S1 Figure Protein alignment CLUSTAL W (1.83)

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Canis lupus familiaris  XP_013972931.1    1   MGWSERAPPGPAKCHGHRPGLWPPHTPMSGDQLCLVMSSRCPGSPVVSSWAQKAAVPGPG  60
Rattus norvegicus       XP_008774007.1    1   MR----SPGGPG---------WASKRPSRTSRTQTACLCLCAQQPARHIVSAAFNLSRPG  47
Homo sapiens            NP_690005.2       1   MG----SPGAS----------LGIKKALQSEQATA----LPASAPAVSQPTAPAPSCLPK  42
Mus musculus            NP_080690.2       1   MR----NPGGPG---------WASKRPLQKKQNTA---CLCAQQPARHFVPAPFNSSRQG  44
Bos taurus              XP_003586694.1    1   MG----SRGGPR---------LGIKKALQREQATA----L---RPAVHQTASPGPSSLPT  40
                                              *                                           *

Canis lupus familiaris  XP_013972931.1   61   LGTCTCPRAPRTCPAPRSVIAPARLCGLLYAACVAAALAQEGSAMAGTGTGTGTGSGTGT  120
Rattus norvegicus       XP_008774007.1   48   KNTAQPT---KPSLS--SVIAPTLFCAFLYLACVTAELPEVSRRMAASGVRSKEG-----  97
Homo sapiens            NP_690005.2      43   AGQVIPTLLREAPFS--SVIAPTLLCGFLFLAWVAAEVPEESSRMAGSGARSEEG-----  95
Mus musculus            NP_080690.2      45   KNTAQPT---EPSLS--SVIAPTLFCAFLYLACVTAELPEVSRRMATSGVRSKEG-----  94
Bos taurus              XP_003586694.1   41   AGTQXNSLLREALFS--SVIALTLLCGFLYLLWVVAAVPEGSRGMAGSGVRSQE------  92
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Canis lupus familiaris  XP_013972931.1  121   EAGPRGLRGERAFVPEPFDGEGVGARAWLHRFEAIGDLNGWDPAARLRLLRGSLRGRALQ  180
Rattus norvegicus       XP_008774007.1   98   -------RREHAFVPEPFNGTNVAPSLWLNRFEVIDDLNHWDHATKLRFLKESLRGDALD  150
Homo sapiens            NP_690005.2      96   -------RRQHAFVPEPFDGANVVPNLWLHSFEVINDLNHWDHITKLRFLKESLRGEALG  148
Mus musculus            NP_080690.2      95   -------RREHAFVPEPFTGTNLAPSLWLHRFEVIDDLNHWDHATKLRFLKESLKGDALD  147
Bos taurus              XP_003586694.1   93   ----------RAFVPEPFDGASVAPHLWLHRFEVINHLNHWDHITKLRFLKESLRGDALG  142
                                                         ******* *       **  ** *  ** **    ** *  ** * **

Canis lupus familiaris  XP_013972931.1  181   TLRALGPEAQADYAAVKAALLQASGGLP------PREIVFANSMGKGYYLKGKIGKVPVR  234
Rattus norvegicus       XP_008774007.1  151   VYNGLDSQAQGDYNTVKEALLKSFGGLGAAHNK-PKEIVFANSMGKGYYLKGKIGHVPVR  209
Homo sapiens            NP_690005.2     149   VYNRLSPQDQGDYGTVKEALLKAFGVPGAAPSHLPKEIVFANSMGKGYYLKGKIGKVPVR  208
Mus musculus            NP_080690.2     148   VYNGLSSQAQGDFSFVKQALLRAFGAPGEAFSE-PEEILFANSMGKGYYLKGKVGHVPVR  206
Bos taurus              XP_003586694.1  143   AFNGLSPEDQGNYEAVKETLLKTFGGPEAAHSHLPKEIVFANSMGKGYYLKGKIGKVPVR  202
                                                  *    *     **  **   *         * ** ************** * ****

Canis lupus familiaris  XP_013972931.1  235   FLVDSGAQVSVVHPSLWEEVTDGDLDTLRPFENVVKVANGAEMKILGIWDTVVSLGKLKL  294
Rattus norvegicus       XP_008774007.1  210   FLVDSGAQVSVVHPALWEEVTDADLDTLRPFDNVVKVANGAEMKILGVWDTEVALGKLKL  269
Homo sapiens            NP_690005.2     209   FLVDSGAQVSVVHPNLWEEVTDGDLDTLQPFENVVKVANGAEMKILGVWDTAVSLGKLKL  268
Mus musculus            NP_080690.2     207   FLVDSGAQVSVVHPALWEEVTDGDLDTLRPFNNVVKVANGAEMKILGVWDTEISLGKTKL  266
Bos taurus              XP_003586694.1  203   FLVDSGAQVSVVHPSLWEEVTDGELDTLRPFENVVKVANGAEMKILGVWDTVVSLGKLKL  262
                                              ************** *******  **** ** *************** ***   *** **

Canis lupus familiaris  XP_013972931.1  295   KAEFLVANASAEEAIIGTDVLQDHNAVLDFEHRTCTLKGKKFRLLPVGGSLEDEFDLELI  354
Rattus norvegicus       XP_008774007.1  270   EAHFLVANASAEEAIIGTDVLQDHNAVLDFEHRTCTLKGKKFRLLPVGGSLEDEFDLELI  329
Homo sapiens            NP_690005.2     269   KAQFLVANASAEEAIIGTDVLQDHNAILDFEHRTCTLKGKKFRLLPVGGSLEDEFDLELI  328
Mus musculus            NP_080690.2     267   KAEFLVANASAEEAIIGTDVLQDHNAVLDFEHRTCTLKGKKFRLLPVGSSLEDEFDLELI  326
Bos taurus              XP_003586694.1  263   KAAFLVANASAEEAIIGTDVLQDHNAVLDFEHRTCTLKGRKFRLLPVGGSLEDEFDLELI  322
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Canis lupus familiaris  XP_013972931.1  355   EEEP---AEPGAAP-SY  367
Rattus norvegicus       XP_008774007.1  330   EEE--SSAPEA----SH  340
Homo sapiens            NP_690005.2     329   EED--PSSEEGRQELSH  343
Mus musculus            NP_080690.2     327   EEEEGSSAPEG----SH  339
Bos taurus              XP_003586694.1  323   EEE--PSSEEGGQQLSC  337
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