

gi|17509593|ref|NP_492969.1|
gi|193203328|ref|NP_492970.2|
gi|72001273|ref|NP_503375.2|
gi|17535345|ref|NP_496130.1|
gi|17535347|ref|NP_496123.1|
gi|17535587|ref|NP_496025.1|
gi|72000000|ref|NP_506771.2|
gi|32564384|ref|NP_497162.2|
gi|17568305|ref|NP_509836.1|
gi|17568311|ref|NP_509835.1|
gi|17535101|ref|NP_496017.1|
gi|25146689|ref|NP_741035.1|
gi|17535589|ref|NP_496022.1|
gi|17563712|ref|NP_506728.1|
gi|156104876|ref|NP_002010.2|
gi|114649218|ref|XP_509605.2|
gi|73993482|ref|XP_534520.2|
gi|194671875|ref|XP_001249769.2|
gi|34328180|ref|NP_034358.2|
gi|11276093|ref|NP_062179.1|
gi|45383624|ref|NP_989583.1|
gi|72535148|ref|NP_001014829.2|
MTHRTNFRFRFLFLPLFLKGMIFLLLFHFKFLVIFALELPIISLRPKSDCFLFWKCKIDYRIKKNKIKGFVLELEGOT--LSLQC--AYRRGTPKFTYP-----NFLA-----ERVEQEFSEFLNIDYVRIEDIREEDTGSFSC 131
MKLKLIVLLILVHASASVKKPPA-----IEVEDYQVQEDSIGKVFVEEHR--LILKCSAHHNGDLKINFPSEMEGNVGYDENNFK-----KRMEEYDDAFGDKVLTLNDVRESDTGTYSK 110
MRVSLREFVLVAQVVTLQPIIT-----IKVDFHEVKHHEISIGDYVELVEGKNRDISLTYGQHK-NLKIETPKREK-----HAGFPE-----IGIRTEAEWKKNEYWELLKNVRQCDTIGSYK 107
MVSYWDTG--VLLCALLSCLLLTGSSSGSKLKDPELSLKGTOHVMQAGOTLHLQCRGEAAHKWLSPEMVSKK--SERLSITK--SACGRNGKQFCSTLLNLTAAQANHTGFYSCKYLAVPT 114
MVSYWDTG--VLLCALLSCLLLTGSSSGSKLKDPELSLKGTOHVMQAGOTLHLQCRGEAAHKWLSPEMVSKK--SERLSITK--SACGRNGKQFCSTLLNLTAAQANHTGFYSCKYLAVPT 114
MVSCRDTG--VLLCALLGGLLLTGSSSGSKLKGPELSLKGTOHVMQAGOTLYLKRGEAAHSWLSPEVVRKE--SKRLSITK--SACGRNGKQFCSTLLNLTAAQANHTGFYSCKYLAVPT 114
MPATQVTEHCVPRCLLAFFRTREDTKKRPQAQDCRGRAFRTWRRSSSGSILRRPELSLKGTRHVMQAGOTLNLKCRGGAAHAWYLPEAVNKENOSGKLNITK--SACGKLNKKFCSTLLNLTAAQANHTGFYSCKYLAVPT 138
MVSQWDTA--VLPYALLGCLLLTGYGSGSKLKVPELSLKGTOHVMQAGOTLFLKCRGEAAHSWLSLPTTVSQE--DKRLSITK--SACGRNDRQFCSTLLNLTAAQANHTGLYTCRYLPTST 115
MVSQWDTA--VLPYALLGCLLLTGYGSGSKLKVPELSLKGTOHVMQAGOTLFLKCRGEAAHSWLSLPTTVSQE--DKRLSITK--SACGRNDRQFCSTLLNLTAAQANHTGLYTCRYLPTST 114
MFRQLLGS--VLLGAAFLLAGSTSGSKLKVPELSVNGRQHVQAGOTLNLTCRGMELHSWLSPEALSKD--SKRLNVTK--YACGRNGTQFCSTLLNLTAAQANHTGLYTCRYLPTST 112
MFDILFVM-----IFGLSQRVLLKDDIKGRFSSPVLDVTEKQLVIBRNQTLQLSCRGRWELQVLPVSGVPKL--YPTLHIVN--IQCGKKSQVYCSRLTSLPALQHTIGSYRCRYR--- 108
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

gi|17509593|ref|NP_492969.1|
gi|193203328|ref|NP_492970.2|
gi|72001273|ref|NP_503375.2|
gi|17535345|ref|NP_496130.1|
gi|17535347|ref|NP_496123.1|
gi|17535587|ref|NP_496025.1|
gi|72000000|ref|NP_506771.2|
gi|32564384|ref|NP_497162.2|
gi|17568305|ref|NP_509836.1|
gi|17568311|ref|NP_509835.1|
gi|17535101|ref|NP_496017.1|
gi|25146689|ref|NP_741035.1|
gi|17535589|ref|NP_496022.1|
gi|17563712|ref|NP_506728.1|
gi|156104876|ref|NP_002010.2|
gi|114649218|ref|XP_509605.2|
gi|73993482|ref|XP_534520.2|
gi|194671875|ref|XP_001249769.2|
gi|34328180|ref|NP_034358.2|
gi|11276093|ref|NP_062179.1|
gi|45383624|ref|NP_989583.1|
gi|72535148|ref|NP_001014829.2|
NSTEN--PAQSDSIHVFVHKSKIFLPSKSVFSSKDLWNELVVCKTKLTSKEIELYADGKLVASQ--DFDPRHGFRITRKGVAQ--PFFFECKFNKKNKTQVDFIISK--EPIDNEYILFWEDSFPPPH---VGNFSLTC 266
SMEH--SLNDIYVVFVHRKKVFLPLKSVMLIYKCG--EVMVPCKTIKFVDSIDIELYASNVLVKASKVYNDQRYGFKITKLYSEKQIVDVFECRYKKEENQLAVYIIEKE--ASDDGYHFSWEKGFOWPH---VGNFSLTC 250
VSDEFKESMLQNTVHIFVRKLDIFVRLKTIYHEHNGS--EIIIPCKTKFVDTKNVELYV-----QLTKNMYTMKPNSEVFFECKYINDSNQDLDYIISNSDPDATLIDQYEFYWEKSNDFVY---VGNYSITC 233
SKKKESESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 264
SKKKESESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 264
SKKKESESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 264
SKNK-AESTIYIFINDTRPFVDMRSEIPKVINMTEGKVVIPCRVSSPSISVTLKKFPGILLIPNGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 287
SKKKAESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 265
SKKKESESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 264
KKKR--ESIVYVINDTRPFVEMYSEIPEIIHMEGKEMIIICRVVAPNIAVTLKIPRETLIPDGKTIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 260
SKKKESESAYIFISDTRPFVEMYSEIPEIIHMEGRELVIPCRVTSPTNITVTLKKFPLDLIPDGKRIIWDNRKGFIIISNATYKEIGLLTCEATVNGHLYKNYLTHTROTNTIIDVQISIPRPVKLLRGHTLVLNCTATTPLNTRVOM 257
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300

gi | 17509593 | ref | NP_492969.1 | -----
gi | 193203328 | ref | NP_492970.2 | -----
gi | 72001273 | ref | NP_503375.2 | -----
gi | 17535345 | ref | NP_496130.1 | -----
gi | 17535347 | ref | NP_496123.1 | -----
gi | 17535587 | ref | NP_496025.1 | -----
gi | 72000000 | ref | NP_506771.2 | -----
gi | 32564384 | ref | NP_497162.2 | -----
gi | 17568305 | ref | NP_509836.1 | HLVTLEPANGNAFK-LGELAFECPCQCSR-----LDNHLVIEKHHNVGRKRLLS-----AIIHKNLQLRDAGKYRCIWKTKGKARQETIEHSLHVSPTIAQVRILEQSPFLKAKAGSSVKLVAKFAVYFAG 386
gi | 17568311 | ref | NP_509835.1 | NLNNGSKIFHGY-TNLSIECPQCSHD-----PGSHVHVDHRHRTIG-NKIS-----TVRIQHLLELEDGKYICTWEHENKEIKYTDYHLYVAPKKAQIKVIETSPIMRIKE-NRATSLAKFAIYFPE 368
gi | 17535101 | ref | NP_496017.1 | HLVTIGSDSLRPLNHQETIVLECPQNCDDGGYNNQSAHEIEKRSSGLRFGDPPSQDIVEKNTMLRYDRLSVYDRKTRSTVNFQNLTSDEGTIYRCWRNRSKTNIVLDYDLNFNQKGFQIKIIEISKQRLKMRK-NESTLLFVKFAVFPIN 382
gi | 25146689 | ref | NP_741035.1 | -----
gi | 17535589 | ref | NP_496022.1 | -----
gi | 17563712 | ref | NP_506728.1 | -----
gi | 156104876 | ref | NP_002010.2 | TWSYPDEKNKRASVRRRIDNSNSHANIFYSVLTIDKMNKDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVTEDAGNYTILLSIKQSNV 414
gi | 114649218 | ref | XP_509605.2 | TWSYPDEKNKRASVRRRINNSNSHANIFYSVLTIDKMNKDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVTEDAGNYTILLSIKQSNV 414
gi | 73993482 | ref | XP_534520.2 | NWSYVPEKNKRASIRORIGQRSSHANVVFYSVLIIDKVNKDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVAEDAGDYVILLAIKQSSV 414
gi | 194671875 | ref | XP_001249769.2 | TWSYVPGVKNKRASIRORIDQRNPHNNVVFYSVLIIDKVNKDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVAEDAGDYVILLAIKQANV 437
gi | 34328180 | ref | NP_034358.2 | SWNYVPGKATKRASIRORIDRSHSHNNVVFHSLVKINNVESRDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVTEDAGDYVILLAIKQSKL 415
gi | 11276093 | ref | NP_062179.1 | SWNYVPGKATKRASIRORIDQRNPHNSVVFHSLVKINNVESRDKGLYTCVRSVSGPSFKSVNTSVHIVDKAFIVKHKRQVLETVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVAEDAGDYVILLAIKQSKL 414
gi | 45383624 | ref | NP_989583.1 | TWIYVPEAMKRSVTRIDQKNREANVVFYSVLIIDKVDKRDIDKQYVACHVKSQPSNKLVTNTVIVYDKRFINLKRRTMLLEAVAGKRSYRLSMKVKAFFSPPEVWVKDGLPATKESARYLIRGYSLIHKDVAEDAGNYTILLAIKQSNV 410
gi | 72535148 | ref | NP_001014829.2 | SWTYVQKANGSAIISKISRSRS-NMLFYSLVLTIPSLSKADKGLYKQVTSQPSKREINTVIVYDQPFIRLKHRRNPFVQAFAGQKSFRLPKLKAFAPAPETIWLKDGVMVAERCSRYHVDGFSLVIRDVAEEDAGIYVILLAIKQCYGL 406
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450

gi | 17509593 | ref | NP_492969.1 | -----
gi | 193203328 | ref | NP_492970.2 | -----
gi | 72001273 | ref | NP_503375.2 | -----
gi | 17535345 | ref | NP_496130.1 | -----
gi | 17535347 | ref | NP_496123.1 | -----
gi | 17535587 | ref | NP_496025.1 | -----
gi | 72000000 | ref | NP_506771.2 | -----
gi | 32564384 | ref | NP_497162.2 | -----
gi | 17568305 | ref | NP_509836.1 | --NYIVVWRRITVNS--TEGPRDEIVEKG----LQATFLENSEMEVLDIIDLSCNK--SGKYLSSINVDTSQETIFWEVAVESDYPDVQLIIREPASFKVFGHOFYLLGTHLNDICVTSIPIVLDALLEYRKENFKIFTKVS--RSEFVAD 524
gi | 17568311 | ref | NP_509835.1 | KESYIAKWSRIYNSIHEGQSEIILNDDFRKIAATSPGDGAFSENLDIKAFVSTNMSGIYVLSISHMDTVQVQNEVAIENDEPDVQIIVREPPSFFISNOEYKPDNLHIECISISIPPADVVFYKTKNSEQFOEIEPNKLVSVG 518
gi | 17535101 | ref | NP_496017.1 | KKNYIAKWSRIYNSIHEGQSEIIRNGEFRQITIKTSGRNVFLETLLNLSPKIEM--SGIYVLSISNMDIVQVKNIEVEENDEPNAQLIRDPILLNISNOLFLPLNINLSIFCLAVSSPTDVIYFRYTRSER--QDVIYRTRSER--G 530
gi | 25146689 | ref | NP_741035.1 | -----
gi | 17535589 | ref | NP_496022.1 | -----
gi | 17563712 | ref | NP_506728.1 | -----
gi | 156104876 | ref | NP_002010.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPALYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSNNEESFILDADSNMGNRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVGRNISFVITDVPNGFHVNL 564
gi | 114649218 | ref | XP_509605.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPALYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSNNEESFILDADSNMGNRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVGRNISFVITDVPNGFHVNL 564
gi | 73993482 | ref | XP_534520.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 564
gi | 194671875 | ref | XP_001249769.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 564
gi | 34328180 | ref | NP_034358.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 564
gi | 11276093 | ref | NP_062179.1 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 564
gi | 45383624 | ref | NP_989583.1 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 560
gi | 72535148 | ref | NP_001014829.2 | FKNLTATLIVNVKPOIYEKAVSSFPDPTLYPLGSRQILCTAYGIPQPTIKWFVWPCNHNHSEARCDPFCSSKEESLIVELDSNIGRIESTIQORMAIEGKNTKMASTLVVADSRISGIVICIASNKVGTVERNISFVITDVPNGFHVNL 564
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600

gi | 17509593 | ref | NP_492969.1 | -----MMLRNLFPPIFIYIIFVLL--FLALSFL-----LYIWRRLITNSNS-DLGGSEEDVERSLL----- 54
gi | 193203328 | ref | NP_492970.2 | -----MAPLNQ-----QNIK--LKDLETS-LLPISHP--PSTLP----- 29
gi | 72001273 | ref | NP_503375.2 | -----MIDRNILVIFYCIIVVIALSVLFYVVKF-----YILRKEEHEETSL-ESGIHSSSQKTPS----- 56
gi | 17535345 | ref | NP_496130.1 | SPNEVSSQRRGMKGLIFVVFYSVGFACHTILRSSLSRNFEDSLRRIPRSTDKDETGFEDSNVQEVIFILLYCLFVALAILICLIIF-----YNRKRELPRANRSGDEVLLPETSADHKR----- 126
gi | 17535347 | ref | NP_496123.1 | -----MIGSVIFFALFSSVCFASC--YARNLTGGRNFEDSFKRVPRASEKNELG--DENVQIIFISLVSFVALAIGICCLLIKA-----YKSKRQLPANRSKQNEVLEPPTADKK----- 105
gi | 17535587 | ref | NP_496025.1 | PFNDCIATCCLFSIYAEKSNQIRNRISHMLSFMNPPKNGISLPRLRSID--DDDEGS--TFMKVAGALFAGYGFIVLICHIRRA-----FESLNIQOYTNRGNARNSYVQVOEITP----- 115
gi | 72000000 | ref | NP_506771.2 | -----MNPP-FPNRFARFVRSV--NHDESEKPLLIIIVFLMCAIFVGLSIIIFIICFLRRI-----YRS-ATKNGNRRLVQNIYVKAQDNTS----- 83
gi | 32564384 | ref | NP_497162.2 | GTFERKISYQVVLLENMMLKC--RVGNR--VALEIVHVADEIPNIKFKLASNKS-----AIIEGDTVILTCVVKLAGRCSTIIVWHRN-----LILHSTEVTEHSQLSFLYIRNATTSASGNVFCVLENQASENFELSILKV----- 654
gi | 17568305 | ref | NP_509836.1 | GTFDRGLIYNVIFEGMDLKCSSIRKGNRAITVKNLIKIGEGFEVVRPHEKSFKATESEPSKIIIEGDNVCLKVFPDLDSDVSVWRWFENPKSSDISIPPTETEIKQVSKHLILNLRDVTTSFTGTYCVVKNEDESKL-LETSIDV----- 667
gi | 17568311 | ref | NP_509835.1 | DTFEKGFIYNFVLAKRITDFKCIINVKKKT--STKFIIVTSNANKTFHEIEKSVNATKTEPSDIIIEGDNVRLCVVPYGAIVEDVWKFENPKMLKYTFPAMHP--VKDRYKRVILNVRNITIDFTGTYCVTKNKEFEHR-FETSISV----- 675
gi | 17535101 | ref | NP_496017.1 | DPAEK-----EGSVFKLRTIVFVVYVGLLVLLARIA-----FLVWR-----LRRSKTOEKR----- 92
gi | 25146689 | ref | NP_741035.1 | -----ILICILLILISVIVLSEKRSQQMQSS-----FLVWR-----DNITNRNSNPEVR----- 91
gi | 17535589 | ref | NP_496022.1 | -----MAMDVLILICIFIAVILFAFACILQK-----VYKKKIDRP----- 36
gi | 17563712 | ref | NP_506728.1 | -----
gi | 156104876 | ref | NP_002010.2 | KMPTEGEDLKLSCIVNKFVLRDVTWILLRIVNRRIMHYSISKQKMAITK-EHSITLNLTIMNVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 705
gi | 114649218 | ref | XP_509605.2 | KMPTEGEDLKLSCIVNKFVLRDVTWILLRIVNRRIMHYSISKQKMAITK-EHSITLNLTIMNVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 705
gi | 73993482 | ref | XP_534520.2 | KMPTEGEDLKLSCIVNKFVLRDVTWILLRIVNRRIMHYSISKQKMAITK-EHSITLNVITIKNVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 705
gi | 194671875 | ref | XP_001249769.2 | KMPAEGEDLKLSCIVNKFVLRDVTWILLRIVNRRITQOSISKQKTPVTK-EHSMTEPNLVIKNASLEDVSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 728
gi | 34328180 | ref | NP_034358.2 | KMPAEGEDLKLSCIVNKFVLRDVTWILLRIVNRRIMHYSISKQKMAITQ-DYSITLNLVLIKIVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 706
gi | 11276093 | ref | NP_062179.1 | KIPTEGEDLKLSCIVNKFVLRDVTWILLRIVNRRIMHYSISKQKMAITQ-DYSITLNLVLIKIVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 705
gi | 45383624 | ref | NP_989583.1 | KVPIEGENLVLSCKANKFMKDIISWLLPRTVITQI-----KARKALNK-EYSITLTLTIRNVSLQDSGTACARARNVYTGEEILQKKEITIRDQAPVLLRNLSDDHTVAISSSTILDCHANGVPEPQITWFKNNHKIQEP----- 695
gi | 72535148 | ref | NP_001014829.2 | BEPREGGDLRLLCANRHLVSDLSWS--RIISQIVWDEAEGLDGELTEGFHHTLHFLKLTARDSGTIRCSATHLRGEHHLDTAVEVTVLCAPVLLGNLSDHTVNVNSIILHCFARGVPOPHITWKKQKQLQVSV----- 694
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi | 17509593 | ref | NP_492969.1 | -----TSLFISNKVDLDR-TRIQT----- 73
gi | 193203328 | ref | NP_492970.2 | VPSNLVNLIDLEEFSSSLT----- 49
gi | 72001273 | ref | NP_503375.2 | SVRENSLQANEENVPIGL----- 76
gi | 17535345 | ref | NP_496130.1 | RNSNIVPEPTPYPIISGE----- 146
gi | 17535347 | ref | NP_496123.1 | RYSNNIVPEPTPYPIISGEDDFGK-----TPSRLSNE----- 138
gi | 17535587 | ref | NP_496025.1 | SSILAVQENTLIESINKEP----- 135
gi | 72000000 | ref | NP_506771.2 | SSSLVQDKETIETISINEETP----- 104
gi | 32564384 | ref | NP_497162.2 | EPIIAPYIVKTFGSAPVGS-----KLDCNLDGRPPPEYQWFKDGTPTYGTG-----RRLKFFEEDNSGIVQCLATNAGSATNSFELKLAGRSYG--IFVLLAILALG-----ILVILGWKISTKLGWK-KNRDLKLLYKSLIGSEN----- 782
gi | 17568305 | ref | NP_509836.1 | KAIKPSIAGGNSNAVIVDYDYFEINCMGTGTPPPVYQWFKDGNFYTHGDVDELLRVSRRAGEDDGEFHCATNAGDKLNSIEVQVNNAPKGLFFVWFLALLLIIIAVFLLCCKLRASNRLIKQ-KDIALNTIYETMIKHQAG----- 816
gi | 17568311 | ref | NP_509835.1 | EKVSPPGFLNNSRSIISAENGQMFINDCKVNGVTPDYTWKEDGYPTKGVIGNALHVSKAERDNGIFWCSATNRAGTLDYIEVKAAGASSS--FFWLFIFFAFVVG--IVVSLWKFLCQKDLKPSSELSNKLKRAIDEVQKY----- 822
gi | 17535101 | ref | NP_496017.1 | -----KNMALNITYSDLRDTCADAMPPELKNR----- 118
gi | 25146689 | ref | NP_741035.1 | -----NKSNIYDLPPLLDVTSVNEEPIVVKR----- 117
gi | 17535589 | ref | NP_496022.1 | -----ALRRGKRGSI TEQIETIPINKD----- 58
gi | 17563712 | ref | NP_506728.1 | -----
gi | 156104876 | ref | NP_002010.2 | GIILGPGSSTLFIERVTEDEGVYHCKATNQKGSVSSAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-SSSEIKT----- 792
gi | 114649218 | ref | XP_509605.2 | GIILGPGSSTLFIERVTEDEGVYHCKATNQKGSVSSAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-ASSEIKT----- 792
gi | 73993482 | ref | XP_534520.2 | GIILGPGSSTLFIERVTEDEGVYHCKATNQKGSVSSAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-SSSEIKT----- 792
gi | 194671875 | ref | XP_001249769.2 | GIILGPGSSTLFIERVTEDEAGVYHCKASNLKGSAAESSAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-SSSEIKR----- 815
gi | 34328180 | ref | NP_034358.2 | GIILGPGNSTLFIERVTEDEGVYHCKATNQKGAVERSAAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-SSSEVKT----- 793
gi | 11276093 | ref | NP_062179.1 | GIILGPGNSTLFIERVTEDEGVYHCKATNQKGVVSSAYLIVOGTSDKSNLELITLCTCVAATLFWLLLLLFIRKMKR-SSSEVKT----- 792
gi | 45383624 | ref | NP_989583.1 | GIILGPGRMLFIERVKEDEGLQCIATNKGVSVESTAYVIVOGTVERSNLELITLCTCVAATLFWLLLLLFIRKMKRPFYSETKIN----- 784
gi | 72535148 | ref | NP_001014829.2 | GIMLPPEEGTLHIDRIIVEDQGFYTCQATNQKGSMESSAYIVNVSSELSLEIPLACTCVAATLFWLLLLLFIRKMKRHPNSVNGKA----- 782
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



gi	17509593	ref	NP_492969.1	-----ESELISLTIKSLICDNHLEIDPENLKLSTENYIGSGFFGTVYRAKLRR-----RRNSFMIVAVKPEPNIHNIRQKILHBEELNVMCEMEKHPNLSLVG-VVTRQNV-----MIVTEYVEDGDLKFLKCKC--FDKDS--	201
gi	193203328	ref	NP_492970.2	-----PFDQVKAKIESLVNENHLEIDPNKLTISNEOSIGSGFFGVYRAKLRRKPTQEVSSHSIYFDVAVKESNNHDSQKLVYBELKVMCGMKRHPNLSLVG-VVIERNV-----MLIMEYVEGGDLLKFLKRSK--VVRVYQ--	182
gi	72001273	ref	NP_503375.2	-----EPEPNAIINKLKFDERFEDVKNKFSYVNLFLNGYVYKVKFERMHHKQKNG-LDSENSLEAVKRALRPEDPSEQQLMCEBELNVMCVVGHKPNLALIR-WIRTNETI-----LIVSEFVEKGDVLEYLRARRRFRNKDI--	210
gi	17535345	ref	NP_496130.1	-----KLELAPINREKIMVLYHYAAEVEINEEDLDISKGRPLGSGEFGIIRKGFRLRSKNSKN-EKEERLEVAVKPLPLNEYNQIQELIYDELKVMCAVGHKPNLALVGGIIFGGERK-----MIVSEFVENGDLLSFLRDNKRIYFTNDQ--	283
gi	17535347	ref	NP_496123.1	ECPPPELKLAPINDRIKVLYHYAAEVEINEEDLDISKGRPLGSGEFGIIRKGFRLRSKNSKN-EKEERLEVAVKPLPLNEYNQIQELIYDELKVMCAVGHKPNLALVGGIIFGGERK-----MIISELVENGDLLSFLRKNRNRFTIDQ--	279
gi	17535587	ref	NP_496025.1	-----IQPINERAELKLYNPAFEIQPNNDLWFRNK-LGKGFYIINKGLLTLRICTK--NEVVQVNVAVKMWDPDEKQDKLIYDEIKLMCAIGKHPNVAIVGAIKKEKVSGRBYNQAVSEFIEGGDLSVLRNSPYFQDEI--	273
gi	72000000	ref	NP_506771.2	-----IILDYQPLNERAEFLYNPAFEIHSHELDVFFEK-FGGQNGFVKYKALLLNQKTI--GEVVRMDVAVKPADSDKQDKLLDDEIKLMCAIGKHPNVAIVGAIKKEKVSGRBYNQAVSEFIEGGDLSVLRKYPYFPHDEL--	246
gi	32564384	ref	NP_497162.2	-----FLPNGKNSFN--FEPHSDLSLE-ILE-PIGSGHFGVVKVGGIL-----KGTUVVAVKSSSYRSISGQKVVVEBELKMSAIPKHPNVAIVGAIKKNLRHGEF--WILMEYIDGGNLRFLQRRNVEIDEL--	905
gi	17568305	ref	NP_509836.1	PLDPEMKDLPVEERLYLPLVNNDYBIDFVNLE-ILN-PIGSGHFGVVKVGGILGMAVPKSKIEKRLPFAVVKSSSTNPFNVELQKMMABELKVMCAIPKHPNVAIVGAIKKNLRHGEF--WILMEYIDGGNLRFLQRRNVEIDEL--	959
gi	17568311	ref	NP_509835.1	TVSEKINNLVPEERIDVLTYNEDYBIDLENLE-ILE-ILGSGQFGVVKVGGILNMAKSKN-FGFERLVAIKSSTDSNNMELQKMFBEELKLMCAIPKHPNVAIVGAIKKNLRHGEF--WILMEYIDGGNLRFLQRRNVEIDEL--	964
gi	17535101	ref	NP_496017.1	-----PLNDKLDVLYPKYKQPNNDLWFRNK-LGKGFYIINKGLLTLRICTK--NEVVQVNVAVKMWDPDEKQDKLIYDEIKLMCAIGKHPNVAIVGAIKKEKVSGRBYNQAVSEFIEGGDLSVLRNSPYFQDEI--	252
gi	25146689	ref	NP_741035.1	-----PINERLENLEDFRFEIDQAKLE-ISEDKLGSFGFGEVYCYLLSMRISNTETDILQKLVAVKQSNPTQENQEKMEDEETKLMCAIGRNPILALIGAVFANSQSARN--LIVSEFVECGDLLKFLKRSKIFKDEL--	252
gi	17535589	ref	NP_496022.1	-----DMCIRDNISIGNIPEVIEDPSNLK-FSS-VLENGYFCKIRRTLNINVAEKNNSKLVVVKR--PKNHEIKEMLENELTILRLIGRHPNVAIVGAIKKNLRHGEF--WILMEYIDGGNLRFLQRRNVEIDEL--	187
gi	17563712	ref	NP_506728.1	-----MISNNEVQLDP-SLKINLSYLIIEEKEIEIYYSRIRLQKMKSMGAHNSPFLSIKCALLRNDITQKMIQDELVLSLRSHSCTILAVLGGVYVREPML-----LIVSEHAEHGRLDQFLIDRKLNFNNQL--	124
gi	156104876	ref	NP_002010.2	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	934
gi	114649218	ref	XP_509605.2	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	934
gi	73993482	ref	XP_534520.2	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	934
gi	194671875	ref	XP_001249769.2	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	957
gi	34328180	ref	NP_034358.2	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	935
gi	11276093	ref	NP_062179.1	-----DVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	934
gi	45383624	ref	NP_989583.1	-----HVLSTIIMDPDEVPLDEQCERLPLDASKWEFARERLKLKLSLGRGAFGKVVQAAAFGIKKSPPCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	926
gi	72535148	ref	NP_001014829.2	-----EYLPILHPGEEPLVEHCDRLQYDPAKWEFFPRDRKLKPKLGRGAFGRVMQAAAVGTLGNSAETCRIVAVKMLKKEGATASEYKALMTLTKILTHIGHHLNVNLLGACTKQGGP-----LMVIVVEYCKYGNLSNLYLKSRRDLFFLNKDA	922



gi	17509593	ref	NP_492969.1	-----VKLDEKS-----LCKADLFFSTFQIANGMOYLERVPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-KITD	275
gi	193203328	ref	NP_492970.2	-----LEPDGDA-----LCMADLLSFAPQIANGMOYLERVPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	256
gi	72001273	ref	NP_503375.2	-----VCVEDNQRL-----LCPDLLLFAFQIANGMKFLGNVA-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-KITD	285
gi	17535345	ref	NP_496130.1	-----WILETEQDS-----LGLVDLLSFAPQIANGMEYLHIVPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	359
gi	17535347	ref	NP_496123.1	-----LAFEPKQNS-----LGLVDLVSFAPQIANGMEYLHIVPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	355
gi	17535587	ref	NP_496025.1	-----TSRRTGGQNVDA-----EVDFTIISTDLFSFAPQIANGMEYLASLPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	359
gi	72000000	ref	NP_506771.2	-----TSTDRTGGQMVNS-----DIFDELSTSDLSFAPQIANGMEYLAAPVRFVFWGKSGANFQFLKKSFPK-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	354
gi	32564384	ref	NP_497162.2	-----HDN-----FDENIPLIRPDFNSLSTDLVGLIAHQIANGMEWLGNVPL-----CVHGNLCCRKVLISKTKTIRIADYGVGD-----RQRKES--	980
gi	17568305	ref	NP_509836.1	-----VEDEHVPVDDLYLVPNVKKKIYKFDKLGEGTRLLVEDPDLACTSDLLSIGLQIANGMAWLADVP-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	1069
gi	17568311	ref	NP_509835.1	-----VEKGYIFLTLN-----VRENVPKREVEREQLLIDEFNSLCTDILLIGLQIANGMDWLANTP-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	1064
gi	17535101	ref	NP_496017.1	-----IEDTKFPPDYLTP-----IAAKRKNVFKNIDENSQYVYKESLSTLSTDLLSFGLIANGMOYLHIVPL-----MVRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	360
gi	25146689	ref	NP_741035.1	-----VYEKNGYLLP-----KSIRKLYMFMNEDDVIIEESLSDLSCTSDLLSFSYQIANGMEYLASLPL-----CVHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	354
gi	17535589	ref	NP_496022.1	-----VPEP-----EFSGLDEFVSDLSHFAFQIANGMEYLTHIP-----VHRDLALRNVLKKNVGLKIAFDGLARRHDKKDYRT-REVG	263
gi	17563712	ref	NP_506728.1	-----TCSDGNSQKVMNFN-----NGEQRISDDMQALCTLDLLSYGYOIAIAMKFLADSR-----CLHRALALRSIFVTRNKTIIRIGEFGLARINARKEYYIM-KSPQL	218
gi	156104876	ref	NP_002010.2	ALHMEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1059
gi	114649218	ref	XP_509605.2	ALHMEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1059
gi	73993482	ref	XP_534520.2	ALHMEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1059
gi	194671875	ref	XP_001249769.2	ALHVEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1082
gi	34328180	ref	NP_034358.2	ALHMEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1059
gi	11276093	ref	NP_062179.1	ALHMEPKKKEKMEPGLQCKKPRLDSVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1059
gi	45383624	ref	NP_989583.1	SLQGLMKDKKGIHPVECKKQRLASVTSSSEFSSGFGEDKSLSDVEE-EEDSDGFYKEPIIMEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1052
gi	72535148	ref	NP_001014829.2	-----VNKEEGVMKCGCKGRLLTSVSSRQNSASSGFSEER-----GEISEEDSYLSELSPLLEDLISYSFOVARGMEFLSRRK-----CIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVR--KGD	1040




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gi | 17509593 | ref | NP_492969.1 | ALPLKWLAPLCEFEFEK--TRFDSKSDVWSYGVCLYEIFSLGESPYNELDSNN--FAFLVLDLFLRKGNTLSEPEHCAP--KMYTFMKSQWNLIPERPSFTACTNFSTRQLNQLSNVQLFPEIE----- 397
gi | 193203328 | ref | NP_492970.2 | AIPLNWLAPLCEFEFSIN---KFDSDSDVWSYGVCLFELFLGEPYKELSN--IAYDLLADFLRKGNTLSEPEHCTL--EITYTFMKACWNLIPPEARPSFACIRFFQIRLNKLSEVCLIEFFIKTIEEISEANEQRCKYKWI--- 396
gi | 72001273 | ref | NP_503375.2 | GPPMKWLAPLCEFEFEQERENIKFDSKSDIWSYGVCLYEIFSLGSPVEGLDFR--PDYFQGLMKYVRDGNLPSPEHSD--KIYEFMQSCWNLNPKRPFVSECRDFQKLLQVSKP--FFENLLKEIQ---NEEKLQTSYDN 421
gi | 17535345 | ref | NP_496130.1 | PLPIHWMAPESID-----KLLFTQKSDVWSYGVCLYELFLGKSPYENVIKYDQDFYWKYVLSYLNKGRLLAQAHAHA--EIVNVMLKLDWLDMSRRTFFLDCIEFFEKELKTTSNY--FLDLTRKLRSETNQLRLSNWLSDEKHCDC 501
gi | 17535347 | ref | NP_496123.1 | PLPIHWMAPESID-----KLLFTQKSDVWSYGVCLYELFLGKSPYKVIKYDERSDYCKYVLAAYLNKGRLLAQAHAHA--EIVNVMLKLDWLDMSRRTFFLDCIEFFEKELKTTSNY--FLDLTRKLRSETNQLRLSNWLSDEKHCDC 497
gi | 17535587 | ref | NP_496025.1 | PLPIFWLAPLCEFDG---ISFTEMDSDVWSYGVCLYELFLGASPLYEEFQNF--FDPYIYVAFLESKRLSSPKYCRS--DIYVNFMLECWNDAKQRPRTKCKEYFFKNLIKRNVRH--TN----- 473
gi | 72000000 | ref | NP_506771.2 | PLPIFWLAPLCEFN---SKFTEMDSDVWSYGVCLYELFLGASPLYKLLHN---SPSYDVVHYLKKGYRLSAPRYCNA--EIVYFEMLYCNWIDATLRPKFTKCKDFCKSLTRKLLK--IESRLQMEEQQLNELSLA----- 480
gi | 32564384 | ref | NP_497162.2 | --SMRWMAPEAIEHQ---MPSKSDVWSYGVCLYELFLGSPYPTCVT-----NILKHIKNGSRNLQPEYCPSS--ALYDLMLQLCWRAPPQDRPKFSLCSLIEKQLKDLTISF----- 1083
gi | 17568305 | ref | NP_509836.1 | PLPVWMPLECEIEF---KFTQKSDVWSYGVCLYEIFLGGTPVPCNDT-----FNVIEFIRNGNRNKPQPEYCHD--EIVELMKVCQWPNKDRPTFNDCTITFFENMRDSSSFLERVENMLHEMQEQSKLDDWIQDSRPDVF 1204
gi | 17568311 | ref | NP_509835.1 | PLPVWMPLEAITDL---TFTQKSDVWSYGVCLYEIFLGGTPVPCPN-----FSLVEYIKTGNINKRPSNCHK--DVYKIMKMCWQASPDPRPTFAECIKLFRNHIQYFASKLLQIEKDLCEKNNQKQFYVWVQKPTQLFF 1199
gi | 17535101 | ref | NP_496017.1 | PVPVRWMSPEAFDTM---KFTKSDVWSYGVCLYEIFLGLQLPVDPVPS-----EIRIYEMHSGRRCPOPHCHV--ELYDMLKLCWHEKPELRPNFNCVYFICGHMKKSASKLLENVDEMLRVEAENQRKLEDWIRVERSEV 495
gi | 25146689 | ref | NP_741035.1 | PMPARWMAPEVMREG---KCTEKSDVWSYGVSLYEMFLGELPYSNVSN---SDVFEHVYVQGNLQMPQYCHP--KMYDRMKQFNFNDFATFRPFSKCVCEFFEEHLSVSATNLLQIQKTLKSAERQSKLEDWIRRD----- 484
gi | 17535589 | ref | NP_496022.1 | PVPLYWMAPESSYNEL---IFNEKTDVWSYGVCLYELFLGSDPYENVKTLF---DHLMEYLEKGNRLSKPKVIDSPYEIFDFMKICWNFKPPTPCFSDCAOFFKSHLQEFPPALLEQQLSEKLEENIRKI----- 388
gi | 17563712 | ref | NP_506728.1 | PLAPEVMAPESSSEDK---KFTKSEVRSFAVCLGIFQLGVPPHEAVNA---VYCGQDIERKLPLOYCHP--DMYSFLSSCWNFDPEARTYSKCVCEFFDDHFSENQIMIGKQIIEKLSAKNYQDKLKI--SENRF----- 349
gi | 156104876 | ref | NP_002010.2 | RLPLKWMAPESIFDK---IYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1195
gi | 114649218 | ref | XP_509605.2 | RLPLKWMAPESIFDK---IYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1195
gi | 73993482 | ref | XP_534520.2 | RLPLKWMAPESIFDK---IYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1195
gi | 194671875 | ref | XP_001249769.2 | RLPLKWMAPESIFDK---IYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1218
gi | 34328180 | ref | NP_034358.2 | RLPLKWMAPESIFDK---VYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1195
gi | 11276093 | ref | NP_062179.1 | RLPLKWMAPESIFDK---VYSTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1195
gi | 45383624 | ref | NP_989583.1 | RLPLKWMAPESIFDK---IYNTKSDVWSYGVLLWEIFSLGGSPYVQVMD---EDFCSRLREGMRMRAPYATP--EIIYQIMLDLQWHRDPKERPRFAELVEKLGDLLOANVQDGDYIPLNAILTGNSTFTYSPAFSEDFFK 1184
gi | 72535148 | ref | NP_001014829.2 | RLPLKWMAPESIFDK---VFNTQSDVWSYGVLLWEIFSLGASPYVGLNMD---EFECRRLKHGTRMCSPOYSYTF--EIVSIMGACWENNEDRPSFTLVLVEILGDLLQCVQDGDYIPLNAFKSG-----EGHTITHTLNQ 1170
.....1210.....1220.....1230.....1240.....1250.....1260.....1270.....1280.....1290.....1300.....1310.....1320.....1330.....1340.....1350

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gi | 17509593 | ref | NP_492969.1 | ----- 397
gi | 193203328 | ref | NP_492970.2 | ----- 396
gi | 72001273 | ref | NP_503375.2 | ----- 421
gi | 17535345 | ref | NP_496130.1 | ----- 502
gi | 17535347 | ref | NP_496123.1 | ----- 498
gi | 17535587 | ref | NP_496025.1 | ----- 473
gi | 72000000 | ref | NP_506771.2 | ----- 480
gi | 32564384 | ref | NP_497162.2 | ----- 1083
gi | 17568305 | ref | NP_509836.1 | NVLFGKSPKKQKEERVLIVESHA----- 1227
gi | 17568311 | ref | NP_509835.1 | ----- 1199
gi | 17535101 | ref | NP_496017.1 | ----- 495
gi | 25146689 | ref | NP_741035.1 | ----- 484
gi | 17535589 | ref | NP_496022.1 | ----- 388
gi | 17563712 | ref | NP_506728.1 | ----- 349
gi | 156104876 | ref | NP_002010.2 | ESISAPKFNSSGSDVRYVNAFKFMSLERIKITFEELLPNATSMFDYQGDSSILLASPMKRFWTID--SKPKASLKIDLRVTSKSKESGLSDVSRPS--FCHSSCGHVSEGKRRFTYDHAELERKIAACSPPPDYNVSVLYSTPPI 1338
gi | 114649218 | ref | XP_509605.2 | ESISAPKFNSSGSDVRYVNAFKFMSLERIKITFEELLPNATSMFDYQGDSSILLASPMKRFWTID--SKPKASLKIDLRVTSKSKESGLSDVSRPS--FCHSSCGHVSEGKRRFTYDHAELERKIAACSPPPDYNVSVLYSTPPI 1338
gi | 73993482 | ref | XP_534520.2 | EDISAPKFNSSGSDNVRYVNAFNFLSLEKLIKFEELSPTNTSIFDDYQVDSILLASPLLKRFWTAE--SKPKASLKIDLRVTSKSKESGLSDLRTP--FCHSRGHLNRGRRRFTYDHSLEKRIIACSPPPDYNVSVLYSTPPV 1337
gi | 194671875 | ref | XP_001249769.2 | EDISAPKFNSSGSDNVRYVNAFNFLSLEKLIKFEELSPTNTSIFDDYQVDSILLASPLLKRFWTAE--SKPKAPLN--LRVTSKSKESGLSDLRTP--FCHASGHLGAGHRRFTYDHSLEKRIIACSPPPDYNVSVLYSTPPV 1359
gi | 34328180 | ref | NP_034358.2 | DGFADPHFHSGSDVRYVNAFKFMSLERIKITFEELSPNATSMFEDYQLDTSILLGSPLLKRFWTIE--TKPKASMKIDLRITSKSKESGLSDLRPSP--FCFSSCGHIR--PVQ--DDESELG--KE--CCSPPPDYNVSVLYSSPPA 1333
gi | 11276093 | ref | NP_062179.1 | DGFADPHFHSGSDVRYVNAFKFMSLERIKITFEELSPNATSMFEDYVHLDTSILLGSPLLKRFWTIE--TKPKASMKIDLRITSKSKESGLSDLRPSP--FCFSSCGHIR--PVRDEDEDPELG--KE--CCSPPPDYNVSVLYSSPPA 1336
gi | 45383624 | ref | NP_989583.1 | EKFPVPSNCRSTERARYINTFIKIPQRIKIFBELPKEKLVFNDOADSGMVLASEELKRFWTIG--SKQKWLFG--MKGVSRSKESGLSGITKPRFCSFSCDQLSESKRRYTYGNVLEKMKACHSPPPDYSVVHYSPSI 1327
gi | 72535148 | ref | NP_001014829.2 | RDISQKALGNS---YISPGKIKAMSTFEDLHKEITPDEQSDSGMVLPSSEELIKVWNTDRFKTKNIKFFSRGQSPRLSAPCCSDQI-----ALPPPHYEGDLLVPSF----- 1272
.....1360.....1370.....1380.....1390.....1400.....1410.....1420.....1430.....1440.....1450.....1460.....1470.....1480.....1490.....

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