

gi | 124487175 | ref | NP\_001074642.1 | MAASQGGGNSGGGCGGGGGAGAGGGGGGGGGGGAGAGGGGGCGGTVAVVPIPVPTLFGQPPNPGPWHSGSLOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 109510544 | ref | XP\_346282.3 | MAASQGGGNSGGGCGGGGGAGAGGGGGGGGGGGAGAGGGGGCGGTVAVVPIPVPTLFGQPPNPGPWHSGSLOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 154091020 | ref | NP\_065922.3 | MAASQGGGNSGGGCGGGGGAGAGGGGGGGGGGGAGAGGGGGCGGTVAVVPIPVPTLFGQPPNPGPWHSGSLOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 74008142 | ref | XP\_549199.2 | MAASQGGGNSGGGCGGGGGAGAGGGGGGGGGGGAGAGGGGGCGGTVAVVPIPVPTLFGQPPNPGPWHSGSLOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 119920154 | ref | XP\_618181.3 | MAASQGGGNSGGGCGGGGGAGAGGGGGGGGGGGAGAGGGGGCGGTVAVVPIPVPTLFGQPPNPGPWHSGSLOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 118089410 | ref | XP\_420210.2 | MAAGGGG---GGNGGGSSNSGSSSSNNNG---TGGLG---IPAHLLTFSAGPHWGAAILPOPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 189519255 | ref | XP\_697215.3 | MAASQGGV---SAAALQSPVPIVAHNNPQVMQOHPH---TVRSLDRALEEAGNGGILSLGRKLRFPFSG--YDLTDITQADLSRNRFTIIPSDVWLFAPLE 150  
gi | 24584802 | ref | NP\_724046.1 | MAATVYQRLHVAVGVGSAAGSAIGSGSASLPGSGT---GGSGIGHAGNTSSSTSSALLSHSQ---LIRSLERILEDAHFGEGLILNRRKLDKDFRFGKYSKSLDITVIAADLSRNRFTIIPSDVWLFAPLE 150  
gi | 158299038 | ref | XP\_319156.4 | -----SQ---LIRSLERILEDAHFGEGLILNRRKLDKDFRFGKYSKSLDITVIAADLSRNRFTIIPSDVWLFAPLE 150



gi | 124487175 | ref | NP\_001074642.1 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 109510544 | ref | XP\_346282.3 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 154091020 | ref | NP\_065922.3 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 74008142 | ref | XP\_549199.2 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 119920154 | ref | XP\_618181.3 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 118089410 | ref | XP\_420210.2 | TLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 189519255 | ref | XP\_697215.3 | SLNLYHNCIKTIPEAIKNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 24584802 | ref | NP\_724046.1 | LLLLYHNTIIRSIPEAVNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300  
gi | 158299038 | ref | XP\_319156.4 | RLLVYHNTIIRSIPEAVNLQMLTYLNIISRNLLSTLPKYLFDLPKLVLVVSNKLVSIPEEIGKLD-LMELDISCNEIOVLPQOMGKLSLRELNRRNNLHVLPDELGDLPLVKLDFCNKVTIIPVCYRKLHQLVITLDDNPLQVPP 300



gi | 124487175 | ref | NP\_001074642.1 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 109510544 | ref | XP\_346282.3 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 154091020 | ref | NP\_065922.3 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 74008142 | ref | XP\_549199.2 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 119920154 | ref | XP\_618181.3 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 118089410 | ref | XP\_420210.2 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 189519255 | ref | XP\_697215.3 | AQICLKGKVIHFYKYLNIQACCRMDKKPDS---LDLPSLNKRMPSPQLDSMEDFYPNKNGPDSGIGSDNG--EKRLSTTEPDDDDTISLHSQVSESNREQTSRNDSSHITGSKPD---SOKDOEYDFIDPNTEDVAVPE 450  
gi | 24584802 | ref | NP\_724046.1 | ASLCMRGLVHVFKYLELVAASREK-SKGT---IDGHAIRRTALSAKNS---SCLLDSQQRNRRANVDSGYCISDGGFDGKRWKYEDAHNF---LISKWSPPPLHPGCTVMQASGSHKIAI-NFSSGGQVALATHPNHGGPHE 450  
gi | 158299038 | ref | XP\_319156.4 | -----SCLLDSQQRNRRANVDSGYCISDGGFDGKRWKYEDAHNF---LISKWSPPPLHPGCTVMQASGSHKIAI-NFSSGGQVALATHPNHGGPHE 450



gi | 124487175 | ref | NP\_001074642.1 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 109510544 | ref | XP\_346282.3 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 154091020 | ref | NP\_065922.3 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 74008142 | ref | XP\_549199.2 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 119920154 | ref | XP\_618181.3 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 118089410 | ref | XP\_420210.2 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 189519255 | ref | XP\_697215.3 | EGDTHIGS-FVSLKGGKEKSPKESK---KNEEPPNEKVDKELLPEEDDDLKEVTDLRKIAAQLLQOEKQNRILNHSTVSM-RNKPKQTVCEKSVSADEGNPSLSPPLAWPLENOKDOIIVDQWPESQPIIWNERRRSKQIRKEY 600  
gi | 24584802 | ref | NP\_724046.1 | SYAHNSNSNGSSPDQDDIMLDHCERTVHANGRSRGLTNIQTYRYKYEALDKQRNQEIVYKQKHPN-AHSPDDEBLSPPSISNCGSSNTLPKSIKQNSNQICHNGNGSANGCVDDVVIKPKPIKVIPIPRITEIKPAS 600  
gi | 158299038 | ref | XP\_319156.4 | SVDVTAAGTIGGS---NDVNDISLPGDITPDKKGTIDKGRITLNIQTYRYKYEALDKQRNQEIVYKQKHPN-AHSPDDEBLSPPSISNCGSSNTLPKSIKQNSNQICHNGNGSANGCVDDVVIKPKPIKVIPIPRITEIKPAS 600



gi | 124487175 | ref | NP\_001074642.1 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 109510544 | ref | XP\_346282.3 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 154091020 | ref | NP\_065922.3 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 74008142 | ref | XP\_549199.2 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 119920154 | ref | XP\_618181.3 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 118089410 | ref | XP\_420210.2 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 189519255 | ref | XP\_697215.3 | FKYKSTRKNSGNEEEOESDNAMHSAQSPVSSSEYDRSDGFSHGPPGLKP---RSAFSRASROEYGAADPGFTMRRKMEHLREEREQIRQLRNNLESRLKVLIPDDIGAALMDGVVLCNLANHIRRPSVASIHPVSPAVPK 750  
gi | 24584802 | ref | NP\_724046.1 | GSDIRANSDCLEGVYKPOPMKNGSKFNTSNGGGVDTIVGIVSSTIKLGTIKVTRVSWNHDIPEAKLSFTMRRREFDQREETELMSLDTIIEIRLKMILPVDIASALTDGVVLCNLANHIRRPSVASIHPVSPGVNK 750  
gi | 158299038 | ref | XP\_319156.4 | QSPHTLNGNHASG---AASVSVSNGOGKNAISAGKSGSGLSAHNNLPPRIITVKI---ILVCRVSWNRDVPTEKLSFTMRRREFDQREETELMSLDTIIEIRLKMILPVDIASALTDGVVLCNLANHIRRPSVASIHPVSPGVNK 750



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gi|124487175|ref|NP_001074642.1|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGVTVQALLELPTTKASQLSMA-----837
gi|109510544|ref|XP_346282.3|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGVTVQALLELPTTKASQLSMA-----837
gi|154091020|ref|NP_065922.3|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGVTVQALLELPTTKASQLSVA-----837
gi|74008142|ref|XP_549199.2|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGVTVQALLELPTTKASQLSTA-----837
gi|119920154|ref|XP_618181.3|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGVTVQALLELPTTKASQLSTA-----837
gi|118089410|ref|XP_420210.2|LSMAKCRRNVENFLDACKKLGVSQERLCLPHHILEERGLVKVGLTVQALLELPTTKASQLSAM-----837
gi|189519255|ref|XP_697215.3|-----837
gi|24584802|ref|NP_724046.1|LTMARCRNVNDFLEACRRIGVDENLICCAADVLEGGKGVAVAIIVGELFRHNGGCCSGNSGAAIPTKSPTRTRAIISPPLA-----837
gi|158299038|ref|XP_319156.4|LTMARCRNVVDYFLDACKKLGVPQERLCLPHHILEERGLVKVGLTVQALLELPTTKASQLSMA-----837
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