```
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gi|4504615|ref|NP_000587.1|      MSEVPVARVWLVLLLLTVQVG----VTAGA--PWQCAPCSAEKLALCPPVSASCSEVTRSAGCGCCPMCALPLGAACGVATARCARGLSCRALPGEQQPLHALTRGQGACVQESDASAP-----------HAAEAGSPESP----ESTEI   129
gi|114613252|ref|XP_519083.2|     ----------------------------------------------------------------MCALPLGAACGVATARCARGLSCRALPGEQQPLHALTRGQGACVQESDASAP-----------RAAEAGSPESP----ESTEI    68
gi|34328135|ref|NP_032367.2|      MPEFLTVVSWPFLILLSFQIG----VAAGAPQPWHCAPCTAERLGLCPPVPASCPEISRPAGCGCCPTCALPMGAACGVATARCAQGLSCRALPGEPRPLHALTRGQGACVPEPAAPATSTLSSSQHEEAKAAVVSADELS----ESPEM   142
gi|6981080|ref|NP_037276.1|       MPEFLTVVSWPFLILLSFQVR----VVAGAPQPWHCAPCTAERLELCPPVPASCPEISRPAGCGCCPTCALPLGAACGVATARCAQGLSCRALPGEPRPLHALTRGQGACVLEPAAPATSSLSGSQHEEAKAAVASEDELA----ESPEM   142
gi|73978457|ref|XP_537927.2|      MPVAPAARAWPPLLLLAVQLG----ATAGTPQPWHCAPCTPEKLALCPPVPASCAETALPAGCGCCPMCALPQDAPCGVATARCATGLSCRAAPGEERPLHALIRGRGVCVP------------------TDPAADAKESS----ESSEI   124
gi|47604926|ref|NP_001001294.1|  -MRTLLSRCWLPPLLLPALLGPL-LVAAASLQPLHCAPCTQEKLALCPPVEPGCPETARQPGCGCCQTCALGPGQPCGVYTTRCRHGLRCHVPSGETRPLSALIQGQGKCLPASEAGGTR----------SAEPAESTEPEDLPLESSEI   138
gi|40254671|ref|NP_775390.2|      MNRLLLNFFWVAAFSALLAAPGLRASPVVGQEPIRCAPCSPERLAECPAVDAGCEEVLREPGCGCCLACALKRGDPCGIYTAPCGSGLRCLPKPGEARPLHALTRGQAVCTESP-----------------EPNHSQSETAPDHPESHNG   133
gi|148356248|ref|NP_001091727.1| MRAVCVCVLLVCVLVCVLDA-----SPVPAPEPIRCAPCSADQLSACPAVSPGCAEVVRDPGCGCCSSCALRSGDSCGVHTANCGAGLRCVPRAGDPRPLHSLTRGHAVCVEH------------------HPTEEDTELTSE-PGSLHH   126
                                 1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
```

```
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gi|4504615|ref|NP_000587.1|      TEEELLDNFHLMAPSEEDHSILWDAISTYDGSKALHVTNIKKWKE--PCRIELYRVVESLAKAQETSGEEISKFYLPNCNKNGFYHSRQCETSMDGEAGLCWCVYPWNGKRIPGSPEIRGDPNCQIYFNVQN   259
gi|114613252|ref|XP_519083.2|    TEEELLDNFHLMAPSEEDHSILWDAISTYDGSKALHVTNIKKWKE--PCRIELYRVVESLGKAQETSGEEISKFYLPNCNKNGFYHSRQCETSMDGEAGLCWCVYPWNGKRIPGSPEIRGDPNCQMYFNVQN   198
gi|34328135|ref|NP_032367.2|      TEEQLLDSFHLMAPSREDQPILWNAISTYSSMRAREIADLKKWKE--PCQRELYKVLERLAAAQQKAGDEIYKFYLPNCNKNGFYHSKQCETSLDGEAGLCWCVYPWSGKKIPGSLETRGDPNCHQYFNVHN   272
gi|6981080|ref|NP_037276.1|       TEEQLLDSFHLMAPSREDQPILWNAISTYSSMRAREITDLKKWKE--PCQRELYKVLERLAAAQQKAGDEIYKFYLPNCNKNGFYHSKQCETSLDGEAGLCWCVYPWSGKKIPGSLETRGDPNCHQYFNVQN   272
gi|73978457|ref|XP_537927.2|      TQEQLLENFHLMVPSEEDTPILWNAVRNYKTVRS---DDSDKLKE--PCRRELHEVLARLAEEQASR--QLYSFYLPNCNKNGFYHSRQCKTAMDGQRGLCWCVYPWNGERIPGSVEVRGDPNCGQYFTGHS   249
gi|47604926|ref|NP_001001294.1|  TQDQMLN-YQLMFPISQDKSIPWNFFTVYENMKAKRISEHKKWKEQGPCQKELYRALYKLAKAQQRSGGDIYKFYLPNCNKNGFYHSKQCETSLDGDSAGCWCVYPKNGIKIPGSPEVKGDSDCQQYLRSEE   269
gi|40254671|ref|NP_775390.2|      ATAVNEGSSTVFVTGHGKPFDPR-IITNKESMKAKVNAIRKKLVEQGPCHIELQTALDKITKSQQKLGDKLTRFYLPNCDKHGLYKIKQCESSLDGQRGKCWCVSSWNGKKIPGSSDLPADAECPEELNH--   262
gi|148356248|ref|NP_001091727.1| LLSLN------------RALDPRDTAEAQESIKSQLNAIRQKLIQQGPCHTELLASLDVITESQQALGEKFTSFYLPNCDKHGFYKAKQCVSSLVAQAPRCWCVSSWNGKRLAGTADVEADTPCPQELTH--   244
                                 .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280..
```