

gi | 54792096 | ref | NP\_004439.2 | -----MELAAALCRWGLLLALLPPGAASFOVCTGDMKRLRPAPEPHLDMLRHLRYOGCQVVOGQLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLNN-TPVPTGASPPGGLRELOLR 150  
gi | 50978988 | ref | NP\_001003217.1 | -----MELAAWCRWGLLLALLPSGAAGFOVCTGDMKRLRPAPEPHLDMLRHLRYOGCQVVOGQLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLEG-GTPAPGAAGGGLRELOLR 150  
gi | 54873610 | ref | NP\_001003817.1 | -----MELAAWCRWGLLLALLPSGAAGFOVCTGDMKRLRPAPEPHLDMLRHLRYOGCQVVOGQLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
gi | 77020289 | ref | NP\_058699.2 | -----MIIMELAAWCRWGLLLALLPPGIAGFOVCTGDMKRLRPAPEPHLDMLRHLRYOGCQVVOGQLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDQDVAASITPGRTPPEGLRELOLR 150  
gi | 113206114 | ref | NP\_001038126.1 | MIAARGRPLCPALLLPALLAALCP-AAAAEVCTGDMKRLRPAPEPHLDMLRHLRYOGCQVVOGQLELTYLPANASLSFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
gi | 60302679 | ref | NP\_956413.2 | -----MEADRSFGLAWVLLLLGITAAATREVCLGTDMLKRALPSLEHNYEMLRLLYTGCOVHGNLEITHLQGNPDLSEFLQDIEVOGVVLIHAHQVQVPLQRLRVRGTLFEDNYALAVLDNGDPLDNTVTAAPGRTPPEGLRELOLR 150  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 54792096 | ref | NP\_004439.2 | SLTEILKGGVLIQRNPOLCYQDILWVKDFVFRKNNQL-ALTLIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICTGCAKRCCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
gi | 50978988 | ref | NP\_001003217.1 | SLTEILKGGVLIQRNPOLCYQDILWVKDFVFRKNNQL-ALTLIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICTGCAKRCCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
gi | 54873610 | ref | NP\_001003817.1 | SLTEILKGGVLIQRNPOLCYQDILWVKDFVFRKNNQL-APVDMIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICTGCAKRCCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
gi | 77020289 | ref | NP\_058699.2 | SLTEILKGGVLIQRNPOLCYQDILWVKDFVFRKNNQL-APVDMIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICTGCAKRCCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
gi | 113206114 | ref | NP\_001038126.1 | QLTTEILKGGVHIENPQLCFEETILWADIFHRHNELRSETRVETRTRIPDCGRALCAEGHCWGESPDCCOTLINSICHG-CPRCKGTKPTDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
gi | 60302679 | ref | NP\_956413.2 | SLTEILKGGVLIQRNPOLCYQDILWVKDFVFRKNNQL-ALTLIDINRFRACPPCAPCKDNHCWGESPEDCQILGTICTGCAKRCCKGRPLDCCHEQCAAGCTGPKHSDCLACLFHNSGICELHCPALVIYNNDFESMNPPEGRYTFG 300  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



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



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



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



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



