

gi | 54792096 | ref | NP\_004439.2 | -----MELAAALCRWGLLLALLPPGAASFOVCTGDMKRLRPAPEPEHLDMRLRHLRYOGCQVVOGNGLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLNN-TPVPTGASPPGGLRELOLR 150  
gi | 50978988 | ref | NP\_001003217.1 | -----MELAAWCRWGLLLALLPSGAAGFOVCTGDMKRLRPAPEPEHLDMRLRHLRYOGCQVVOGNGLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLEG-GIPAPGAAGGGLRELOLR 150  
gi | 54873610 | ref | NP\_001003817.1 | -----MELAAWCRWGLLLALLPSGAAGFOVCTGDMKRLRPAPEPEHLDMRLRHLRYOGCQVVOGNGLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
gi | 77020289 | ref | NP\_058699.2 | -----MIIMELAAWCRWGLLLALLPPGIAGFOVCTGDMKRLRPAPEPEHLDMRLRHLRYOGCQVVOGNGLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDQDVAASITPGRTPPEGLRELOLR 150  
gi | 113206114 | ref | NP\_001038126.1 | MIAARGRPLCPALLLPALLAALCP-AAAAEVCVCTGDMKRLRPAPEPEHLDMRLRHLRYOGCQVVOGNGLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
gi | 60302679 | ref | NP\_956413.2 | -----MEADRSFGLAWVLLLLGITAAATREVCLGTDMLKALPSSLENHYEMLRLLYTGCOVHGNLEITHLQGNPDLSEFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 54792096 | ref | NP\_004439.2 | SLTEILKGGVLIQRPOLCYQDILWVKDFVFRKNNQL-ALTLIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICGTCGCAKCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
gi | 50978988 | ref | NP\_001003217.1 | SLTEILKGGVLIQRPOLCHODILWVKDFVFRKNNQL-ALTLIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICGTCGCAKCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
gi | 54873610 | ref | NP\_001003817.1 | SLTEILKGGVLIQRPOLCYQDMLWVKDFVFRKNNQL-APVDMIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICGTCGCAKCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
gi | 77020289 | ref | NP\_058699.2 | SLTEILKGGVLIQRPOLCYQDMLWVKDFVFRKNNQL-APVDMIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICGTCGCAKCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
gi | 113206114 | ref | NP\_001038126.1 | QLTTEILKGGVHIEGNPLQCFEETILWADIFHRHNELRSETRVETRTRIPDGRALCAEGHCWGESPDCCOTLINSICHG-CPRCKGTKPTDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
gi | 60302679 | ref | NP\_956413.2 | SLTEILKGGVITWGNPLQCFPRININWEDIVSVQVQNK-PLHLQDTPKN--CPRCSSACKSGGWCWGEKDDCOTLINSICHG-CPRCKGTKPTDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYVNDTFESMNPPEGRYTFG 300  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 54792096 | ref | NP\_004439.2 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
gi | 50978988 | ref | NP\_001003217.1 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
gi | 54873610 | ref | NP\_001003817.1 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
gi | 77020289 | ref | NP\_058699.2 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
gi | 113206114 | ref | NP\_001038126.1 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
gi | 60302679 | ref | NP\_956413.2 | ASCVITACPNYLSIDVGSCLVCPHNEVTAEDG---TORCEKCSKPCARVCYGLGMEHLREVRVAVTSANIDIEFAGCKKIFGSLAFLPESEFDGDPASNTAPLOPEQLVFEITGELYIISAWPDSLPDLSVFNQVIRGRILHN 450  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 54792096 | ref | NP\_004439.2 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
gi | 50978988 | ref | NP\_001003217.1 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
gi | 54873610 | ref | NP\_001003817.1 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
gi | 77020289 | ref | NP\_058699.2 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
gi | 113206114 | ref | NP\_001038126.1 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
gi | 60302679 | ref | NP\_956413.2 | GAYSLTLQGLGISWGLRLSRLRELGSLALIHNRHLVCFVHVPVWDLFR-NPHOALLHNSRPEEBCVGEGLACYP-CAHGHCWGGPPTQCVNCSQFLRGOECVBECEVRLQGLPREYVVDKRYCLPCHSECOFONGSVICFGSEADQVAC 600  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 54792096 | ref | NP\_004439.2 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
gi | 50978988 | ref | NP\_001003217.1 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
gi | 54873610 | ref | NP\_001003817.1 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
gi | 77020289 | ref | NP\_058699.2 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
gi | 113206114 | ref | NP\_001038126.1 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
gi | 60302679 | ref | NP\_956413.2 | AHYKDPFCVAVCPGSGVKKPDLSPMPWKVPEDEEGACQPCPINCSTHSQVLDLDRGCPAEQASPLTSLIISAVVGIILLVVLVGVVFGILIKRRRQKIRKYIMRRLLOETELVEPLTPSGAMPNQAOMRILKETELRKKVVLGSGAFGVYK 750  
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi | 54792096 | ref | NP\_004439.2 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
gi | 50978988 | ref | NP\_001003217.1 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
gi | 54873610 | ref | NP\_001003817.1 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
gi | 77020289 | ref | NP\_058699.2 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
gi | 113206114 | ref | NP\_001038126.1 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
gi | 60302679 | ref | NP\_956413.2 | IWIPDGENVKIPVAIKVIRENTSPKANKKILDEAYVMAGVSPYVSRLLGICLSTVQLVTLQMPYGCLLDHYREHRGRIGSDLLNWCVOIAGKMSYLEEVLVHRDLAARNVVKSPNHVKIIDFGLARLLDIDETEHADGGKVPK 900  
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



