

gi | 148664218 | ref | NP_055167.2 |MVNLESMHTDIKMSGDVADSTIDARSTLSVEPGNDRNGLDFN 150
gi | 114640855 | ref | XP_001151894.1 | MAELFSPKSGIIPGSHVNIITLVAPAFAPS HSLVYVTLIPRGVVPFAAAKGSTGAERATVAALAPAAAPAAAAGDWRKELTASCGARLGGORRGAWGGAGFGPAWGRMVNLESMHTDIKMSGDVADSTIDARSTLSVEPGNDRNGLDFN 150
gi | 119226249 | ref | NP_035269.2 |MVNLEPMHTEIKMSGDVADSTIDARSTFGQVEPGNDRNGLDFN 150
gi | 109483341 | ref | XP_343379.3 |MVNLEPMHTEIKMSGDVADSTIDARSTFGQVEPGNDRNGLDFN 150
gi | 73955014 | ref | XP_853080.1 |MDGHVLQVRRMLKRRSHAPIIARGRAGLRLLALSERADLAHLVSGRPGESGKGQRQSSAEDIKMSGDVADSTIDARSALSVEPGNDRNGLDFN 150
gi | 194673086 | ref | XP_594648.4 |MVNLEPMHPDIKMSGDVADSTIDARSALSVEPGNDRNGLDFN 150
gi | 118101913 | ref | XP_425799.2 |MLTWPNCMATNGAVGPGVSGGAPAGSRGSSGWQRREGLKLAAPGNLGTAGGWVHRRFPPASRMVNLVSHAEIKMSGDAADSTIDARHPEDVVEPGSQNGLDFN 150
gi | 113675179 | ref | NP_001038720.1 |MSLDAVEQESL---QHEQADIEIQNGIDFTRQIKTENLNDSPHSQSSKIKCHLTPGSSPLPPGQLTGEMPSLHPL---FQLVLMFPGSHLSSPS--- 150
gi | 189546025 | ref | XP_001346131.2 |MAQCAALCVPSLSPNPNPIQEGEGRLETDPSDEVAAGSMAGRDNPSEICTAMAPPITVYGPVPSSEWGNLPPSFRGGSLGLARERANLNTLGLSPRVIALIQNARASSTSLYDCK 150



gi | 148664218 | ref | NP_055167.2 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSGLNASPCQ---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 114640855 | ref | XP_001151894.1 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSGLNASPCQ---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 119226249 | ref | NP_035269.2 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSG---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 109483341 | ref | XP_343379.3 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSG---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 73955014 | ref | XP_853080.1 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSGLNASPCQ---DMTSLHPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 194673086 | ref | XP_594648.4 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSGLNASPCQ---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 118101913 | ref | XP_425799.2 |RQIKTEDLSD---SLQOTLSHRPCHLSQGPAMMSGNOMSGLNASPCQ---DMAHLPLQQLVLI---VPGHLSVSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLPOTGPGLASQAVGRPGLPGSSLEPHLEAS 300
gi | 113675179 | ref | NP_001038720.1 |RQIKTEDLSD---SLQSTIPRPSGHLVGGSSMPPGSLIAGVSAFAAPG---DMSLELTLQQLVLI---LPGHMQSVQFLLS---QTQPGQOGLQPNLLFPFQQOSSLLLSAPGSLASQAVGRPGLPGSSLEPHLEAS 300
gi | 189546025 | ref | XP_001346131.2 |WRMFEWCEERRLLSYQCSVADILGFLQG---LMDCGKSFSTIKVYLAATACHVGFQDGTAGQHLPIRRFMKARRLPLVRRVPEWDLVMVLDALHHPFETIEAISKHLKHLKALLL---ALASAKRAMGRSGLAGSSMDGHLDM 300



gi | 148664218 | ref | NP_055167.2 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 114640855 | ref | XP_001151894.1 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 119226249 | ref | NP_035269.2 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 109483341 | ref | XP_343379.3 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 73955014 | ref | XP_853080.1 |PHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 194673086 | ref | XP_594648.4 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 118101913 | ref | XP_425799.2 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 113675179 | ref | NP_001038720.1 |QHLPVPKHLPSGGADEPDLLELEKFAKTFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 189546025 | ref | XP_001346131.2 |HLQVVKVGSPP---QDEPNDLLELEQAFKAFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450
gi | 189546025 | ref | XP_001346131.2 |HLQVVKVGSPP---QDEPNDLLELEQAFKAFKORRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPPLLEKWLNDAESPPSDPVSVTPSSYPVLSLSEVFGRRKRKRISIEINIRLLEKRFQDNPKPSSSEISMIAEQ 450



gi | 148664218 | ref | NP_055167.2 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PIKPPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAVN---SAG- 600
gi | 114640855 | ref | XP_001151894.1 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PIKPPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAVN---STS- 600
gi | 119226249 | ref | NP_035269.2 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PVKPPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAMN---SSS- 600
gi | 109483341 | ref | XP_343379.3 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PVKPPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAMN---SSS- 600
gi | 73955014 | ref | XP_853080.1 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PIKSPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAVS---SSS- 600
gi | 194673086 | ref | XP_594648.4 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PIKSPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAVN---SSS- 600
gi | 118101913 | ref | XP_425799.2 |LSMEKEVVRVWFCNRRQKEKRINCPVAT---PIKSPVYNSRLVSPSGSLGPLSVPPVHS---IMP GTVTSSCSPGNNSRPSSPGSLHASS---PTASQNNKAAMN---SSS- 600
gi | 113675179 | ref | NP_001038720.1 |LAMEKEVVRVWFCNRRQKEKRIVCVSTSPKIPKPNFNPRLPSTERSFPLTSGGVSSSPGSPRGSSPGLTATTSSPLLAQSVNQIFNTAGGMMHNSRVSSEIRRNRSRVSSKKGTSGPMWOTERRAAKYGETRGHNKYWAIKLTSESSKL 600
gi | 189546025 | ref | XP_001346131.2 |LAMEKEVVRVWFCNRRQKEKRIVCVSTSPKIPKPNFNPRLPSTERSFPLTSGGVSSSPGSPRGSSPGLTATTSSPLLAQSVNQIFNTAGGMMHNSRVSSEIRRNRSRVSSKKGTSGPMWOTERRAAKYGETRGHNKYWAIKLTSESSKL 600



gi | 148664218 | ref | NP_055167.2 |SFNSSGSWYR---WNHSTYLYL 750
gi | 114640855 | ref | XP_001151894.1 |SFNSSGSWYR---WNHSTYLYL 750
gi | 119226249 | ref | NP_035269.2 |SFNSSGSWYR---WNHSTYLYL 750
gi | 109483341 | ref | XP_343379.3 |AAFNSSGSWYR---WNHSTYLYL 750
gi | 73955014 | ref | XP_853080.1 |--FNSSGIFTSPKQENFIPVGNLGTGDIIPPTSKIKKFLRIHLAPYAPLEGRESRLRPLVGGIIVRRVEENPHYQPKLLLOE 750
gi | 194673086 | ref | XP_594648.4 |--FNSSGSWYR---WSHPTLYL 750
gi | 118101913 | ref | XP_425799.2 |--FNSSG--- 750
gi | 113675179 | ref | NP_001038720.1 |--FNSSG--- 750
gi | 189546025 | ref | XP_001346131.2 |TFNTPFGRVRFRCFLPFGIISADDEFQKIDETIYEGLRGVVAIVDDLVNIRONKKEHDDNLHAMILQRREKGVKLNPEKILLSATEVRFHCHLSAEGIKVDPKVKVAIKNMEPPKSKAELETVLGMINYLKFPAPCLSDINAPLRQLLK 750



gi	148664218	ref	NP_055167.2	-----	819
gi	114640855	ref	XP_001151894.1	-----	819
gi	119226249	ref	NP_035269.2	-----	819
gi	109483341	ref	XP_343379.3	-----	819
gi	73955014	ref	XP_853080.1	-----	819
gi	194673086	ref	XP_594648.4	-----	819
gi	118101913	ref	XP_425799.2	-----	819
gi	113675179	ref	NP_001038720.1	-----	819
gi	189546025	ref	XP_001346131.2	QSSRFIWDSDHDDAFKKMKDLIIEKEPGPVLAYYDPQKKIAPSSGRKVVWPSSPTSGRKAAQLCIKVID	819
			760.....770.....780.....790.....800.....810.....	
