFFHTPNITESENEE

          210     220     230     240     250     260     270     280     290     300
.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|.....|
FX_Human   ---SGEAPDSITWKPYDAADLDPTENPF D LLDLNFQ TQP ---ERGDNNLTRIVGGQECKDG ECPWQALLIN -EENEGFCGGTILSEFYILTA AHCLYQAK
FX_Gorilla ---SGEAPDSITWKPYDATDLDPTENPF D LLDLNFQ TQP ---ERGDNNLTRIVGGQECKDG ECPWQALLIN -EENEGFCGGTILSEFYILTA AHCLYQAK
FX_Bovine  -----ALDASELEHYDPADLSPT ESSL D L LGLNRTEP ---SAGEDGSQVVRIVGGRDCAEG ECPWQALLVN -EENEGFCGGTILNEFYVLTAAHCLHQAK
FX_Dog     --PPDAEEEEAGMLEQYDPGDL SPTQSTMFLLPFNQ TNS --DPDEDASGLVRIVGGQDCRDG ECPWQALLIN -EENEGFCGGTILSEYYILTA AHCLQOAK
FX_Pig     ---SEAAAEAGRSEQ-EPGDLGPTEGPHLLSLNDTEPGPEEDEDESSLVRIVGGRDCREGECPWQALLVN -EENEGFCGGTTLSEFHVLTAAHCLHQAK
FX_Mouse   ---SELDLEDALL---DEDFLSPTENPI ELLNLNETQP ---ERSSDDLVRIVGGRECKDG ECPWQALLIN -EDNEGFCGGTILNEFYILTA AHCLHQAR
FX_Rat     ---SEPDPELMP---DADILYPTESPSELLNLNKTEP ---EANSDDVIRIVGGQECKRGECPWQALLFSDEETDGF CGGTILNEFYILTA AHCLHQAK
FX_Opossum --VTPSLSENPLTDLEKETLPPTKAPLEGF L PNRTEP ---ENNGKDHRRIVGGKECNDG ECPWQALLID -ENKEGFCGGTILDEYNILSAAHCMFPMK
FX_Chicken --NATSDQDVPSTNGSILEEVFTTTT ESPTPPPRNGSS ---ITDPNVDTRIVGGDECRPG ECPWQAVLIN -EKGEFCGGTILNEDFILTA AHCLINQSK
FX_Zebrafish ETELEATIEPVYNHSNPLNNQ TDSMFG LHELEIIIEEP -ILPVVSTAGDRIVNGVECP PGDPCWQALLIN -ENNMGFCGGTILTEHFILSAAHCMNESL
```

```

          310      320      330      340      350      360      370      380      390      400
    ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
FX_Human  RFKVRV GDRNTEQEEGG EAVHEVEV VVIKHN RFTKET YDFDIA VLRLKTP ITFRMN VAPACL PERDWA ESTLMT QKTGIV SGGFGR THEKGR QSTRLK MLEV
FX_Gorilla RFKVRV GDRNTEQEEGG EAVHEVEV VVIKHN RFTKET YDFDIA VLRLKTP ITFRMN VAPACL PERDWA ESTLMT QKTGIV SGGFGR THEKGR QSTRLK MLEV
FX_Bovine  RFTV RV GDRNTEQEEGN EMAHEVEV EMTVKH SRFVK ETYDFDIA VLRLKTP IRFRRN VAPACL PEKDWAEATLMT QKTGIV SGGFGR THEKGR LSSTLKM LEV
FX_Dog     KFTV RV GERD TDKEEG NEVAHEVEV EMIKHN KFVRE TYDFDIA VIKLKT P ITFRMN VAPACL PQKDWAE STLMT QKTGIV SGGFKT HEKGRP SSTLKM MEV
FX_Pig     RFKVRV GDHNLEKEEG DEAAHEVEV ETVKHS RFFVRE TYDFDIA VLKLT P ITFR TNVAPACL PEKNWAEATLLT QKTGIV SGGFGR THERGR PSSTLKM LEV
FX_Mouse   RFKVRV GDRNTEKEEGN EMVHEVDV VVIKHN KFQRD TYDYDIA VLRLKTP ITFRMN VAPACL PQKDWAE STLMT QKTGIV SGGFGR THEKGR QSNILKM LEV
FX_Rat     RFKVRV GDLNTEQEDGG EMVHEVDMI IKHNKF QRD TYDFDIA MLRLKTP ITFR ENVAPACL PQKDWAEATLMT QKTGIV SGGFGR THEKGR QSKVLKM MEV
FX_Opossum RFQVVV GERNTEKEDG NEEAHEVDK VLAHKGFVRE TYDNDIAL IKLKLP IFRFRKNVAPACL PEKDWAE DVL MNQKVG VVSGFGRV HERGRTSAV LKMLTV
FX_Chicken EIKVVV GEVDREKEEH SETHTHAEKIFV HSKYIA ETYDNDIAL IKLKEPIQFSEYVVPACL PQADFA NEVLMNQKSG MVSGFGR EFEEAGRLSKRLKV LEV
FX_Zebrafish SIRVVV GEYD TLVPEGREATH DVDEIL IHKNYQ PD TYHNDIAL IKLKSKPIKFT KYIIPACLPEMKFA ERVLMQDDGLVSGFGRVREGGLSSTILQKLT V

```

```

          410      420      430      440      450      460      470      480      490      500
    ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
FX_Human  PYVDRNSCKLSSSFIITQNMFCAGYDTKQEDACQGD SGGPHVTRFKD TYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKTRGLPKAKSHAPEVI
FX_Gorilla PYVDRNSCKLSSSFIITQNMFCAGYNTKQEDACQGD SGGPHVTRFKD TYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMRTRGLPKANSHAPEVV
FX_Bovine  PYVDRSTCKLSSSFTITPNMFCAGYDTQPEDACQGD SGGPHVTRFKD TYFVTGIVSWGEGCARKGKFGVYTKVSNFLKWIDKIMKARAGAAGSRGHSEAP
FX_Dog     PYVDRNTCKLSSSFSITQNMFCAGYDSKPEDACQGD SGGPHVTRFKD TYFVTGIVSWGEGCARKGKYGIYTKVTNFKLWIDRSMKARGAAPALAGGPHT-
FX_Pig     PYVDRNTCKLSSSEFLITPNMFCAGYDEQPEDACQGD SGGPHVTRFRD TYFVTGIVSWGEGCARRGKYGVYTKVTNFKLWIERSMRARA-EAGAEHPHQ--
FX_Mouse   PYVDRNTCKLSTSF SITQNMFCAGYEAKLEDACQGD SGGPHVTRFKNTYVVTGIVSWGEGCARKGKYGIYTKVTTFLKWIDRSMKARVGP TAE TPRTAGP
FX_Rat     PYVDRNTCRLSTSF SITQNMFCAGYDAKQEDACQGD SGGPHVTRFKD TYFVTGIVSWGEGCARKGKYGIYTKVTAFLKWIDRSMKARVGP TSETPRLTHP
FX_Opossum PYVDRNTCKLSSTFTISSNMFCAGYDNQPEDACEGDSGGPHVTKFKD TYFVTGIVSWGEGCARKGKYGIYTKVTAYL GWIKKYMRTKKIQ-----
FX_Chicken PYVDRSTCKQSTNFAITENMFCAGYETE QKDACQGD SGGPHVTRYKD TYFVTGIVSWGEGCARKGKYGVYTKLSRFLRWVRTVMRQK-----
FX_Zebrafish PYVNRACIESSNFKISGRMFCAGYDQEEKDACQGD SGGPHVTRFKNTWFITGVVSWGEGCARKGKYGVYTVQVSKYIMWINNAMTKVMPETGASLKP KAK

```

```

          510
    ....|....|..
FX_Human  TSSPLK-----
FX_Gorilla TSSPLK-----
FX_Bovine  ATWTVPPPLPL-
FX_Dog     -----
FX_Pig     -----
FX_Mouse   PN-----
FX_Rat     PY-----
FX_Opossum -----
FX_Chicken -----
FX_Zebrafish RELRHKTPIRRV

```