

gi|6680644|ref|NP_031430.1| MGPRALSPLASLRRLRWLLACGLLGPVLEAGRPDLEOTVHLSSYEIIPWRLTRERREALRPSKQ-----ISYVIOAQGKQHIHLERNT-----DLLPNDFFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 135
gi|62339281|ref|NP_001014772.1| MGPRALSPLASLRRLRWLLACGLLGPVLEAGRDS EOTVHLSSYEIVPWRLTRERREALRPSKQ-----ISYVIOAQGKQHIHLERNT-----DLLPNDFFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 135
gi|4501915|ref|NP_003807.1| MGSGARFPSSGLRVRWLLLLGLVGPVLAARPGFOOTSHLSSYEIIPWRLTRERREALRPSYKQ-----VSYVIOAQGKQHIHLERNK-----DLLPNDFFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 135
gi|114619853|ref|XP_519719.2| MGSGARFPSSGLRVRWLLLLGLVGPVLAARPGFOOTSHLSSYEIIPWRLTRERREALRPSYKQ-----VSYVIRAEAGKEHIHLERNK-----DLLPNDFFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 135
gi|73979290|ref|XP_532798.2| MGSGAGSPFGVFRLLQWLLFLGVPVGGARPGFOOTSHLSSYEIIPWRLTRERREALRPSYKQ-----VSYVIOAQGKQHIHLERNKGVSPSPGFLPRDFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 142
gi|194679248|ref|XP_614306.4| MGSGAGSPFGVFRLLQWLLFLGVPVGGARPGFOOTSHLSSYEIIPWRLTRERREALRPSYKQ-----MIFMLG-----EGFOOTSHLSSYEIIPWRLTRERREALRPSYKQ-----DLLPNDFFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 110
gi|71897213|ref|NP_001026567.1| MARAARSCLCRLLLLLLAALP-----GAGGFEIQLSSYEIVPQKLRERRETSNASTDK-----VSYAIEIEGKEYITHLEKKN-----DLLPKDFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 133
gi|167555164|ref|NP_001107911.1| MTRHVN-----FVLLINFSICP-----VQAIQTSYLYLKKYDVKVQVMWRWRYADPSHKQPERHADIIYVSRVEGSDRILHVTKT-----DLSKDFVVTYDKEGSLSDHPNVQSHCHYRGVVEGVNSAVAVSACFG 131



gi|6680644|ref|NP_031430.1| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDGHEPLRCGVSNRDEKEGTEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 285
gi|62339281|ref|NP_001014772.1| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDVHQPRLKCVSNRDEKEAEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 285
gi|4501915|ref|NP_003807.1| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDVHQPRLKCVSNRDEKEAEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 285
gi|114619853|ref|XP_519719.2| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDVHQPRLKCVSNRDEKEAEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 285
gi|73979290|ref|XP_532798.2| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDVHQPRLKCVSNRDEKEAEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 292
gi|194679248|ref|XP_614306.4| LRGLLHLENASFGIEPLHNSHFEHIFVPMDDVHQPRLKCVSNRDEKEAEGDEEHPVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 260
gi|71897213|ref|NP_001026567.1| LRGLVTHGNVYGIPEMDSSSGSEHIVYSLDVKKEPEMCCVGNKMEKETINYEDEEPLSVTVQLRRRAVLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 282
gi|167555164|ref|NP_001107911.1| IRGVIIIGKSYGLEPVLHFKANEHLLFLLEDHSEPPVCGLE-----ETLSLSEDSHRADMSMFLRKR-----HLPOTRYVELFIVVDKERYDMMGRNQTAVREEMIRLANVLD SMYIMLNRIVLVGLEIWDNPNINIIGGAGDVLGNFV 276



gi|6680644|ref|NP_031430.1| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 433
gi|62339281|ref|NP_001014772.1| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 433
gi|4501915|ref|NP_003807.1| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 433
gi|114619853|ref|XP_519719.2| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 433
gi|73979290|ref|XP_532798.2| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 440
gi|194679248|ref|XP_614306.4| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 408
gi|71897213|ref|NP_001026567.1| QWREKFLITRRRHDSAGLVLLKGG--FGGTAGMAFVGTVCSRSHAGGINVFGQITVTFASIVAHELGHNLMGNHDDGRFCGAKSCIMNSGASGRNFS CSAEDFEKLLLNKGGSCLLNIPKPKDEAYSAPSCGNKLVDPGECCDCGTF 430
gi|167555164|ref|NP_001107911.1| DWRKTLSPGIRNDAAQLVVGCGAYPGGVLGMAFVGSVCSASTSGALSVSDNNLQYVSTVAHELGHNLGMSHDSNCGSC--QCIMAPSASGSKTFSCSDNFAFRIQGGGACLRNIPADQSSIIIVPERCGNGLSSECCDCGTF 422



gi|6680644|ref|NP_031430.1| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 583
gi|62339281|ref|NP_001014772.1| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 583
gi|4501915|ref|NP_003807.1| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 583
gi|114619853|ref|XP_519719.2| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 583
gi|73979290|ref|XP_532798.2| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 590
gi|194679248|ref|XP_614306.4| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 558
gi|71897213|ref|NP_001026567.1| KECELDPCCEGSTCKLKSFAECAYGCCDCRFLPGGLCRGKTECEDVPEYCNSSQFCPPDVFIONGYPCNNKAYCNGMCOYYDAQCQVIFGSKAKAAPRDCFIENVSKGDRFNGCGFSGNEYKKCAITGNALCGKLCENVQDMPV 580
gi|167555164|ref|NP_001107911.1| QECN-TTCCNAATCTFKGSTCAAGSCCKQCLIVAGTFCRPSINPCDLPEYCGGSEPCYSPDFVYMDGLPCNNAAAYCFEGRCTFDYQCKQIFGSGATKADKCFINVTYGNAFNGCGYSGTFFPKPCSVQAMCGKLCCLFNSSNPP 571



gi|6680644|ref|NP_031430.1| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 730
gi|62339281|ref|NP_001014772.1| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 730
gi|4501915|ref|NP_003807.1| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 731
gi|114619853|ref|XP_519719.2| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 731
gi|73979290|ref|XP_532798.2| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 738
gi|194679248|ref|XP_614306.4| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 706
gi|71897213|ref|NP_001026567.1| FGIVPAIIQTPSRGTCWGVDFQLGSDVDPDMVNEGKCDAGKICRNFQCVNASVNL--YDCDIQKCHGHGVCNSNKNCHCEDGWAPPNCHETKGYGGSVDSGPTYNEMTALRDGLLVFFFLIVLVAIAIFLKRDELRT--FRKK 707
gi|167555164|ref|NP_001107911.1| LGAIVSVQKIEGTTICMNADEFNMGDVPDPAVVKTAIVCAPKGLCANFTCFNSSVMDQSRKCAQRDCSSNGDRYHCHNNGWPPNCKGGGSGSDSGP--AEIDYSLRNLGFLVFFLIVLVAIAIFLKRDELRT--FRKK 719



gi 6680644 ref NP_031430.1	RSQ--MSDGRNQANVSRQPGDPFISRPPGGPNVSRPPGGPGVSRPPGGPGVSRPPGGPGVSRPPPGHGRFPVPTIYAAKQPAQFPRPPPPPQPKISSQGNLIPARPAAPAPP--LYSSLT	845
gi 62339281 ref NP_001014772.1	RSQ--MSDGRNQANASRPPGDPFVSRPPGGPNVSRPPGGPNVSRPPGGPNVSRPPGGPEVSRPPVHGGRFPVPTIYAIKQPPQFPRPPPPPQPKIPSGNLPARPAAPAPP--LYSSLT	845
gi 4501915 ref NP_003807.1	RSQTYESDGKNQANPSRCPG--SVPRHVS--FVTTP-----REVPIYANRFQVPTIYAAKQPPQFPRPPPPPQPKVSSQGNLIPARPAAPAPP--LYSSLT	819
gi 114619853 ref XP_519719.2	RSQTYESDGKNQANPSRCPG--SVPRHVS--FVTTP-----REVPIYANRFQVPTIYAAKQPPQFPRPPPPPQPKVSSQGNLIPARPAAPAPP--LYSSLT	819
gi 73979290 ref XP_532798.2	RSQTYESDGKNQAKASRCPV--SVPRHVS--FVTTP-----REAPIYANRFQVPTIYAAKQPPQFPRPPPPPQPKVSSQGNLIPARPAAPAPP--LYSSLT	826
gi 194679248 ref XP_614306.4	RSQTYNESGGKNQAKDSRCPA--SVPRPVs--SVIIPP-----RNVPVQTNRFQVPTIYGARQPPQYPRPPPPPQPKESFQGNLVPARAPAPPPPPPLYSSLT	796
gi 71897213 ref NP_001026567.1	-----	707
gi 167555164 ref NP_001107911.1	GCPSIRKRPTAAANGSNTF--ENVQANG-----NTIRASAPQSMTEIQAAHSQ--PDDPKYQDITVNPQPROGPGVVPKPIPPRQTQVEV-	801
760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....	

