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Tetrapods
Exon# and AS observed in:  [15-------------------][16------------][17-------Hs,Mm,Gg-------][18--------Hs,Gg--

Human      DTPVGNDQLLEILNKLIKYIQIKFVRGSTFKEIPVTVYTTKIITKVVEPKIKVIEGSLQPIIKTEGPTLTKV--KIEGEPEFR
Mouse      DIPVGNDQLLELLNKLIKYIQIKFVRGSTFKEIPMTVYT-KIITKVVEPKIKVIQGSLQPIIKTERPAMTKI--QIEGDPDFR
Opossum    DLPVGNDQLLEILNKLIKYIQIKFVRGSTFKEIPVTVYSTKIITKVVEPKIKVIEGSLQPIVKSEG--------PFEGNSEFQ
Platypus   DTPVGNNRLLEILNKLIKYIQIKFVHGSNFKEIPLTVYSTKIITKVVEPKIKVIEGSLQPIIKNEGPAITKVT-VVEGEPEFS
Chicken    DLPVGNDQLLTILKKLIKYIQIKFVRDSTFKEIPLTFYN----------KINIIESNVQPIIRKEDPSITQLTKIIEGEPEFK
Lizard     DMPVGNDQLLAILKKLIKYIQIKFVRGSTFKEIPMTFYTTRIITKVVDPKIKVIEGSFEPILGNEVPSITKITKVIEGEPEFK
Frog       DVSLGNEQLLSILNKIIKYITIKFSRGSTFKEIPLTKYIK---------FITIGEPRVTTVTR-----------IIEIKPEMR

Fish
Exon# and AS observed in:  [15-------------------][16-----------][17----------------------][18=19-------------

Zebrafish, locus 1   DIPVGSQDLLSLLRRIIRYIQFKFVPGYRYQEIPLTFMR----------------RVIT-----------------VPG-----
Stickleback, locus 1 DIPVGSQDLLTLLKRLVTYMQIKYISGFRYKEIPLTFLR----------------RIITRVVQEGEPTITKVTRVIEGQP---
                     *  .:*.:  ** :*.::: *: :*:   .   ::***:*                 .                   .

Tetrapods
Exon# and AS observed in:  18-----------][19------------Hs--------------][20----------Mm-------------][21--

Human      LIKEGETITEVIHGEPIIKKYTKIIDGVP--VEITEKETREERIITG--PEIKYTRISTG-GGETEETLKKLLQEEVTKV
Mouse      LIKEGETVTEVIHGEPVIKKYTKIIDGVP--VEITEKQTREERIITG--PEIKYTRISTG-GGETGETLQKFLQKEVSKV
Opossum    VIKEGETITKVIHGEPIIKKYTKIIGGRP--VEITEKETTEERIIQG--PEIKYTRISSGNVGETEETLKKLLQEEVTKV
Platypus   LVNEGERITQVIHGEPIVKKYTKIIGGRP--VGITETEVTEERIVKG--PEIKYTRITAAGTAETEEAIQKLLEEEVTKV
Chicken    IVREGETITKVIHGEPIIKTYTKIIDGRP--VEVTEKKVTEERIIQG--PEIKYTRITAG-GTDNEENLKRLLEEEVTKV
Lizard     LVREGETVSKVIHGEPKIKKYTKIIDGFP--VEVTEKEVTEERIIQG--PELKYTHITTGDGADAEETLKKLLEEEVTKV
Frog       VVG-GETITKVIHGDPSITRITKVIEGDPEFKLIKEGETRVTKVIQGG-PEITYTRISGLDPDADEETIKKMLEG-ITRV

Fish
Exon# and AS observed in:  18=19-----------------------------------------------------------------------

Zebrafish, locus 1   ---DVTKVTRVIQGEPTITKVTRVIEGAP-------SVTKVTRVIEGQPSITKVTRVIEGQPSLTKVTRVIEGDPSMT--
Stickleback, locus 1 ---SITKVTRVIEGQPSITKVTRVIEGEP-------SITKVTRVIEGEPSITKVTRVVEGQPSITKVTRVIEGQPSITKV
                        ::.**.*:* :.  *::* * *          .   ::: *  .  . *::                :   :

Tetrapods
Exon# and AS observed in:  21----Hs,Mm,Gg,Xt-----][21V22------Gg,Xt-----------][22-----------][23--------]

Human      TKFIEGGDGHLFEDEEIKRLLQG----------------------------DTPVRKLQANKKVQGSRRRLREGRSQ-
Mouse      TKFIEGGDGHLFEDEEIKRLLQG----------------------------DTPAKKIPANKRVQGPRRRSREGRSQ-
Opossum    TKFIEGGDAHLLEDEEIKRLLQGAGTEYTKVTKVIESEPQIIETEIKKVLQADRPVRKVQANKRTQGTRRRSREGRPQ-
Platypus   TKFIEGGDTHVFEDEEIKRLLQGAGTEYTKVTKVIEGEPQIVEREIKKVLLEDQPVKKVQANKRIPG------------
Chicken    TKFIEG-DAHLLEDEEIKRLLQGAGTEYTKVTKVIEGEPQIIEREIKKVRLEEAPVRKVQANKRTQGGSARRRTRLAYS
Lizard     TKLIEG-DGHLLEDEEIKRFLQGAGSEYTKVTKVIQGEPKVVETEIKKIHLEETPVRRVQTSRRTQ-------------
Frog       TKFTEG-DSQILEDDELKALLQGGTHISKVTTVHEKEIPETVQI-SKIVK--EPQVRKVQTGRRTQVRRKMRRSHQPS-

Fish
Exon# and AS observed in:  ----][20-----Dr------][21----------Dr-------------][22---Dr,Ga---][23---------]

Zebrafish, locus 1   -RVIEGPEYSVTSSTD-TELY-----DFGE------------DSEGITTFIQEG-TRRVPPRRVQGGVRRRT-------
Stickleback, locus 1 TRVIEGPEFSVSSGTTNIALEAANISDMDD------------DSKRLVQIIQEGSSRRTASRRVVDSNRRRGRD-----
                      :.    :  : .                                          ::  . :
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Yellow highlighting: Beta strand predicted by PsiPred

Green highlighting: Alpha helix predicted by PsiPred

No highlighting; Coil predicted by PsiPred

Pink highlighting: Manual edit of ClustalW data to align exon boundaries: Residues TELY (Dr exon 20) originally aligned with ANIS (Ga).

Blue font indicates manual alignment for Xt exons 21 and 21V22.