

gi | 282165714 | ref | NP_001129575.2 | MRSEGAAPGP-----AAPLPGA-----LSLLGALLGKVIIEGHGVDNIQRFSSLLPVPVSYHILRAEISFFLKEANODLLRNSSSLQA 79
gi | 114647787 | ref | XP_522557.2 | MERLHEDLGKSIQEEGMASVPLSWRKHSMLVYVAKGRCLTKMCGCCTDFF-----LYGDRELRALRYPGGDFNPKLQQLLGGVIEGHGVDNIQRFSSLLPVPVSYHILRAEISFFLKEANODLLRNSSSLQA 129
gi | 73995113 | ref | XP_543360.2 | MATMLFAKLN-----FRNLTEGRGIDNVPFRSSLLPVPVSYHILGAETSFFLKEANODVLRNSSLH 64
gi | 149254600 | ref | XP_984653.2 | MIVGAHMVIQGVDFVEWAVPGAGSAGPRLPEKESCPDPFRSSRRRSAAAGGPPGHGATGAVPGLAMDGVTAATMRSEGAAPRRARARYGALSIVLATTLLGQVTEESRGVMDNIQRFSSLLPVPVSYHILRAEISFFLKEANODPLRNASLQ 150
gi | 118098453 | ref | XP_415100.2 | -----MAGAAGGGGRCPE-----QAVGLLLGLLGCVAESRGVLDSDNQRFSSSPTLPVSYRIFSAETSFFLKEANODFRMRNSSLQ 77
gi | 292612168 | ref | XP_002661322.1 | -----MGHIKDIPIYKDERLFP-----YVVDADNINEMDSQEILDAKPSIPYPLFLPVYIQVWDAD-YFLKKEAGQDIMRNSSMS 78



gi | 282165714 | ref | NP_001129575.2 | RVESFFTYKTRPPVPLNASYGFVSEKVVPLDMLTSLNFLGPTN-KFSFDWMLKAHILRDKVYLSRPKVOVLFHIMGRDWD--DHGAGEKLPCLRVFAFRETRVVRGSCRLKGDGLGCAVALELLSSWFSAPTVGAGRKKSMDOPECTPV 226
gi | 114647787 | ref | XP_522557.2 | RVESFFTYKTRPPVPLNASYGFVSEKVVPLDMLTSLNFLGPTN-KFSFDWMLKAHILRDKVYLSRPKVOVLFHIVGRDWD--DRSAGEKLPCLRVFAFRETRVVRGSCRLQDGLGCAVALELLSSWFSPTTVVAGRKKSMDOPECTPV 276
gi | 73995113 | ref | XP_543360.2 | RVESFFTYKANRPPVPLNASYGFVSEKVVPLDMLTSLNFLGPTN-KLSSLWMLRAHILRDKVYLSRPKVOVLFHLLGRDWA--AQPGERLPCRLRFAFRETRVVRGACRLQCALGCAVALELLAAWFPGPTTVVAGRKRKAPGPFESPV 211
gi | 149254600 | ref | XP_984653.2 | RVESFFIYKAKPPVPLNVSYGPFVSAEKVPLDMLNPNFLGPTN-KFPFDWRLKAVILQEKVYLSHPKVOVLFHIVGRDWD--DHR-DEKLPCLRVFAFRDREVRGSCRLGGLGCAVALEMLPGWFSPPAVVSGRRRPAERPEGSPV 296
gi | 118098453 | ref | XP_415100.2 | RVESFFPYKAKRPPVPLNASYGFVSEKVVPLDMLTSLNFLGPTN-KFTYNWKLKAFIMSDKIYPSKPKVOVLFYIVGRDWD--DYSTTERLPCLRVFAFRETRVVRGSCRLKGDGLGCAVALELLPGWFPPTTVVTRKKPLDLSGESPV 224
gi | 292612168 | ref | XP_002661322.1 | HTCPFVVLKARLQRLPVINASYGQSLTTRREIPLDLVQSVQLFRPSPVPSLNRVQSVLTRWVYSLSKRVVLFVAVGRDWRGKGTKDELPCVTVYAFWDTQVVRGSCVIGNDHGTCAEVEDAPAGWENQVEGSSSRER-LGPTQNPV 227



gi | 282165714 | ref | NP_001129575.2 | ELYYTVHPGNERGDCAGG-----DFRKGNAIRPGKDGLEETSHLQRIQITVGLYRAQD-SAQLSELRLDGNVVIWLPSPRPVKEGVVTAAVTTISNSNSVDLPIILRAKVKKGVNII SAOTREPRQWGVKEVSGGKHVTAIVACQRLG 368
gi | 114647787 | ref | XP_522557.2 | ELYYTVHPGNERGDCAGG-----DFRKGNAIRPGKDGLEETSHLQRIQITVGLYRAQD-SAQLSELRLDGNVVIWLPSPRPVKEGVVTAAVTTISNSNSVDLPIILRAKVKKGVNII SAOTREPRQWGVKEVSGGKHVTAIVACQRLG 418
gi | 73995113 | ref | XP_543360.2 | ELYYTVHPGARGDCAGGGG-----DVRKGNAIRPGKDGLEAVPHLQRIQITVGLYRAQD-STQLSELRLDGNVVIWLPSPRPVKEGVVTAASNTVDLPIILRAKVKKGVNII LGTQTEPRQWGVKEVSGGKHVTAIVACQRLG 355
gi | 149254600 | ref | XP_984653.2 | ELYYAVQPGDERGDCAGG-----DTRKDNAIRPGKDGQGRSHLQRIQITVGLYRAQD-STQLSELRLDGNVVIWLPSPRPVKEGVVTAASNTVDHPIILRAKVKKGVNII LGTQTEPRQWGVKEVSGGKHVTAIVACQRLG 438
gi | 118098453 | ref | XP_415100.2 | ELYYTVQPGDEKGECTAE-----DVRKGNAIRPGKDGMDLMSHLQRIQISLIRGQGE-TSQTLELRDGNVVIWLPSPRPVKEGVVNVVTTIANNSTVDPIILRAKVKKGVNII NAKTIDPQWGVKEVSGGKHVTAIVACQRLG 366
gi | 292612168 | ref | XP_002661322.1 | ELYYQARP-SAYGPCIASGEEKRWDLGGNAGCQPAEYMP--VPMORIGSVRLLVQKQAMPVSVLRRLREAVVIOISKPLKKTDIASFVYVYKNSANLDTSLRAMVKKGVSFQATPNTLLWDTITLDGPDG--VGVICQRKS 371



gi | 282165714 | ref | NP_001129575.2 | PPRNRSSSLFNEVVMNFIASFFSLSTQPIITNOVEYP--RKGFTDIAVSEIFVSQKDLVGLVPLAMDTEILNTAILTGTIVAMPKIVVSVSEENS AVMDISESVECKSTDEDVIKVSERCDYIFVNGKEIKGMDAVVNFYQYLSA 515
gi | 114647787 | ref | XP_522557.2 | PPRNRSSSLFNEVVMNFIASFFSLSTQPIITNOVEYP--RKGFTDIAVSEIFVSQKDLVGLVPLAMDTEILNTAILTGTIVAMPKIVVSVSEENS AVMDISESVECKSTDEDVIKVSERCDYIFVNGKEIKGMDAVVNFYQYLSA 565
gi | 73995113 | ref | XP_543360.2 | STRNRSSSLFSEVMNFIASFFSLSTQPIA NOVEYP--RRATDIAVSEIFISOKDLAVIPLAMDTEILNTAILTGTIVVLPKIVVSVSEENS AVMDISESVECKSTDEDVIKVSERCDYVFNNGKEMGKGDVAVVNFYQYLSA 502
gi | 149254600 | ref | XP_984653.2 | PQRNRSSSLFSEVMNFIASFFSLSTQPIITNOVEYP--RKGANDIAVSEIFISOKDLVAVIPLAMDTEILNTAILTGTIVAMPKIVVSVSEENS TLRIDISELVECKSTDENVIKVSERCDYVFNNGKEMGKGDVAVVNFYQYLSA 585
gi | 118098453 | ref | XP_415100.2 | PSTRNRSSSLFNEVVMDFEIASFFSLSTQPIITNOVEYP--RKGFTDITLSEIFISOKDLVGLVPLAMDTEIVNTAILTGTIVAVPKIVVSEENS AVTDISESVECKSSDEDVIKVSERCDYVFNNGKEMGKGDVAVVNFYQYLSA 513
gi | 292612168 | ref | XP_002661322.1 | TANVKR-LSKLQAVLQDFEVEDVSSQSEIQMIKWELLPDEVKMMGASEGMRIYITQDFVGLAPLVMDKELLNTAVLTGKRVTVAVRTI AVEQSGVTDVDFDQSTDENVVKVSDRCDYVFNNGKESQGRKRVNVLVNFYQYLSA 520



gi | 282165714 | ref | NP_001129575.2 | PLCVTVVWVPRPLQIEVSDTELSQIKGWRVPIVINKRPTRESEDEDEEERRRGCCALQYQHATVVRVLTQFVSEGAGPWGQPNVLLSPNWQFDITHLVADFMLKEEPHVALQDSRVLVGREVGMTIIQVLSPLSDSILAERTIVVLDKVV 665
gi | 114647787 | ref | XP_522557.2 | PLRVTVVWVPRPLQIEVSDTELSQIKGWRVPIVINKRPTRESEDEDEEERRRGCCALQYQHATVVRVLTQFVSEGAGPWGQPNVLLSPNWQFDITHLVADFMLKEEPHVALQDSRVLVGREVGMTIIQVLSPLSDSILAERTIVVLDKVV 715
gi | 73995113 | ref | XP_543360.2 | SLHITVWVPRPLQIEVSDTELSQIKGWRVPIVSSKRPTRSEDEDEEERRRGCCALQYQHATVVRVLTQFVSEGAGPWGQPSHLLSPDWQFDITHLVADFMLKEEPHVALQDSRVLVGREVGMTIIQVLSPLSDSILAERTIVVLDKVV 652
gi | 149254600 | ref | XP_984653.2 | PLHVTVWVPRPLQIEVSDTELSQIKGWRVPIVAKRPTRESEDEDEEERKGRGCLQYQHATVVRVLTQFVSEGAGPWGQSLHLLSPDWQFDITHLVADFMLKEEPHVALQDSRVLVGREVGMTIIQVLSPLSDSILAERTIVVLDKVV 735
gi | 118098453 | ref | XP_415100.2 | PLQITVWVPRPLQIEVSDTELSQIKGWRVPIVINKRPTRESEDEDEERKGRGCLQYQHATVVRVLTQFVAEDSSPWGQSLVLLSPDWQFDITDLVADFMLKEEPHVALQDSRVLVGREVGMTIIQVLSPLSDSILAERTIVVLDKVV 663
gi | 292612168 | ref | XP_002661322.1 | QLEMKVWVPRPLQIEVSDTELSQIKGWRVPIVSSKRSKAGVNS--SEERKRGCCMLQYQHATVVRVLTQFVAEQSDPREPOAFLGSDWQVDTLRLVRYFLKVEDPNVRLQAGRVLSDQVGTIIQVLSPLSDSILAERTIVVLEERV 667



gi | 282165714 | ref | NP_001129575.2 | SVTDLAIQLVAGLSVALYPAENSKAVTAVVTAEEVLRTPKQEA VFTWLFQSDGSVTPLDIYDTKDFSLAATSQDEAVSVVPPRSPRWPVVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGVGNVVRKFGON----DADSSPGG 810
gi | 114647787 | ref | XP_522557.2 | SVTDLAIQLVAGLSVALYPAENSKAVTAVVTAEEVLRTPKQEA VFTWLFQSDGSVTPLDIYDTKDFSLAATSQDEAVSVVPPRSPRWPVVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGVGNVVRKFGON----DADSSPGR 860
gi | 73995113 | ref | XP_543360.2 | SVTDLAIQLVAGLSVTLHPSTENSKAITAVVTAEBELLRTPKQEA VFTWLFQSDGSA TPLDIYDTKDFSLAATSQDEAVSVVPPRSPRWPVVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGVGSVVRKFGOG----NADSSRGA 797
gi | 149254600 | ref | XP_984653.2 | SVTDLAVQVAGLSVTLHPSTENSKAITAVVTAEBELLRTPKQEA IIS T WLFQSDGSLTATSLNEAVVTPQARS PRWPVVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGVGHVGRKFGWD----DADSSQTG 880
gi | 118098453 | ref | XP_415100.2 | TITDGLVQLVAGLSVTLHPSTENSKAITAVVTAEBELLRTPKQEA VFTWLFQSDGSVTPLDIYDTKDFSLAATSQDEAVSVVPPRSPRWPVVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGVGNVVRKFGON----DADSSRGA 808
gi | 292612168 | ref | XP_002661322.1 | TITELGLQLISGLINLQLNIGSNRVISATAITQEVLSNPKQEA VLSMWFQSDGSLTPLDIYDPAHRLVITSLDGEVLSVQDSS--MIVVAEAGEGQGLIRVDMTIAEACQSKRKSILAVGSGSLTVKFGANRRFPENSVNNG 813



