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gi|94967023|ref|NP_115941.2|      ------MEPDSLLDQD-----------------------DSYESPQERPGSRRSLPGSLSEKSP-SMEP---SAATPFRVTGFLS-RRLKGSIKRTKSQPKLDRNHSFRHIL----PGFRSAAAAAADNERSHLMPRLKESRSHESLLS   150
gi|73968258|ref|XP_548477.2|      MCREQRASPHAVLQSAGPIGQTARAPLPLRWQCPVA--RLALRESPQERPGSRRSLPGSLPEKSP-SMEP---SATTPFRVTGFLEVMRLRGDISRPRAEPHINSNHVFRELRR---PVFRHLGWASTEKERSHLMPRLKESRSHESLLS   150
gi|48675375|ref|NP_001001602.1|   ------------------------------------------------------------------------------------------------------------------------------------------   150
gi|20270037|ref|NP_619724.1|      ------------------------------------------------------------------------------------------------------------------------------------------   150
gi|194671677|ref|XP_001789297.1| MSAGGGARKSTGRPSYYYRLLRRPRLQRQRSRSRSR--TRPARESPQERPGSRRSLPGSLSEKSP-SMEP---SATTPFRVTGFLS-RRLKSAFKRTKGEPRLDHGSAFRHILPGFRSAAAAAASAADNERSHLMPRLKESRSHESLLS   150
gi|118099476|ref|XP_415400.2|     ----MNSRKSSGRPSYYYRLLRRSRLQRQRSRSRSRN-RPLSRESPPERCGQRRSMPSGVAERNP-TMEP---AATTPFRVTGFLS-RRLKGSIKRTKSQPKLDRNSSFRHILP---------GFRSVDNERSHLMPRLKESRSHESLLS   150
gi|171184459|ref|NP_001116329.1|  --MSGVTRKGSGRPGYYYRLLGRTRLQRQRSRSRSRSRVTNNKDSPPERTGRRRSIPGSAPDKVPPTMEPTAAAAATPFRVTGFLS-RRLKGSIKRTKSQPKLDRNSSFRHILP---------GFRPVDNERSHLMPRLKESRSHESLLS   150
                                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
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                                                                                                                                                                                                                                                                             
gi|94967023|ref|NP_115941.2|      ********:***********::*:**:************:******* ****** *:**************:***.:: :***:*:::******:::..   300
gi|73968258|ref|XP_548477.2|      PSSAVEALDLSMEEEVVIKPVHSSILGQDYCFEVTTSSGSKCFSCRSAAERDKWMENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTGKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNS   300
gi|48675375|ref|NP_001001602.1|   -------------------------------------------------------MENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTSKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNS   300
gi|20270037|ref|NP_619724.1|      -------------------------------------------------------MENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTGKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNS   300
gi|194671677|ref|XP_001789297.1| PSSAVEALDLSMEEEVVIKPVHSSILGQDYCFEVTTSSGSKCFSCRSAAERDKWMENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTGKLKTDNVFWGEHFEFHNLPPLRMVTVHLYRETDKKKKKERSS   300
gi|118099476|ref|XP_415400.2|     PSSAVEALDLSMEEEVVIKPVHSSILGQDYCFEVTTSSGSKCFSCRSAAERDKWMENLRRAVHPNKDNSRRVENMLKLWIIEAKDLPAKKKYLCELCLDDVLYARTTCKLKTDNVFWGEHFEFNNLPSLKNITVHLYKETDKKKKKDKTN   300
gi|171184459|ref|NP_001116329.1|  PTSAVEALDLSMEEEVLIKPVHSSILGQDYCFEVSTSTGSKCFSCRSAAERDKWMENLRRAIHPNKDNSRRVENMLRLWIIEAKDLPAKKKYFCELCLDDSLYARTTCKMKTDNVFWGEHFEFNNLPAVQSITVHVYRDSDKKKKKDKNN   300
                                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
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gi|94967023|ref|NP_115941.2|      YLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALG   450
gi|73968258|ref|XP_548477.2|      YLGLVSLPAASVAGRQFVEKWYPVVTPNPKGTKGPGPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALG   450
gi|48675375|ref|NP_001001602.1|   YLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTVSILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALG   450
gi|20270037|ref|NP_619724.1|      YLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKGIEEYLKLVGHKYLQDALC   450
gi|194671677|ref|XP_001789297.1| YLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALG   450
gi|118099476|ref|XP_415400.2|     FIGQVNIPVSSVTGRQFVEKWYPVVSPNPGKGKSPGPMIRIKSRYQSMSILPMEMYKEFAEYITNNYMVLCSVLEPSLSVKNKEEMASALVHILQSTGKAKDFLTDLMMSEVDRCGENEHLIFRENTLATKAIEEYLKLVGQKYLQDALG   450
gi|171184459|ref|NP_001116329.1|  YVGLVSIPVVTVTSRQLVEKWYPVSQPNPGKGKAAGPMVRIKARYQSMNILPMELYKEFAEYTTNNYMLLCSVLEPVISVKNKEEMACALVHILQSTGKAKDFLTDLMMSEVDRCGENEHLIFRENTLGTKAIEEYLKLVGQKYLQDALG   450
                                  .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
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gi|94967023|ref|NP_115941.2|      EFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|73968258|ref|XP_548477.2|      EFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|48675375|ref|NP_001001602.1|   EFIKALYESDENCEVDPSKCSSADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|20270037|ref|NP_619724.1|      EFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|194671677|ref|XP_001789297.1| EFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|118099476|ref|XP_415400.2|     EFIKALYESDENCEVDPSKCSSSDLPEHQSNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSNRGRPDISERLISASLFLRFLCPAIMSPSLFSLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQ   600
gi|171184459|ref|NP_001116329.1|  EFIKALYESDENCEVDPSKCSSSDLPEHQSNLRMCCELAFCKIIESYRVFPRELKEVFASWRQECGNRGRPDISERLISASLFLRFLCPAIMSPSLFNLTQEYPDDRTARTLTLIAKVTQNLANFTKFGNKEEYMSFMNQFLEQEWTNMQ   600
                                  .......460.......470.......480.......490.......500.......510.......520.......530.......540.......550.......560.......570.......580.......590.......600
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gi|94967023|ref|NP_115941.2|      RFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQLEQSIVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSISAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQM   750
gi|73968258|ref|XP_548477.2|      RFLLEISNPETISNTAGFEGYIDLGRELSSLHSLLWEAVSQLEQSIVSKLGPLPRILRDVHTALNTPGSGQLTGTNDLASTPGSGSSSISAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQM   750
gi|48675375|ref|NP_001001602.1|   RFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQLDQSVVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSVSAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQM   750
gi|20270037|ref|NP_619724.1|      RFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQLDQSIVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSVSTGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQM   750
gi|194671677|ref|XP_001789297.1| RFLLEISNPETVSNTAGFEGYIDLGRELSSLHSLLWEAVSQLEQSIVSKLGPLPRILRDVHTALSTPGSGQLAGTNDLASTPGSGSSSVSAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQM   750
gi|118099476|ref|XP_415400.2|     RFLLEISNPETISNTAGFEGYIDLGRELSTLHSLLWEVISQMEQSTATKLGPLPRILRDVNSALSNPACVQVSVTADHTASTPSAGNSISAGLQKMVIENDLPGLIDFTRLPSPTPENKDLFFVTRSAGAQPSPARSSSYSEANEPDVQM   750
gi|171184459|ref|NP_001116329.1|  RFLLEISNPETISNTAGFEGYIDLGRELSTLHSLLAEVLSQMDQSAASKLGPLPRILRDVHGALTNPTNVQMSVPSDRVPSPPVPGCSISTGIQKMAIDSDLPGPVDFTRLPSPTPENKDLFFVTRSSGLQGSPTRSSSYSEANEPELGL   750
                                  .......610.......620.......630.......640.......650.......660.......670.......680.......690.......700.......710.......720.......730.......740.......750
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gi|94967023|ref|NP_115941.2|     ANGGKSLSMVDLQDARTLDGEAGSPAGPDVLPTDGQAAAAQLVAGWPARATPVNLAGLATVRRAGQTPTTPGTSEGAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSEGHSSLSSHSNSEELAAAAKLGSFST-----AAEE   900
gi|73968258|ref|XP_548477.2|      ANGGKSLSMVDLQDARTLDGEAGSPAGPDALTTDGQTPASQLAAGWPARTAPASLAGLATVRRAGQTPTTPGTSEGAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSEGHSSLSSHSNSEELTAAAKLGSFSS-----AAEE   900
gi|48675375|ref|NP_001001602.1|  ANGSKSLSMVDLQDARTLDGEAGSPVGPDALPADGQVPATQLLAGWPARAAPVSLAGLATVRRAVPTPTTPGTSEGAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSEGHSSLSSHSNSEELAAAAKLGSFST-----AAEE   900
gi|20270037|ref|NP_619724.1|     ANGSKSLSMVDLQDARTLDGEAGSPVGPEALPADGQVPATQLVAGWPARAAPVSLAGLATVRRAVPTPTTPGTSEGAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSEGHSSLSSHSNSEELAAAAKLGSFST-----AAEE   900
gi|194671677|ref|XP_001789297.1| ANGGKSLSMVDLQDARVLDGEAGSPAGPDALTADGQAPATQLVAGWPARAAPVSLAGLATVRRAGQTPTTPGTSEGAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSEGHSSLSSHSNSEELAAATKLGSFSSSTAAAAPED   900
gi|118099476|ref|XP_415400.2|    SNGSKSLSMVDLQDNRLLDSGANAPGAADSLN-DSQSSLGQLQGVWTARTQQNSVTGMATVRRVGQTPTTP-SGESAPGRP-QLLAPLSFQNPVYQMAAGLPLSPRG--LGDSGSECHSSLSSHSNSEELTAN-KHGFAGP----AASED   900
gi|171184459|ref|NP_001116329.1| ANGGKSLSMVDLQEAARALEPISIPAG---ITSEGMGEGAMVP--WNARTPQGNIAGGPTLHRPVQSPTTP-GAEGAPGRPTQLLAPLSFQNPVYQMAAGLPVSARGNASGDSGSECHSSVSSHSNNEECLGGTKTTFLTQG--ASVGEE   900
                                 .......760.......770.......780.......790.......800.......810.......820.......830.......840.......850.......860.......870.......880.......890.......900

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gi|94967023|ref|NP_115941.2|     LARRPGELARRQMSLTE--KGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPNLLSTLQYPRPSSGTLASASPDWVGPSTRLRQQSSSSKGDSPELKPRAVHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRL  1050
gi|73968258|ref|XP_548477.2|      LSRRPGDLARRQMSLTE--KGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTLLSTLQYPRPSSGTLASASPDWAGPGARLRQPSSSSKGDSPELKPRVVHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRL  1050
gi|48675375|ref|NP_001001602.1|  LARRPGELARRQMSLTE--KGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTLLSTLQYPRPSSGTLASASPDWAGPGTRLRQQSSSSKGDSPELKPRAMHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRL  1050
gi|20270037|ref|NP_619724.1|     LARRPGELARRQMSLTE--KGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTMLSTLQYPRPSSGTLASASPDWAGPGTRLRQQSSSSKGDSPELKPRALHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRL  1050
gi|194671677|ref|XP_001789297.1| LGRRPGELARRQVSLTE--KGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTLLSTLQYPRPSSGTLASASPDWAGPGARLRQQSSSSKGDSPELKPRAVHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRL  1050
gi|118099476|ref|XP_415400.2|    FTRRTGELARRQLSLSE--KGGQPTMPRQNSAGPQRRIDQPPPPPPPP--PVTRGRTPPSLLNTVQYQRPSSGSMMSSSPDWPGSGARLRQQSSSSKGDSPEMKQRTMHKQAPSPVNPNALDRTAAWLLNMNMQFLEDESIDPDSKHRDKL  1050
gi|171184459|ref|NP_001116329.1| FARRSGDFSRRQLSLTDPQHGNQPTVPRQSSAGPQRRIDQPPP---PTQTAPRGRTPPNLLNSGPYPRPLNNTMMSSSPDWPGSGARLRQQSSSSKGDSPETKHRAPHKQAPSPVNPSALDRTAAWL--MNVPYIEQE------PETELC  1050
                                 .......910.......920.......930.......940.......950.......960.......970.......980.......990......1000......1010......1020......1030......1040......1050

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gi|94967023|ref|NP_115941.2|     RSKDELSQAEK-DLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKESMH-----------------  1200
gi|73968258|ref|XP_548477.2|      RSKEELSQAEK-DLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKESMH-----------------  1200
gi|48675375|ref|NP_001001602.1|  RSKEELSQAEK-DLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQARNGVSPTNPTKLQIT  1200
gi|20270037|ref|NP_619724.1|     RSKEELSQAEK-DLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDVQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMRARNGVSPTNPTKLQIT  1200
gi|194671677|ref|XP_001789297.1| RSKEELSQAEK-DLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQARNGLSPTNPTKLQIT  1200
gi|118099476|ref|XP_415400.2|    RNKDELSQAEK-DLVVLQDKLRISNKKLEEYETRFKCQEETTQKLMLEYQARLEESEERLRRQQEDKEIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQTRNGISPTNPTKLQIT  1200
gi|171184459|ref|NP_001116329.1| R--DEHTQAEKAEISMLQDRLRMSVQRLEEYEARLKGQEEQAQKMLLEYQARLDESEERLRRQQEDKDLQMKGIISRLMSVEEELKKDHADMQAVVDSKQKIIDAQEKRIASLDAANARLMSALSQLKERYSMQTRNGISPTNPTKLQIT  1200
                                 ......1060......1070......1080......1090......1100......1110......1120......1130......1140......1150......1160......1170......1180......1190......1200

gi|94967023|ref|NP_115941.2|     -----------  1211
gi|73968258|ref|XP_548477.2|     -----------  1211
gi|48675375|ref|NP_001001602.1|  ENGEFRNSSNC  1211
gi|20270037|ref|NP_619724.1|     ENGEFRNSSNC  1211
gi|194671677|ref|XP_001789297.1| ENGEFRNSSNC  1211
gi|118099476|ref|XP_415400.2|    ENGEFRNSSNC  1211
gi|171184459|ref|NP_001116329.1| ENGEFRNSSNC  1211
                                 ......1210.
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