

CLUSTAL 2.0.9 multiple sequence alignment of FKBP38s

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NP_036313      LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
NP_001295302   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_003817801   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_010384957   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_003817802   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_011747960   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_003915233   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
EHH59371       LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_005588521   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_002828980   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
PNJ28395       LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_011949838   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_018870801   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_007993999   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_014978797   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_011747796   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_002828981   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_010328455   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_008969279   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_011526166   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_011949835   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_017356795   LRKKTLVPG-PPGSSRPVKGQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_016066232   LRKKTLVPG-PPGSSRPVKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_015413209   LRKKTLVPG-PPGSSRPVKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_022262557   LRKKTLVPG-PPGSSRPVKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_023103313   LRKKTLVPG-PPGSSRPVKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD

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XP_019271925	LRKKTLVPG-PPGSSRPAGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_002761955	LRKKTLVPG-PPGSSHPVKQVVTVHLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_010970466	LRKKTLVPG-PPGSSRPAGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_005652984	LRKKTLVPG-PPGSSRPATKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
XP_014687059	LRKKTLVPG-PPGSSRPATKGQVVTVQLQTSLE-NG--TRVQEEPELVFTLGDGCDVIQALD
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XP_003499206	LRKKTLVPG-PPGSTRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
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5MGX_E	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_017168055	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
NP_001032257	LRKKTLVPG-PTGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_004595597	LRKKTLVPG-PPGSSRPSKGQVTVHLHTSLE-NG--TRVQEDPELVFTLGD CDVIQALD
XP_017529992	LRKKTLVPG-LPGSSLPAGQVTVQLQTSLE-NG--TRVQEESELVFTLGD CDVIQALD
XP_005370624	LRKKTLVPG-PPGSSRPLKGQVTVHLQMSLE-NG--THVQEEPELFTLGD CDVIQALD
NP_001104536	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_021074828	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_012664880	LRKKTLVPG-PPGSSRPTKGQVTVQLQTSLE-NG--TRVQDEPELMFTLGD CDVIQALD
XP_006989221	LRKKTLVPG-PPGSGRPLKGQVTVHLHVSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_007635977	LRKKTLVPG-PPGSTRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_004616706	LRKKTLIPG-PPGSSRPTKGQVTVRLQTALE-NG--TRVQDEPELQFTLGD CDVIQALD
XP_012664879	LRKKTLVPG-PPGSSRPTKGQVTVQLQTSLE-NG--TRVQDEPELMFTLGD CDVIQALD
XP_004705311	LRKKTLVPG-PPGSSRPAGQVTVRLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_017168054	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_021026690	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_004595596	LRKKTLVPG-PPGSSRPSKGQVTVHLHTSLE-NG--TRVQEDPELVFTLGD CDVIQALD
XP_017529990	LRKKTLVPG-LPGSSLPAGQVTVQLQTSLE-NG--TRVQEESELVFTLGD CDVIQALD
XP_005370622	LRKKTLVPG-PPGSSRPLKGQVTVHLQMSLE-NG--THVQEEPELFTLGD CDVIQALD
XP_012883833	LRKKTLVPG-PPGAGRPTKGQVTVRLQMSLE-DG--ARVQEEPELLFTLGD CDVIQALD
XP_021026691	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_010849455	LRKKTLVPG-PPGSSRPTKGQVTVRLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_010604777	LRKKTLVPG-PPGSSRPTKGQVTVQLQMSLE-NG--TRVQEEPELSFTLGD CDVIQALD
XP_004705310	LRKKTLVPG-PPGSSRPAGQVTVRLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_021026689	LRMKTLVPG-PKGSSRPLKGQVTVHLQMSLE-NG--TRVQEEPELAFTLGD CDVIQALD
XP_005898381	LRKKTLVPG-PPGSSRPTKGQVTVRLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_012883832	LRKKTLVPG-PPGAGRPTKGQVTVRLQMSLE-DG--ARVQEEPELLFTLGD CDVIQALD
XP_024622994	LRKKMLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TR-----ALD
XP_022414294	LRKKMLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TR-----ALD
XP_007116996	LRKKMLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TR-----ALD
XP_024622993	LRKKMLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TR-----ALD
XP_022414293	LRKKMLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TR-----ALD
XP_023055022	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
ELR54589	LRKKTLVPG-PPGSSRPTKGQVTVRLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_010845609	LRKKTLVPG-PPGSSRPTKGQVTVRLQ-----FTLGD CDVIQALD
XP_021538869	LRKKTLVPG-PPGSSRPAGQVTVQLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
KF022602	LRKKTLVPG-PPGSSRPTKGQVTVQLQMSLE-NG--TRVQEEPELSFTLGD CDVIQALD
2MF9_A	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
PN150452	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
PNJ28404	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_007533227	LRKKTLIPG-PPGARPVQGVTVRLQVSLE-SG--ARVLDEPELQVFTLGD CDVIQALD
XP_020864537	LRKKILAAA-PPGAERPQKQDVTVQLKVSLEDHG--TQVEEHPRLTFTLGD CDFLQALD
XP_012397649	LRKKIVVAA-PPGAERPQKQDMTVQLKVSLEDDG--TQVEEESLFTFTLGD CDFLQALD
XP_001369403	LKKKILVAA-PPGAERPQKQDVTVHLKISLEEDG--TQVEEQPSITFTLGD CDFLQALD
2F2D_A	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
2D9F_A	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_015668943	LKKKVIVSG-QGQESRPVKQDVTVHFKATLEDG---TVVEEDPRLTFTLGD CDIIQALD
2AWG_A	LRKKTLVPG-PPGSSRPVKQVTVHLQTSLE-NG--TRVQEEPELVFTLGD CDVIQALD
XP_015668942	LKKKVIVSG-QGQESRPVKQDVTVHFKATLEDG---TVVEEDPRLTFTLGD CDIIQALD

XP_025032464	LKKKVIIISG-QGQESRPVKGDVTVIRLKVMLEDG---TVVEEDPSLTFTLGD CDVIQALD
XP_007443923	LKKKVIIISG-QGQESRPVKGDVTVIRLKVMLEDG---TVVEEDPSLTFTLGD CDVIQALD
KFV73372	LKKKTLVPG-QGVESRPRKGDVTVRLKATLEDG---SVVEENPSLTFTLGD CDVQLALD
AXB56359	LKKKTLVPG-QGVESRPRKQEVTVRLRATLEDG---NVVEENPSLTFTLGD CDVQLALD
XP_009675861	LKKKTLVPG-QGVESRPRKGDVTVRLKATLEDG---SVVEENPSLTFTLGD CDVQLALD
AXB73131	LKKKTLVPG-QGVESRPHKQEVTVRLRATLEDG---NVVEENPSLTFTLGD CDVQLALD
XP_010723402	LKKKTLVPG-QGVESRPRKGDVTVRLRATLEDG---SVVEENPSLTFTLGD CDVQLALD
KFV67807	LKKKTLVPG-QGVDTRPRKGDVTVIRLEARLEDG---SVVEEDPALTFTLGD CDVQLALD
XP_010304001	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
NP_001241668	LKKKTLVPG-QGVESRPRKQEVTVRLRATLEDG---NVVEENPSLTFTLGD CDVQLALD
KF003599	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_021234495	LKKKTLMPG-QGVESRPRKQEVTVRLRATLEDG---SVVEENPRLTFTLGD CDVQLALD
POI29828	LKKKTLVPG-QGVESRPRKQEVTVRLRATLEDG---NVVEENPSLTFTLGD CDVQLALD
XP_021234496	LKKKTLMPG-QGVESRPRKQEVTVRLRATLEDG---SVVEENPRLTFTLGD CDVQLALD
XP_023963943	LKKKTLVPG-QGMASRPRKGDVTVRLKAMLEDG---SVVEDSPSLSTFTLGD CDVQMALD
XP_014793985	LKKKTLVPG-QGVDTRPRKGDVTVIRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_009899401	LKKKTLVPG-QGVDTRPRKGDVTVIRLEARLEDG---SVVEEDPALTFTLGD CDVQLALD
XP_015742210	LKKKTLVPG-QGVESRPHKQEVTVRLRATLDDG---TVVEENPSLTFTLGD CDVQLALD
XP_009641057	LKKKTLVPG-QGVDTRPHKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
KFP19261	LKKKTLVPG-QGVDTRPHKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_024065593	LKKKTLVPG-QGVASRPRKGDVTVRLKAMLEDG---SVVEDSPSLSTFTLGD CDVQMALD
XP_011594878	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_014742726	LKKKTLVPG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEEDPALTFTLGD CDVQMALD
XP_015742208	LKKKTLVPG-QGVESRPHKQEVTVRLRATLDDG---TVVEENPSLTFTLGD CDVQLALD
XP_019369180	LKKKTLVPG-QGVESRPRKQNVTVRLRVMLEDG---SVVEENPGLTFTLGD CDVQLALD
XP_010561556	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_008638175	LKKKTLVPG-QGADSRPQKGDVTVIRLKATLEDG---TVVEENPALTFTLGD CDVQLALD
XP_002195923	LKKKTLVPG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEEDPALTFTLGD CDVQLALD
XP_015266773	LKKKVLVAG-QGRETRPVKNQDVTIRLKTTLLEDG---TVVEENPSLTFTLGD CDVIQALD
XP_005505599	LKKKTLVPG-QGVDTRPNKQNVTVIRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_014115778	LKKKTLVPG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEENPALTFTLGD CDVQLALD
XP_014742725	LKKKTLVPG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEEDPALTFTLGD CDVQMALD
XP_018780521	LKKKTLVPG-QGVESRPQKGDVTVIRLKATLEDG---TVVEEDPALTFTLGD CDVQLALD
XP_005235043	LKKKTLVPG-QGVDTRPHKGDVTVRLRAALEDG---TVVEENPALTFTLGD CDVQLALD
OPJ86694	LKKKTLVPG-QGVDSRPQKQNVTVIRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_019341692	LKKKTLVPG-RGMESRPSKQVTVRLRVMLEDG---SVVEEDPGLTFTLGD CDVQLALD
XP_021400798	LKKKTLVPG-QGADSRPQKGDVTVIRLKATLEDG---TVVEEDPALTFTLGD CDVQLALD
XP_006028906	LKKKTLVPG-QGAESRPRKGDVTVRLRVMLEDG---SVVEEDPGLTFTLGD CDVQLALD
KFQ97904	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_015507158	LKKKTLVAG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEENPALTFTLGD CDVQLALD
KFW12711	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_006271082	LKKKTLVPG-RGMESRPSKQVTVRLRVMLEDG---SVVEEDPGLTFTLGD CDVQLALD
KF081655	LKKKTLVSG-QGVDTRPRKGDVTVIRLKAMLEDG---SVVEENPALTFTLGD CDVQLALD
XP_007072098	LKKKTLVPG-QGVESRPRKGDVTVRLKVMLEDG---SVVEDNPSLSFTLGD CDVQMALD
XP_020669929	LKKKVLVAG-QGRETRPVRGQDVTVRLKATLEDG---SVVEEASTLTFTLGD CDIIHALD
XP_009464539	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_010158039	LKKKTLVPG-QGVDTRPRKGDVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_019149030	LKKKTLVPG-QGADSRPQKGDVTVIRLKATLEDG---TVVEENPALTFTLGD CDVQLALD
XP_020669930	LKKKVLVAG-QGRETRPVRGQDVTVRLKATLEDG---SVVEEASTLTFTLGD CDIIHALD
XP_019393900	LKKKTLVPG-QGVESRPRKQNVTVRLRMMLEDG---SVVEENPGLTFTLGD CDVQLALD
EMP24085	LKKKTLVPG-QGVESRPRKGDVTVRLKVMLEDG---SVVEDNPSLSFTLGD CDVQMALD
XP_009566597	LKKKTLVSG-QGVDTRPRKGDVTVIRLKAMLEDG---SVVEENPALTFTLGD CDVQLALD
KFW65305	LKKKTLVPG-QGVDPRPRKQEVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
XP_015507157	LKKKTLVAG-QGVDSRPQKGDVTVIRLKATLEDG---TVVEENPALTFTLGD CDVQLALD
XP_013799130	LKKKTLVPG-RGVESRPHKGDVTVRLKAMLEDS---SVVEENPSLTFTLGD CDVQLALD
XP_014433658	LRKKTLVPG-HGVESRPRKGDVTVRLKVMLEDG---HVVEENPSLSFTVGD CDVQMALD
XP_009319696	LKKKTLVPG-QGVDPRPRKQEVTVRLKATLEDG---SVVEENPALTFTLGD CDVQLALD
KFQ36923	LKKKTLVPG-QGVDTRPHKQNVTVIRLKATLEDGGG---SVVEENPALTFTLGD CDVQLALD

XP_005060257	LKKKTLVAG-QGVDSRPQKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
KFU87694	LKKKTLVPG-RGVDTRPRKGQDVTIRLKATLQDG---RVVEENPALFTFTLGDCDVLQALD
XP_005139681	LKKKTLVPG-RGGDTRPRKGQDVTIRLKAALQDG---RVVEENPALFTFTLGDCDVLQALD
XP_009993397	LKKKTLVPG-RGVDTRPRKGQDVTIRLKATLQDG---RVVEENPALFTFTLGDCDVLQALD
AAH84415	LKKKVLISG-KGAESRPRKGQDVTVQLKSMLNE---NVVEDQESLTFTLGDCDVLQALD
KQL50954	LKKKTLVPG-RGADTRPRKGQDVTIRLKAALQDG---SVVEESPALFTFTLGDCDVLQALD
NP_001088346	LKKKVLISG-KGAESRPRKGQDVTVQLKSMLNE---NVVEDQESLTFTLGDCDVLQALD
XP_013913386	LKKKVLPG-QGQETRPFRGQDVTIRFKAMLEDG---TVVEENPALFTFTLGDCDVLQALD
KFQ13009	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KFQ75436	VKQKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KFP56346	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKASLEDG---SVVEENPALFTFTLGDCDVLQALD
KFM07869	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_018096952	LKKKVLISG-KGAESRPRKGQDVTIRLKSMLNE---NVVEDQESLTFTLGDCDVLQALD
KFP65829	LKKKTLGPG-QGGDTRPCKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_023803625	LKKKTLVPG-QGVDSRPQKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
XP_009951725	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
NP_001120570	LKKKILISG-KGADSRPRKGQDVTIRLKSMLNE---NVVEEQETLFTFTLGDCDVLQALD
KFP23912	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_010073720	LKKKTVVPG-QGVDTTRPCKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KGL86304	LQKKTLPVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KFV08597	LKKKTVVPG-QGVDTTRPCKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KFW76752	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
XP_009700019	LKKKTLGPG-QGGDTRPCKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_010208130	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
KFQ81502	LKKKTLVPG-QGVDTCPKKGQDVTIRLKAMLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_017938939	LKKKTLVPG-QGVDTTRPRKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
KFP70760	LKKKTLVPG-QGVDTTRPCKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
XP_009880959	LQKKTLPVPG-QGVDTTRPRKGQDVTIRLKATLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_010292010	LKKKTLVPG-QGVDTCPKKGQDVTIRLKAMLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_009076312	LKKKTLVPG-QGVDTTRPCKGQDVTIRLKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
XP_018412986	LRKKVLEPG-QGVESRPRKGQDVTIRLKTSLTADG---SVVEEHVNYAFTLGDCDVLQALD
XP_022525503	LRKKVLEPG-SEPDSRPRKGQDVTIRLKTSLTADG---TVVEESNISFTLGDCDVLQALD
XP_021459512	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_021459510	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_024277334	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_024277330	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_024277333	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_009512288	-----SRPRKGQDVTIRLKAMLEDG---SVVEENPALFTFTLGDCDVLQALD
XP_020354512	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
KFZ50883	-----VDTRPRKGQDVTIRLKATLEDG---RVVEENPALFTFTLGDCDVLQALD
KFW81721	-----DSRPRKGQDVTIRLKAMLEDG---SVVEENPALFTFTLGDCDVLQALD
CDQ57258	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_020354513	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_020487811	LKKKVLEDG-EGRDSRPQKGQNVRIHLKTSLTADG---KLVEEQHDLSTFTLGDCDVLQALD
XP_024277331	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_014071869	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_011472153	LKKKVTPAG-KGRASRPQKGQNVRIHLKASLIDG---TLVEEQPNFSFTLGDCDVLQALD
XP_014071870	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD
XP_024114895	LKKKVTPAG-KGRASRPVKGQNVRIHLKTSLMDG---TVVEEQPDFSFTLGDCDVLQALD
XP_024114896	LKKKVTPAG-KGRASRPVKGQNVRIHLKTSLMDG---TVVEEQPDFSFTLGDCDVLQALD
ETE64390	-----RKESRPVKGQDVTIRFKATLEDG---TVVEEDPALFTFTLGDCDVLQALD
XP_023809890	LKKKVTPAG-KGRASRPQKGQNVRIHLKASLIDG---TLVEEQPNFSFTLGDCDVLQALD
XP_008499209	-----M-AGVDTRPRKGQDVTIRLKTSLADG---RVGEEETLFTFTLGDCDVLQALD
KFP06384	-----G-QGVDTTRPRKGQDVTIRLKTSLADG---RVGEEETLFTFTLGDCDVLQALD
XP_023859426	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLVEEQPELSFTLGDCDVLQALD
XP_023859424	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLVEEQPELSFTLGDCDVLQALD
XP_023859423	LRKKVLRAG-NGPDSRPTKGQNVVIHLKTSLADG---TLVEEQPELSFTLGDCDVLQALD
XP_021454666	LKKKVLPVPG-NGPDSRPTKGQNVMIHLKTSLADG---TLIEEQPELSFTLGDCDVLQALD

XP_017572299	LRKKVLEVG-SGPDSRPQRGQTVTINLKTTLTDG---TTVEEESNISFTLGDGDVIQALD
CDQ97962	LKKKVLQVG-NGPDSRPQKGQNVMIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
XP_023854736	LKKKVLQAG-NGPDSRPQKGQNVVIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
XP_018920592	LRKKVVEAG-AGPDSRPQKGQNVTIHLKTSLTNG---AVVEELPNLSFTLGDGDVQLALD
NP_001133417	LKKKVLQAG-NGPDSRPQKGQNVVIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
XP_023854735	LKKKVLQAG-NGPDSRPQKGQNVVIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
XP_024258320	LKKKVLQAG-HGPDSRPQKGQNVKIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
AAI52651	LRKKVLEAG-AGPDSRPQKGQNVTIHLKTALTNG---TVVDELKDLSTLGDGDVQLALD
XP_020348060	LKKKVLQAG-NGPDSRPQKGQNVKIHLKTSADG---TLIEEQPELSFTLGDGDVIQALD
NP_957178	LRKKVLEAG-AGPDSRPQKGQNVTIHLKTALTNG---TVVDELKDLSTLGDGDVQLALD
XP_005932512	LKKKVLKEG-EGRDSRPQKGQNVKIRLKTSLVDG---TLVEEKPDLAFTLGDGDVIQALD
XP_013860095	LKKKALEAG-RGRDSRPLKGQSVKINLKTHLMDG---TLIEEQHGLSFTLGDGDVIQALD
PWA20923	LKKKVLPEG-KGRASRPQKGQDVEINLKTQLMDG---TLVEEQNNLSFTLGDGDVIQALD
XP_005727139	LKKKVLKEG-EGRDSRPQKGQNVKIRLKTSLVDG---TLVEEKPDLTFTLGDGDVIQALD
XP_006790401	LKKKVLKEG-EGRDSRPQKGQNVKIRLKTSLVDG---TLVEEKPDLSFTLGDGDVIQALD
XP_019207270	LKKKVLKEG-EGRDSRPQKGQNVKIRLKTSLVDG---TVVEEKPDLAFTLGDGDVIQALD
XP_024654530	LKKKVLKEG-EGRDSRPQKGQNVKIRLKTSLVDG---TLVEEKPDFAFTLGDGDVIQALD
XP_007897075	LKKKVLVAG-RGELYQPQKGQNVTIHLKTSLEDG---TVLQEEPGLSFTLGDGDVIQALD
XP_010870009	LKKKVLQSG-NGPDTRPTKGQNVIIHLRTTLADG---TFIEEQPNFSFTLGDGDVIQGLD
XP_022615368	LKKKVLEAG-DGRDSRPQKGQNVKIHLKTYLKDG---ALVEEQSDLTFTLGDGDVIHALD
XP_010870008	LKKKVLQSG-NGPDTRPTKGQNVIIHLRTTLADG---TFIEEQPNFSFTLGDGDVIQGLD
XP_005795669	LKKKVLPEG-KGRASRPQKGQDVEINLKTLLMDG---TLVEEQNNLSFTLGDGDVIQALD
XP_020391166	LKKKVLVAG-QSQEPRPQKGQNVTVRLKMTLEDG---TEVEEDPNLCFTVGDGDVIQALD
AWP11099	LKKKVLVAG-QGRDSRPQKGQNVKTNLRTYLDKG---TLVEEQTGVTFTLGDSDVIQALD
XP_017333233	LRKKVLEAG-SGPDSKPQRGQNVTIHLKTTLSDG---TTVEE-SKISFTLGDGDVIQALD
KTF74275	LRKKIVEAG-AGPDSRPQRGQIVTIDLKTTLTDG---TVVEELPNLSFTLGDGDVQLVLD
XP_017262938	LKKKALEAG-QGRDSRPLKGQNVKINLKTHLVDG---TLVEEQQDLSFTMGDGDVIQALD
XP_023263872	LKKKVLEAG-DGRDSRPQKGQNVKIHLKTYLKDR---ALVEEQSDLTFTLGDGDVIHALD
XP_020391165	LKKKVLVAG-QSQEPRPQKGQNVTVRLKMTLEDG---TEVEEDPNLCFTVGDGDVIQALD
XP_016327233	LRKKVVEAG-AGPDSRPQRGQNVTIHLKTSLTNG---TVVEELPNLSFTLGDGDVQLALD
XP_016138463	LRKKVVEAG-AGPDSRPQRGQNVTIHLKTSLTNG---TVVEELPNLSFTLGDGDVQLALD
XP_016356127	LRKKVVEAG-AGLDSRPQRGQNVTIHLKTTLTDG---TVVEELPNVSFTLGDGDVQLVLD
XP_007577281	LKKKVLPEG-KGRASRPQKGQDVEINLRTHLMDG---TLVEEQNNLSFTLGDGDVIQALD
XP_008405333	LKKKVLPEG-KGRASRPQKGQDVEINLRTHLMDG---TLVEEQNNLSFTLGDGDVIQALD
XP_012715520	LKKKVLEAG-KGRGSRPQKGQNVKINLKTHLMDG---ALVEEQHCLSFTLGDGDVQLALD
XP_012695070	LRKKVLEGG-EGLDTRPTRGQNVQIKLKTLLFDG---TIVEEDSELAFTLGDGDVIQALD
XP_020795782	LKKKVLVPG-KGRDSRPQKGQNVKINLKTTLISDG---TVVVEISDLSFTLGDGDVIQALD
XP_016382508	LRKKVVEAG-AGPDSRPQRGQNVTIHLKTTLTDG---TVVEELPNVSFTLGDGDVQLVLD
XP_018522913	LKKKVLEAG-QGRDSRPQKGQNVKIHLKTYLKDG---KLVEEQSDLAFTLGDGDVIQALD
XP_008305299	LKKKVLEEG-QGRDSRPQKGQNVVINLKTCLKDG---TPVDEQTGLTFTLGDGDVIQAVD
XP_015238114	LKKKVVEAG-KGRDSRPQKGQNVIEINLKTQLMDG---TLVDEQHNLSTLGDGDVIQALD
XP_018583793	LKKKVLEAG-KGPDSKPTKGQNVKIYKASLADG---AVVEEPCLSFTVGDGDVIQALD
XP_016886204	LKKKVLEEG-QGRDSRPQKGQNVVINLKTCLKDG---TPVDEQTGLTFTLGDGDVIQAVD
XP_019752339	LKKKVLVAG-EGRESRPKKGQNVITICLKAFLKDG---TLVEEQPELTFTLGDGDVIQALD
XP_010728467	LKKKVLEAG-AGRDSRPQKGQNVKINLKTLYLDG---TPAAEEPNIISFTLGDGDVIQALD
KKF19855	LKKKVLEAG-AGRDSRPQKGQNVKINLKTLYLDG---TPAAEEPNIISFTLGDGDVIQALD
XP_015827013	LKKKVLEAG-KGRDSRPHKGQVVKIHLKTHLMDG---TLAQELCDLAFTLGDGDVIQALD
XP_022061518	LKKKVLEAG-QGRDSRPQKGQNVKINLKTLYMDG---TLVAEQPDLSFTLGDGDVQLALD
XP_019936960	LKKKVLEAG-EGRDSRPQKGQNVKINLKTSLKDG---TLVEEQSDVAFTLGDGDVQFQALD
XP_003974097	LKKKVLEVG-EGRDSRPQKGQNVKIDLKTYTKDG---DLVAEEPELCFTLGNGDVIQAVD
XP_023699813	LKKKVLEAG-NGPDSKPQKGQNVKIFLKMSLSDG---TVVEEPCLSFTLGDGDVIQALD
XP_023699812	LKKKVLEAG-NGPDSKPQKGQNVKIFLKMSLSDG---TVVEEPCLSFTLGDGDVIQALD
XP_020478047	LKKKVVKAG-KGRDTRPQKGQNVKIHLKTYLKDG---TLVEEQSDLSFTLGDGDVIQALD
XP_015220721	LRKKVLAAG-RGPDSRPQKGQTVRVRLKASLQDG---SLVQEEPSLDFTLGDGDVIQALD
XP_023123034	LKKKVLEAG-EGQDSRPQKGQNVKINLKTLYMDG---TLVEEQPDLSFTLGDGDVQFQALD
XP_020478046	LKKKVVKAG-KGRDTRPQKGQNVKIHLKTYLKDG---TLVEEQSDLSFTLGDGDVIQALD
XP_020478045	LKKKVVKAG-KGRDTRPQKGQNVKIHLKTYLKDG---TLVEEQSDLSFTLGDGDVIQALD
XP_008275730	LKIKALEAG-EGRDSRPQKGQNVKINLKTLYMDG---TLVVEEQPDLSFTVGDGDVIQALD

XP_010770232	LKKKVLEEG-KGRDSRPQKGQNVKINLKTCLSDG---TLVEKQSDLSFTLGDGDVIAQALD
XP_002601637	LKKKVIVKG-GDESTRPRPGQDVTIWSRGRLEDG---TTVDQHDEITFGLQEGDVIQAWD
XP_019619553	LKKKVIVKG-GDESTRPRPGQEVTIWSRGRLEDG---TTVDQHDEITFGLQEGDVIQAWD
XP_006814126	LKKKVLPKG-GGYRSRPARGDFVTVKYKTYLEND---NEVEDCESLKFILGDGDVIAAFD
XP_006629043	LRKRVLPKG-QEQAASPSWGQEVTVKLQGVLEDG---TVVEKDPRLTFVIGEGDVIQALE
PVD20167	LKKKVLNQG-REN-SRPTQGS�TVKVQSFLENG---ICFQD-NTETFILGDGDTLSAID
XP_023841292	LRKKVLAPG-PQKAEHPAWGQEVTVKMQGVLEDR---SVVEKDRKLVFVIGEGDVIQALE
XP_008410571	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_008410568	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_022329628	LKRKILSKA-PKNAKRPISSDVVTIKVEGKLEDG---TKVDVFESLTFVLGDGDVIAQAWD
XP_014897626	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_014848641	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_014848639	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_007566466	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_023180976	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
KMQ91381	LKKRVIRKG--ENGTRPNRGDICTLNTIGKLE-DS--KVVEEYENLVIQLGDMEVIOGLD
XP_007566465	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_014897625	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_015254615	LRKKVLEPG-DIQVPHSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_005798327	LRKKILESG-DEQVPRSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_015254612	LRKKVLEPG-DIQVPHSTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_013980328	LRKKVLAPG-PQKAEHPAWGQEVTVKMQGVLEDR---SVVEKDPKLVFVIGEGDVIQALE
XP_009061784	LTKKVLVQG-NGRESRPDRGDIVTLDIEGHLSDG---TAVDKYTAFTFPLGEGDVIQALD
XP_022106769	LMKKILREG-QGAASRPQRGEMVTLKSKGLLEDG---TEVDCHEAISFVLGEGDVVSAWD
XP_020625955	LKKRVLRQG-KGQDTRPDKGQRVTIQVAGRTEDG---TGVDWNSSLEFILGEGEVIQAFD
XP_020625956	LKKRVLRQG-KGQDTRPDKGQRVTIQVAGRTEDG---TGVDWNSSLEFILGEGEVIQAFD
XP_010732628	LRKKVLESS-APNALSPTWGQEVSVKMQCVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_015728921	LRKRVVRDG-TG-G-APEPGQEVSVKVLGALQDG---AVVERDPRLSFVPQGQDVIQALE
XP_003440659	LRKKVLEPG-TPQGPHPAWDQEVTVKMQCVLEDR---TVVEKDRKLVFVIGEGDVIQALE
XP_014004032	LRKKVLVPG-PQKAEHPAWGQEVTVKMQGVLEDR---TVVEKDPKLVFVIGEGDVIQALE
XP_010899928	LRKKVLEPG-PQKAEHPAWGQEVTVKMQGLLEDG---TVVEKDPKLVFVIGEGDVIQALE
XP_020336380	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_022330049	LKRKILSKA-PKNAKRPISSDVVTIKVEGNLEDG---TKVDVFESLTFVLGDGDVIAQAWD
PIK48936	LQKKILTPG-KGHTTRPKADQIVTLRTKGWLEDG---TEIDWNDSITICLGDGDAVQAWD
XP_020336379	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDPKLVFVIGEGDVIQALE
XP_022330048	LKRKILSKA-PKNAKRPISSDVVTIKVEGNLEDG---TKVDVFESLTFVLGDGDVIAQAWD
XP_007907980	IQKKILREG-FGDASRPFMGQEVTMKLQGLLEDG---TIVDRDPKLTFFVIGDGDVIAQALE
XP_013859000	LRKKVLEPG-DAQVPLPSWGQEVTVRLQGVLEDR---TVVEKDCKLVFVIGESDVIQALE
XP_019737313	LGKKVLEPA-APGAPRPVRGQQAAMQAVLEDR---TVVEKDRELLFTIGEGDVSQALE
XP_021427237	LRKKVLAPG-PQKAEHPAWGQEVTVKMQGVLEDR---SVVEKDRKLVFVIGEGDVIQALE
XP_023827235	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_023827230	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_008309233	LRKKVLEPV-EPHVPHPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_024269308	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_002932306	LKKKILKAG-HGKATIPLPGQEVTVHLMGILEDG---SLVEKDCKLVFVIGEGDVIQALE
XP_022785584	LQKRVLRG-KGQDTRPDKGQRVMIQSAGRTEDG---TAVDWNSSLEFILGEGEVIQAFD
XP_008309234	LRKKVLEPV-EPHVPHPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_013386268	LKKKVLKKG-DGLSSRPQGRQRPVISFSAHTEDG---TVVDSETQLMITLGDGCDVQAMD
XP_005928731	LRKKVLEPG-TPQGPHPAWDQEVTVKMQCVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_002119960	LKKKTVTKG-QGRDTRPERGQEVTVLDTLRSSDG---TILEEMHSVTFILGDHEVPESLD
XP_024235293	LRKKVLAPG-PQKAEPHSAWGQEVTVKMQGVLEDR---SVVEKDRKLVFVIGEGDVIQALE
XP_005729996	LRKKVLEPG-TPQGPHPAWDQEVTVKMQCVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_018619414	LRKKVLEQG-PEPSSRPWTWGQEVTVRLQGVLEDR---TVVEKDSKLVFVIGEGDVIQALE
XP_012796312	I I K K T L K K G - L G G E T R P S H G D S V V V N Y K C W L E D G --- T L V D D A E N V K M V L G D G D I I H A F D
XP_004553258	LRKKVLEPG-TPQGPHPAWDQEVTVKMQCVLEDR---TVVEKDCKLVFVIGEGDVIQALE
CDQ72337	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_024269303	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE
XP_024269307	LRKKVLVPG-PQQAEPHSAWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVIQALE



XP_024269300	LRKKVLVPG-PQQAHPAWGQEVTVKMQGVLEDR---TVVEKDPKLVFVIGEGDVNQALE
XP_017893134	LKKKVIKQG--KNGTRPNRSDICILDIIGKLQ-DG--TKVEEYKNLKIQLGDVEVIQGLD
XP_021454564	LRKKVLVPG-PQQAHPAWGQEVTVKMQGVLEDR---TVVEKDPKLVFVIGEGDVNQALE
XP_003967095	LRKKVLESS-DPSGSPSPSWGQEVTVKMQGVLEDR---TVVEKDSKLVFVIGEGDVNQALE
XP_021454548	LRKKVLVPG-PQQAHPAWGQEVTVKMQGVLEDR---TVVEKDPKLVFVIGEGDVNQALE
XP_023697743	LRKKIVQQG-LQQWTRPVWGQEVTVKLGILEDR---TVVEKDSKLVFVTGEGDVHQALE
PIK51124	LLKKILTPG-KGRTTNPKADQIVTLRTKGWLEDG---TEVDWNDSITICLGDGDAVQAWD
XP_020311464	LRKKVLAPG-PQKAHPAWGQEVTVKMQGVLEDR---SVVEKDRKLVFVIGEGDVNQALE
XP_017261735	LRKKVLKPG-NPQVPGPSWGQEVTVRMQGVLEDR---TVVEKDCNLVVFVIGERDVIQALE
XP_011312767	LRKKTLTKG--TNNTRPQRNDICTIDIVGRLE-DGT-E-VECLPDFVQVLGDVELIQGLD
XP_022047038	LRKKVLKCG-TLQAPHPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_003427294	LRKKVLKAG--KENSRRPNRSDVCVLKFTGRLE-DG--TIVEEEEDIKIQLGDMEVIQGLD
XP_020139363	-----GPG--GFAQRGPDGSGSGAASAPALFVP---PTPQPHFPIASVRGESDTWGAHS
XP_011661975	LRKKVLKAG-QGEAARPDGRGMAMTVRYKGMLEDG---TEVEGEEKATFTQGEGEIVQAI
XP_021263191	LRKRVRVDG-QG-G-APQPGQEVSVKVLGALEDG---GLVERDPRLSFVPGQGDVAQALE
XP_005110253	LKKKVLVPG-K-EDTRPTNGDTVIRVDGVLENG---THVD-VQDFTFILNDGDVILAFD
OCT89685	LKKKILKAG-RGRATIPLPGQEVTVIHLMGILEDG---SLVEIDPKLSFVLDEGDVIQALE
XP_018106932	LKKKILKAG-RGRATIPLPGQEVTVIHLMGILEDG---SLVEIDPKLSFVLDEGDVIQALE
XP_022609905	LRKKVLEPV-APHSCLPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_023278137	LRKKVLEPV-APHSCLPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_023151164	LRKKVLKCG-TLQAPHPTWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
OON20683	ITKKILTKG-LGRESRPNHGDVLEISFKGYLEDG---TIVDDVASMVCTLGDGDVIALD
XP_014340350	LRKKIMKEG-DTEAAKPLPGQEVTVKLGAMEDG---TFVEKDPKLVFVIGEGDVNQALE
XP_012284026	LIKTVLKPG--KKGTRPNKSDICTLKMSGKLE-DG--TIVEEYEELIIQLGDVEVVQGLD
OAD61952	LKMKVIKSG--KDGTRPNRSDICILKIIGKLK-DG--TIVEEYEDLKIQLGDVEVIQGLD
XP_023962949	LRKLLVREG-QGEASRPQPGQEVTVKLLGVLEDG---SLVEKDPKLVFILEQGDVIQALE
XP_008121023	LRKCLVKQG-HG--SRPQAGQEMAVKLLGALEDG---SLVERDPRLTFVLGQWEAIQALE
XP_017763036	LKMKVIKSG--KDGTRPNRSDICILKIIGKLK-DG--TIVEEYEDLKIQLGDVEVIQGLD
XP_017691650	LRKRVRVAG-LG-GPQPRPGQEVSVKVLGALEDG---GLVERDPRLTFVPGHGDVVQALE
XP_012710521	LRKKVLQSG-DIHVPHTWDQEVTVKMQGVVEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_015819997	LRKKVLQNG-DSQVLHPVWGQEVTVKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_023962948	LRKLLVREG-QGEASRPQPGQEVTVKLLGVLEDG---SLVEKDPKLVFILEQGDVIQALE
XP_019921720	LKRKILRAA-AKNAKRPISSDLVTIKVEGKLEDG---TKVDVYDLSLFLGDGDVIAWD
XP_020904887	LKRKILREG-KGRDTRPDRGQIVMIRTAGRLSDG---TPVDWNQCLDFILGEGEVIQAWD
XP_024138547	LRKKVLKCG-DVQVPRPTWGQEVTIMMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
AWP08482	LRKKVLEPV-APHALSPIWGQEVTKMQGVLEDR---TVVEKDRKLVFVIGEGDVNQALE
CDQ67637	LRKKVLAPG-PQKAHPAWGQEVTVKMQGVLEDR---SVVEKDRKLVFVIGEGDVNQALE
XP_011423840	LKRKILRAA-AKNAKRPISSDLVTIKVEGKLEDG---TKVDVYDLSLFLGDGDVIAWD
XP_014808190	LRKRVRVDG-QG-GPRPQPGQEVSVKVLGALEDG---GLVERDPRLTFVPGHGDVVQALE
XP_007059625	LRKLLVREG-QGEASRPQPGQEVTVKLLGVLEDG---SLVEKDPMLTFTLEQGDVIQALE
XP_024138546	LRKKVLKCG-DVQVPRPTWGQEVTIMMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
EMP36068	LRKLLVREG-QGEASRPQPGQEVTVKLLGVLEDG---SLVEKDPMLTFTLEQGDVIQALE
XP_024138543	LRKKVLKCG-DVQVPRPTWGQEVTIMMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
OXU31097	LRKKVLKAG--KENSRRPNRSDVCVLKFTGRLE-DG--TIVEEEEDIKIQLGDMEVIQGLD
XP_022202921	LKKKVIREG--KPDTRPQRADICQVKFEGRL-NGE--IIEKEDCLTINIGDGEVIQGLD
XP_006557516	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_016770764	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_006615021	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_008546855	LKKKTIVKG--QKGTTPNQDGLCTVDITGSLTPDGK-EVIETLKAFTVQLGDHEVIQGLE
XP_006557515	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_007254541	LRKKVLEAG-PERAPCPVWGQEVTLKMQGVLEDR---TMVEKDCKLVFVIGEGDVNQALE
XP_006615020	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_006557514	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_011053698	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQNNISIQLGDFEIVQGLD
XP_007254540	LRKKVLEAG-PERAPCPVWGQEVTLKMQGVLEDR---TMVEKDCKLVFVIGEGDVNQALE
XP_006615019	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_016913411	LKKKVIKNG--KNGTRPNRSDMCTLKIIGKLK-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_017559733	LRKKILEPG-PEQAPCPVWGQEVMLKMQGVLEDR---TMVEKDSKLVFVIGEGDVNQALE

PKU40687	LRKRVVQDG-QG-GPRPQPGQEVSVKVLGALEDG---GLVERDPRLTFVPGHGDVVQALE
XP_016913410	LKKKVIKNG--KNGTRPNRSDMCTLKIIGKLG-DN--TIVEKYEDLKIQLGDVELIQGLD
EGI65888	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQNNISIQLGDFEIVQGLD
XP_014252350	LKKKVLKPG-EP-DSRPTKPDVCEISFEGRLEDG---TVVDKEDRIEVFLGDNDTAQGID
XP_012165944	LRKKVIKSG--KNGTRPNRSDICTLKIIGKLG-DG--TVEEYEDLKIQLGDVEVIQGLD
XP_016913409	LKKKVIKNG--KNGTRPNRSDMCTLKIIGKLG-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_011053696	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQNNISIQLGDFEIVQGLD
XP_019934661	LRKKVLEPA-APLVPCPTWQGEVAIKMQCVLEDR---TVVEKDRKLVFVIGEGDVNQALE
XP_008304064	LRKKVLERG-TLQAPHPTWQGEVAVKMQCVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_011053695	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQNNISIQLGDFEIVQGLD
CAX74525	VVIKTLRKG-LGRETRPSHGD TVVINYKGWLEDG---TLVDDVENAKIVLGDGDVIHAFD
XP_023811597	LRKKVLKSG-DVQIPHPTWQGEVTVMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
EFZ15418	LKKKVIQKG--KENVKPHKGDICTIKMSGVLD-DN--TVVEDYDNLTIQIGDLEVVQGLD
OPJ70235	LRKRVRDG-QD-EPRPRPGQEVSVKVLGVLDG---GLVERDPRLTFVPGHGDVVQALE
AAX27902	VVIKTLRKG-LGRETRPSHGD TVVINYKGWLEDG---TLVDDVENAKIVLGDGDVIHAFD
XP_011053694	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQNNISIQLGDFEIVQGLD
XP_011164040	LKKKVIQKG--KENVKPHKGDICTIKMSGVLD-DN--TVVEDYDNLTIQIGDLEVVQGLD
XP_011150605	LKKKVILKG--KNGTRPNRGDICTLKIIGKLG-NNQ-KIVENYEDFVIQLGDVEVVQGLD
EFN77170	LKKKVILKG--KNGTRPNRGDICTLKIIGKLG-NNQ-KIVENYEDFVIQLGDVEVVQGLD
XP_011164039	LKKKVIQKG--KENVKPHKGDICTIKMSGVLD-DN--TVVEDYDNLTIQIGDLEVVQGLD
AAH90698	LKKKVLQAG-PENALTPAWGQEVTLKMQGVLEDR---TVVEKDSKLVFIIIGEGDVTQALE
XP_014606393	LRKKVIEKG--QNGTRPNTTDYCTLKIIGKLE-AG--KIVEEHENITIQIGDVEVVQGLD
XP_003700328	LRKKVIRKG--KNGTRPNTSDICTLKIIGKLG-DG--TVEEYELKIQLGDVEVIQGLD
XP_683608	LKKKVLQAG-PENALTPAWGQEVTLKMQGVLEDR---TVVEKDSKLVFIIIGEGDVTQALE
XP_014606392	LRKKVIEKG--QNGTRPNTTDYCTLKIIGKLE-AG--KIVEEHENITIQIGDVEVVQGLD
XP_023726255	LKKKVLKRA--ENGYRQSRSHICEINLQGS LP-DGT--IIDKHDHLSIQIGDAE VVQGLD
XP_011404052	LLKKILKPG-DGVSSRPSPLSEVTMRVLGSLPNG---TVIDKHNSLRFIVSDGDVVQAVD
XP_018337850	LMKKVIKKG--TQDVKPIQKDICTLKFTGVLD-DG--TVVEDQDNVSIQLGDFE VVQGLD
XP_023726263	LKKKVLKRA--ENGYRQSRSHICEINLQGS LP-DGT--IIDKHDHLSIQIGDAE VVQGLD
XP_012689022	LRKKVQEPG-PPEAQGPAGQOVTLKMQGVLEDR---MVVEKDTKLVFVIGEGDVNQALE
XP_015190182	LRKKVIEKG--QSGTRPNTTDYCTLKIIGKLE-SG--KIVEEHENITIQIGDVEVVQGLD
XP_024943519	LRRKIIKLG--EKGNRPNASDICTLKIIGKLE-DG--TVEEYELTIQIGDIEVIQGLD
XP_015437909	LKKRVIRKG--KHGTRPTRSDICTLKIIGKLT-DG--TVEEYENLKIQLGDVEVIQGLD
KYN13005	LMKKIIKKG--TKDVKPIQKDVCTLTFTGVLD-DG--IVVEDQDNVSIQLGDFE VVQGLD
XP_024943518	LRRKIIKLG--EKGNRPNASDICTLKIIGKLE-DG--TVEEYELTIQIGDIEVIQGLD
XP_012526171	LKKKVIQKG--EENVKPHNGDMCTIKMIGKLD-DG--TVVEDYNNLTIQIGDMEVIQGLD
XP_012237396	LKKKVIKSG--KNGTRPNRSDICTLKIIGKLG-DG--TVEEYEDLKIQLGDVEVIQGLD
XP_018372055	LMKKIIKKG--TKDVKPIQKDVCTLTFTGVLD-DG--IVVEDQDNVSIQLGDFE VVQGLD
XP_015600846	LRRKIIKLG--EKGNRPNASDICTLKIIGKLE-DG--TVEEYELTIQIGDIEVIQGLD
XP_018372054	LMKKIIKKG--TKDVKPIQKDVCTLTFTGVLD-DG--IVVEDQDNVSIQLGDFE VVQGLD
XP_023811598	LRKKVLKSG-DVQIPHPTWQGEVTVMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_013086934	LIKKILTAG-YGIDTRPTNGDIVTLKVEGRREDG---KLVD-NEEITFYLN DGDVILAFD
XP_012340112	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLG-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_012064601	LMKKVIKKG--TKDVKPIQKDICTLKFTGMLD-DG--TVVEDQDNISIQLGDFEVIQGLD
XP_021933338	LKKKILKRA--ESSYRQSRSHICEINLEGR LP-DGT--IVDKHDHLSIQIGDAE VVQGLD
XP_020469449	LRKNVLKPG-DLNALCPTWQGEVTVMQCVLEDR---TVVEKDSKLVFVIGEGDVNQALE
XP_012340111	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLG-DN--TIVEKYEDLKIQLGDVELIQGLD
XP_014772499	LTKSIVKKG-DGVLTRPLQGQKVT LKTEGLLPDG---TVIDKNESISFILGDGDVISGWD
XP_021933337	LKKKILKRA--ESSYRQSRSHICEINLEGR LP-DGT--IVDKHDHLSIQIGDAE VVQGLD
XP_002425448	LKLKTIKQG--EPDSRPQANDICEIRLLGKLN-DG--KIVENFDSLKIELGSHEVVQGE
XP_018053112	LMKKVIKKG--TKDVKPIQKDICTLKFTGVLD-DG--TVVEDQDNISIQLGDFEVIQGLD
XP_023811595	LRKKVLKSG-DVQIPHPTWQGEVTVMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_003692338	LKKKVIKNG--KNGTRPNRSDICTLKIIGKLG-DN--TIVEKYEDLKIQLGDVELIQGLD
KQK73886	LRKRVRDG-QD-GLRPRPGQEVSVKVLGALEDG---GLVERDPRLTFVPGYGDVVQALE
XP_021933339	LKKKILKRA--ESSYRQSRSHICEINLEGR LP-DGT--IVDKHDHLSIQIGDAE VVQGLD
XP_018025482	LKKKVLVAG--IVETRPVRGDTVCIELTMRLS-DG--TLVEDTHTLYFTLG DSEVIPGLD
XP_019335449	LRKRVVQQG-RGESTRPCPGQEVTVKLLGVLEDG---SLVEKDPALRFTLGQGDVVQALE
XP_014772498	LTKSIVKKG-DGVLTRPLQGQKVT LKTEGLLPDG---TVIDKNESISFILGDGDVISGWD

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XP_014772494	LTKSIVKKG-DGVLTRPLQGQKVTIKTEGLLPDG---TVIDKNESISFILGQDGVISGWD
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XP_020392992	LKKKILKYG-NVKLERPGKGQNVKIWVKIMHENG---VILGRQRLSFTINGTQDVKALE
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XP_016345079	LRKKVLQAS-PENVLTPAWGQEVTLKMQGVLEDR---TVVEKDCKLVFVIGEGDVNQALE
XP_014106477	LRKRVRAG-PG-GPRPLPGQEVSVKVLGALEDG---GLVERDPRLIFVPGHGDVVLALD
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KOC65132	LKKKVLKKG--KNGTRPNRSDICTLNIIGKLE-DD--TTVENYEDLKIQLGQDVEVIQGLD
XP_017790334	LKKKVLKKG--KNGTRPNRSDICTLNIIGKLE-DD--TTVENYEDLKIQLGQDVEVIQGLD
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XP_018649440	----TLKKG-LGGETRPSHGDSVVVNYKCWLEDG---TLVDDVEDVKMVLGQDGVVQGLD
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XP_015109871	LKKKTLIKG--KKNTRPQRNDICTINIVGKLE-NGK-E-VECFIDVAIQLGQDVELIQGLD
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XP_011870270	LKKRVIRKG--EKGMREPKGDICTINFVGKLC-DG--TEVEKEDHLSIQVGDLEVIQGLD
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XP_014206998	LRKKVVKPG--KDNTNPNRLDLCMSFTVKLE-DG--TIVDEAEDLIVQVGDVEYTOGLD
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XP_015929100	FKKLVIKKG-NGHETRPEKGDRTVRLSCFVND---KLVEEQENLQVIVGDMQDVIQGLD
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XP_024353326	VEKKVLKKG-LGQGSRPGHGDVVISYKQWLEDG---MLVEEVENLSLVIGDGECIHAFD
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XP_011949836	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_007993998	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_014978796	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_009251263	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_011747747	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_017822960	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_009192157	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_010328454	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_011845855	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_012299012	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_011949833	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV

XP_017356795	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_014401247	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
EPQ12447	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_008154612	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_016066232	LSIPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_012584673	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_015413209	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_022262557	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_023103313	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_019271925	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_007088417	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_002761955	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_014921066	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_005972346	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_006058025	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_017905457	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_019271923	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_008542456	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKMAV
XP_006186302	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_006199114	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_010970466	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_024416679	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_005652984	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKAAV
XP_014687059	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKMAV
XP_015344756	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_012299010	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_019819388	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
ELW67147	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_005873908	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_016066229	LSIPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_008154611	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_020740155	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_003982130	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_019271924	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_007088416	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_541935	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_012419293	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_004688664	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_015413208	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_010993437	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_006058026	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_014921065	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_001503379	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKMAV
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XP_019271926	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_006186301	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_006199113	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_010970465	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_003123564	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKAAV
XP_024416678	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
NP_001192650	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_006147177	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_020740156	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV

XP_014687058	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKMAV
XP_004404706	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_019819387	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_020008573	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_007116995	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
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XP_012391225	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_020740154	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_022414296	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_021587090	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_019592316	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKMAV
XP_023989754	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_004277581	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_017651479	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
XP_022414295	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_017651477	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
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XP_007195521	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKAAV
XP_019592317	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKMAV
XP_005001666	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_008822765	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_017651474	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_013002970	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_012924198	LSAPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
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XP_012924197	LSAPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_007943554	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
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XP_008048663	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKMAV
XP_019652974	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_008702161	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_019497623	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_007943555	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_002912777	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
EFB19124	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_013362739	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_006876371	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_021493693	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
XP_022353383	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
NP_001272500	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHATLCLEVTLKTAV
XP_012916133	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_011365085	LSVPLMEVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_006885938	LSVALMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_004423006	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVILKTAV
XP_012413338	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_010591524	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_008048662	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKMAV
XP_015987916	LSVPLMEVGETAMVTADSKYCYGSQG-----RSPY---IPPHAALCLEVTLKTAV
XP_004666075	LSVPLMDVGETAMVTADSKYCYGPQGS-----PY---IPPHAALCLEVTLKTAV
XP_019497624	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_004649071	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
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XP_013362738	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV

XP_012509480	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
NP_034353	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
XP_021074830	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
XP_006876370	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_021493691	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_006904374	LSVPLMEVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_006989222	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
XP_004423005	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVILKTAV
XP_006885939	LSVALMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPNAALCLEVTLKTAV
XP_004666073	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
ELK19193	LSVPLMEVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_003499206	LSVPLMDVGETAMVTADSKYCYGSQG-----RSPY---IPPHAALCLEVTLKTAE
XP_014637207	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVILKTAV
XP_012790031	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKAAV
XP_003413066	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_004384434	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_015987917	LSVPLMEVGETAMVTADSKYCYGSQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_021078721	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
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XP_017168055	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
NP_001032257	LSVPLMHVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_004595597	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_017529992	LSVPLMEVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_005370624	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKMAE
NP_001104536	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_021074828	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_012664880	LSVPLMDVGETAMVTADSKYCYGPQG-----WSPY---IPPHAALCLEVSLKTAV
XP_006989221	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_007635977	LSVPLMDVGETAMVTADSKYCYGSQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_004616706	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKAAV
XP_012664879	LSVPLMDVGETAMVTADSKYCYGPQGC-----RSPY---IPPHAALCLEVSLKTAV
XP_004705311	LSVPLMEVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLQTAE
XP_017168054	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_021026690	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAE
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XP_017529990	LSVPLMEVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_005370622	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKMAE
XP_012883833	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKSAV
XP_021026691	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
XP_010849455	FSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_010604777	LSVPLMDVGETAMVTADAKYCYGPQGX-----XXXY---IPPHAALCLEVTLKTAV
XP_004705310	LSVPLMEVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLQTAE
XP_021026689	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAE
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XP_012883832	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKSAV
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XP_022414294	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
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XP_022414293	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_023055022	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
ELR54589	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_010845609	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_021538869	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
KFO22602	LSVPLMDVGETAMVTADAKYCYGPQG-----SGD---AP---GLVAVVTLKTAV
2MF9_A	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
PNI50452	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTA-
PNJ28404	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTA-



XP_007533227	LSIPLMDVGESAMVTADSKYCYGPQGS-----RSPC---VPPDAALCLEVTLLAAA
XP_020864537	LSVQLMNVGETALIIADAKYCYGPHG-----RSPT---IPPNSTLRLEVALQTAA
XP_012397649	LSVQLMNVGETALIIADAKYCYGSCG-----RSPA---IPPNSTLRLEVALQSAV
XP_001369403	LSVQLMNVGETALIIADAKYCYGSHG-----RSPT---IPPNSTLRLEVALQTAV
2F2D_A	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
2D9F_A	LSVPLMDVGETAMVTADSKYCYGPQGS-----RSPY---IPPHAALCLEVTLKTAV
XP_015668943	LCVQLMDMGETALITSDGKYCFGPQG-----RSPD---IPPNAFLTLEVELLAAQ
2AWG_A	LSVPLMDVGETAMVTADSKYCYGPQG-----RSPY---IPPHAALCLEVTLKTAV
XP_015668942	LCVQLMDMGETALITSDGKYCFGPQGS-----RSPD---IPPNAFLTLEVELLAAQ
XP_025032464	LCVQLMDMGETALITSDGKYCFGPQG-----RSPD---IPPDASLTLEVELLAAQ
XP_007443923	LCVQLMDMGETALITSDGKYCFGPQG-----RSPD---IPPDASLTLEVELLAAQ
KFV73372	LCVQLLEMGETALIMSDAKYCYGPQG-----RSPD---IPPNAALTLEVELLEAR
OXB56359	LCVQLMEMGETALIMSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLEAR
XP_009675861	LCVQLLEMGETALIMSDAKYCYGPQG-----RSPD---IPPNAALTLEVELLEAR
OXB73131	LCVQLMEMGETALIMSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLEAR
XP_010723402	LCVQLMEMGETALIMSDAKYCYGVQG-----RSPD---IPPNAALTLEVELLEAQ
KFV67807	LCVQLLEMGETALIQSDAKYCYGLQG-----RSPD---IPPNAALTLEVELLAAR
XP_010304001	LCVQLLEMGETALIVSDAKYCYGSQG-----RSPD---IPPDAAALTLEVELLAAQ
NP_001241668	LCVQLMEMGETALIMSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAR
KF003599	LCVQLLEMGETALIVSDAKYCYGSQG-----RSPD---IPPDAAALTLEVELLAAQ
XP_021234495	LCVQLMEMGETALIMSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAQ
POI29828	LCVQLMEKGETALIMSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAQ
XP_021234496	LCVQLMEMGETALIMSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAQ
XP_023963943	LCVQLMEMGETASILSDAKYCYGPQG-----RSPD---IPPHAALTLEVQLLAVQ
XP_014793985	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLKAQ
XP_009899401	LCVQLLEMGETALIQSDAKYCYGLQG-----RSPD---IPPNAALTLEVELLAAR
XP_015742210	LCVQLMEMRETALITSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAR
XP_009641057	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLSAR
KFP19261	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLSAR
XP_024065593	LCVQLMEMGETASILSDAKYCYGPQG-----RSPD---IPPHAALTLEVQLLAVQ
XP_011594878	LCVQLLEMGETALIVADAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAQ
XP_014742726	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
XP_015742208	LCVQLMEMRETALITSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAR
XP_019369180	LCTQLLETGETASILSDAKYCYGPQG-----RSPD---IPPNAALALEVELLAVQ
XP_010561556	LCVQLLEMGETALIVADAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAQ
XP_008638175	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_002195923	LCVQLLEMGETALIMSEAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
XP_015266773	LCVQLMEMGETALIQSDPKYCHGSQG-----RSSD---IPPDAAALTLEVELLAAR
XP_005505599	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNATLTLEVELLAAQ
XP_014115778	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_014742725	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_018780521	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNASLSLEVELLAAR
XP_005235043	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
OPJ86694	LCVQLLEIGETALIVSDAKYCYGAQG-----RSPD---IPPNATLTLEVELLAAQ
XP_019341692	LCTQLLEMGETALITSDAKYCYGPQG-----RSPG---IPPNTALTLEVELLAVQ
XP_021400798	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLRLEVELLAAR
XP_006028906	LCTQLLEMGETASITSDAKYCYGPQG-----RSPG---IPPNAALTLEVELLAVQ
KFQ97904	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAR
XP_015507158	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
KFW12711	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNASLTLEVELLEAR
XP_006271082	LCTQLLEMGETALITSDAKYCYGPQG-----RSPG---IPPNTALTLEVELLAVQ
KF081655	LCVQLLEMGETALIVSDAKYCYGTQG-----RSPD---IPPNAALTLEVELLAAQ
XP_007072098	LCAQLLEMGETALIMSDAKYCFGPQG-----RSPD---IPPHAALTLEVQLLAVQ
XP_020669929	LCVQLMEMGETAMILSDAKYCYGPQG-----RSPD---VPPDASLAFEVLLSAR
XP_009464539	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAR
XP_010158039	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNASLTLEVELLEAR
XP_019149030	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_020669930	LCVQLMEMGETAMILSDAKYCYGPQG-----RSPD---VPPDASLAFEVLLSAR

XP_019393900	LCTQLLETGEMASIVSDAKYCYGPQG-----RSPD---IPPNAALTLEVELLAVQ
EMP24085	LCAQLLEMGETALIMSDAKYCFGPQG-----RSPD---IPPHAALTLEVQLLAVQ
XP_009566597	LCVQLLEMGETALIVSDAKYCYGTQG-----RSPD---IPPNAALTLEVELLAAQ
KFW65305	LCVQLLEMGETALIMSDAKYCYGAQG-----RRPD---VPPNAALALEVELLGAR
XP_015507157	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_013799130	LCVQLLEMGETALIVSDAKYCYGSQG-----RSPD---IPPNAALTLEVELLEAR
XP_014433658	LCAQLLEMGETALIVSDAKYCYGPQG-----RTPD---IPPHATLTLEVELLAAQ
XP_009319696	LCVQLLEMGETALIMSDAKYCYGAQG-----RRPD---VPPNAALALEVELLGAR
KFQ36923	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAQ
XP_005060257	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAQ
KFU87694	LCVQLLEMGETALIMSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAQ
XP_005139681	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAR
XP_009993397	LCVQLLEMGETALIMSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAQ
AAH84415	LCVQLMEVGETSLIASDAKYCYGKEG-----RSPD---IPPNSNLNLEVTLDDVQ
KQL50954	LCVQLLEVGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLEAR
NP_001088346	LCVQLMEVGETSLIASDAKYCYGKEG-----RSPD---IPPNSNLNLEVTLDDVQ
XP_013913386	LCVQLMDMGETALITSDGNYCFGPLG-----RIPD---IPPCASLTLEVELLTAQ
KFQ13009	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNAAITLEVELLVAR
KFQ75436	LCVQLLEMGETALIVSDAKYCYGTQG-----RSPD---VPPNAALTLEVELLAAR
KFP56346	LCVQLLEMGETALIVSDAKYCYGSQG-----RSPD---VPPNAALTLEVELLAAR
KFM07869	LCVQLLEMGETALIMSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLGAR
XP_018096952	LCVQLMEEGETSLIASDAKYCYGKEG-----RSPD---IPPNSNLNLEVTLVVQ
KFP65829	LCVQLLEMRETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
XP_023803625	LCVQLLEMGETALIVSEAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_009951725	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNAAITLEVELLVAR
NP_001120570	LCVQLMEAEETSLIASDAKYCYGKEG-----RSPD---IPPNSNLNLEVALLDVQ
KFP23912	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNAALTLEVELLAAR
XP_010073720	LCVQLLELGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
KGL86304	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAR
KFV08597	LCVQLLELGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
KFW76752	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
XP_009700019	LCVQLLEMRETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAR
XP_010208130	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---VPPNAALTLEVELLAAR
KFQ81502	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAQ
XP_017938939	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAR
KFP70760	LCVQLLEMKETALIVSDAKYCYGAQG-----RSPD---IPPNTSLTLEVELLAAR
XP_009880959	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---VPPNAALTLEVELLAAR
XP_010292010	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNAALTLEVELLAAQ
XP_009076312	LCVQLLEMKETALIVSDAKYCYGAQG-----RSPD---IPPNTSLTLEVELLAAR
XP_018412986	LCVQLMELGETALIEADAKYCYGKQG-----RDPD---IPPNADLLLEVSLLEVQ
XP_022525503	LTVQLMEIGEALVEAGSKYAYGALGS-----STPA---VPPHADLILEIQLLSAA
XP_021459512	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_021459510	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_024277334	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_024277330	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_024277333	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_009512288	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAQ
XP_020354512	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
KFZ50883	LCVQLLEMGETALIVSDAKYCYGVQG-----RSPD---IPPNAALTLEVELLVAK
KFW81721	LCVQLLEMGETALIVSDAKYCYGAQG-----RSPD---IPPNASLTLEVELLAAQ
CDQ57258	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_020354513	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_020487811	LSVQLMEKGEKALIQTDAKYAYGARGS-----YEPE---IPPNAPLCLEVELKEAT
XP_024277331	LTVQLMEMGETALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_014071869	LTVQLMEMGEKALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_011472153	LTVQLMEMGEKALIQSDPKYAYGDRGS-----LEPR---VPPNAQLSLEVELLEAT
XP_014071870	LTVQLMEMGEKALVQADAKYAYGALGS-----LAPE---VLPSADLALLEVQLLDAT
XP_024114895	LTVQLMEMGEKAEIQADAKYAYGDRGS-----LEPA---VPPNATLSLEVELLEAT

XP_024114896	LTVQLMEMGEKAEIQADAKYAYGDRGS-----LEPA---VPPNATLSLEVELLEAT
ETE64390	LCVQLMDMGETALITSDGKYCFGPOG-----RYMR---KWTEAGLLARVELLTAQ
XP_023809890	LTVQLMEMGEKALIQSDPKYAYGDRGS-----LEPR---VPPNAQLSLEVELLEAT
XP_008499209	LCVQLLEMGETALIVSDPKYCYGAQG-----RSPD---IPP NATLTLEVELLGAR
KFP06384	LCVQLLEMGETALIVSDPKYCYGAQG-----RSPD---IPP NATLTLEVELLGAR
XP_023859426	LIVQLMEMGEKALVQADAKYAYGALGS-----LAPE---VLPNADLALLEVQLLDAT
XP_023859424	LIVQLMEMGEKALVQADAKYAYGALGS-----LAPE---VLPNADLALLEVQLLDAT
XP_023859423	LIVQLMEMGEKALVQADAKYAYGALGS-----LAPE---VLPNADLALLEVQLLDAT
XP_021454666	LTVQLMEMREKALVQANAKYAYGALGS-----LAPD---VPPNAALALEVQLLDAT
XP_017572299	LTVQLMEMGEKALVEAGAKYAYGALGS-----STPA---VPPDADLIMEVQLLSAA
CDQ97962	LTVQLMEMREKALVQANAKYAYGALGS-----LAPD---VPPNAALALEVQLLDAT
XP_023854736	LTVQLMEMREKALVQANAKYAYGSLGS-----LVPE---VPPNAELALEVQLLDAT
XP_018920592	LTVQMMEMGEKALIEAGAKYAYGALGS-----STPA---VPPDADLMLEVQLLSAD
NP_001133417	LTVQLMEMREKALVQANAKYAYGALGS-----LAPE---VPPNAELALEVQLLDAT
XP_023854735	LTVQLMEMREKALVQANAKYAYGSLGS-----LVPE---VPPNAELALEVQLLDAT
XP_024258320	LTVQLMEMREKALVQANAKYAYGALGS-----LAPD---VPPNAELALEVQLLDAT
AAI52651	LTVQLMEMGEKALIEAAAKYAYGALGS-----SAPA---VPPDADLLLEVQLLSAD
XP_020348060	LTVQLMEMREKALVQANAKYAYGALGS-----LVPD---VPPNAELALEVQLLDAT
NP_957178	LTVQLMEMGEKALIEAAAKYAYGALGS-----SAPA---VPPDADLLLEVQLLSAD
XP_005932512	LTVQLMAMGEEALIQTDAKYAYGARGSG-----LEPA---VPANAELSLEVKKLEAT
XP_013860095	LTVQLMEIEEKALIH TD AKYAYGVRGS-----LDPE---IPPNASLSLEVELLEAT
PWA20923	LTVQLMEMGEKALIH TD AKYAYGARGSG-----LEPE---VPPNAQLSLEVELVKAT
XP_005727139	LTVQLMALGEEALIQTD AKYAYGARGSG-----LEPA---VPANAELSLEVKKLEAT
XP_006790401	LTVQLMAMGEEALIQTD AKYAYGARGSG-----LEPA---VPANAELSLEVKKLEAT
XP_019207270	LTVQLMAMGEEALIQTD AKYAYGARGSG-----LEPA---VPANAELSLEVKKLEAT
XP_024654530	LTVQLMALGEEALIQTD AKYAYGARGSG-----LEPA---VPANAELSLEVKKLEAT
XP_007897075	LCVQLMELDETAQIIISDSKYAYGTRGS-----TQPA---IPPSARLHMEVQLVDVE
XP_010870009	LSVQLMEMGEKALVQADAKYAYGTLES-----LSPP---VPPSADLSLEVQLLDAT
XP_022615368	LTVQLMEMGEKALIQTD AKYAYGTRGS-----LEPE---VPPNTELSLEVDDLLEAT
XP_010870008	LSVQLMEMGEKALVQADAKYAYGTLES-----LSPP---VPPSADLSLEVQLLDAT
XP_005795669	LTVQLMEMGEKALIH TD AKYAYGARGSG-----LEPE---VPPNAQLSLEVELVKAT
XP_020391166	LCVQLMDQNEVALIVSDAKYAYGSLGS-----SEPS---VPSNATVHLEVQLLSVG
AWP11099	LTVQLMEMGEKALIQTD AKYAYGTRGS-----LDPE---VPPDAELSLEVELLGAT
XP_017333233	LTVQLMEMGEKALIEASAKYAYGALGSN-----STPV---VPPNADLILEVHLLSAV
KTF74275	LTVQLMEMGEKALIEAGAKYTYGALGS-----STPA---VPPDADLILEVQLLSAE
XP_017262938	LTVQLMEMGEKALVQTD AKYAYGARGSG-----LDPE---VPPNAALSLEVELLEAT
XP_023263872	LTVQLMEMGEKALIQTD AKYAYGTRGS-----LEPE---VPPNAELSLEVDDLLEAT
XP_020391165	LCVQLMDQNEVALIVSDAKYAYGSLGS-----SEPS---VPSNATVHLEVQLLSVG
XP_016327233	LTVQLMEMGEKALIEAGAKYAYGALGS-----STPA---APPDSDLILEVQLLSAD
XP_016138463	LTVQLMEMGEKALIEAGAKYAYGALGS-----STPA---APPDSDLILEVQLLSAD
XP_016356127	LTVQLMEMSEKALIEAGAKYAYGALGS-----STPA---VPPDADLILEVQLLSAE
XP_007577281	LTVQLMEMGEKALIH TD AKYAYGARGSG-----LEPE---IPPNAQLSLEVELVGAT
XP_008405333	LTVQLMEMGEKALIH TD AKYAYGVRGS-----LEPD---IPPNAQLSLEVELVGAT
XP_012715520	LTVQLMEMGEKALIH TD AKYAYGARGSG-----LDPE---VPPNAQLSLEVELLEAT
XP_012695070	LAVQLMEMGEKALVEADAKYAYGSVGS-----ACPP---VVPNSNLTMEVQLLTAL
XP_020795782	LTVQLMELGERALVLTDAKYAYGSQGS-----FDPK---VPPNAELSLEVELLEV T
XP_016382508	LTVQLMEMSEKALIEAGAKYAYGALGS-----STPA---VPPDADLILEVQLLSAE
XP_018522913	LTVQLMEKGEKALIQTD AKYAYGTRGS-----LEPE---VPPSAELSLEVELLEAT
XP_008305299	LTVQLMEMGEKALIH TD AIYAYSSFGS-----QDPA---IPPDAELSLEVELLEAK
XP_015238114	LTVQLMEMGEKALIH TD AKYAYGARGSG-----LEPE---VPPNAQLSLEVELLKAA
XP_018583793	LTVLLMEMDERALVQTD AKYAYGALGS-----TPA---VPPDASLILELKLLEAV
XP_016886204	LTVQLMEMGEKALIH TD AIYAYSSFGS-----QDPA---IPPDAELSLEVELLEAK
XP_019752339	LAVLLMEMGEKALVQTAAIYAYGTWGS-----CDPD---VPPNAELSLEVELKKVC
XP_010728467	LTVQLMEMGEKALVQTD AKYAYGARGSG-----LEPE---VPPNAELSLEVELLEAT
KKF19855	LTVQLMEMGEKALVQTD AKYAYGARGSG-----LEPE---VPPNAELSLEVELLEAT
XP_015827013	LTVQLMEIGEKALIQTD AKYAYGVRGS-----LDPD---IPPNAELSLEVELLEAT
XP_022061518	LTVQLMEMREKALIQTD AKYAYGARGSG-----LEPE---VSPNAELSLEVELLEAT
XP_019936960	LTVQLMEMGEKALIH TD AKYAYGTRGS-----LEPK---VPPNAELCLEVELLEAT

XP_003974097	LTVQLMEMGEKASIQTDAKYAYGELGS-----SEPQ---VPPNTDLHLEIKLLEAT
XP_023699813	LTVLLMEMNEKAIVHTDAKYAYGGLGS-----TAPA---VPPTSPLILELQLEAT
XP_023699812	LTVLLMEMNEKAIVHTDAKYAYGGLGS-----TAPA---VPPTSPLILELQLEAT
XP_020478047	LTVQLMEMEEKVLIQTDAKYAFGARGS-----LEPV---VPPNAPLSLEVELLEAT
XP_015220721	LAVQLMELEEKALIYSDAKYAYGTLGNE-----SDPA---APPAAALSLEVQLEAS
XP_023123034	LTVQLMEMREKALIQTDAKYAYGARGS-----LEPE---VSPNAELSLEVELLEAT
XP_020478046	LTVQLMEMEEKVLIQTDAKYAFGARGS-----LEPV---VPPNAPLSLEVELLEAT
XP_020478045	LTVQLMEMEEKVLIQTDAKYAFGARGS-----LEPV---VPPNAPLSLEVELLEAT
XP_008275730	LTVQLMEMKEKALIQTDAKYAYGARGS-----LEPE---VPPNAELSLEVELLEAT
XP_010770232	LTVMMLMEMGEKALVQANAKYAYGERGS-----LEPE---VPANEELSLEVELLEAS
XP_002601637	LCVSLMGMGETCEVIVDALYAYGSTGRE-----PD---IPENATITYELQLLNAQ
XP_019619553	LCVSLMGMGETCEVIVDALYAYGALGRE-----PD---IPENATITYELQLLNAE
XP_006814126	LAVAVMEMGEVCTLLSDSRFTYGDLG-----REPD---IPGGAKLRFELLELLAVD
XP_006629043	LCAPSMQLDEIALLITDSQYAYGQRG-----REPD---IPPGAALLYQLHLLHIR
PVD20167	LTVALMNFGEKAEVTSSSRFAYGKHG-----REPD---IPADADVHFTLELLDVQ
XP_023841292	ECAIAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_008410571	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_008410568	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_022329628	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSISYIIELVKKE
XP_014897626	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_014848641	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_014848639	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_007566466	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_023180976	ECVMSMQKGEITLLVADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
KMQ91381	LAIALMDVGEVAEIVDPRFAYGKHGK-----RP-IPPDATIIYTVELKTSE
XP_007566465	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_014897625	ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_015254615	ECVMSMQKGEITLLLADSQYAYGLLG-----REPE---IPAWAPLLYQLQLLDIR
XP_005798327	ECVMSMQKGEITLLVADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_015254612	ECVMSMQKGEITLLLADSQYAYGLLG-----REPE---IPAWAPLLYQLQLLDIR
XP_013980328	ECAIAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_009061784	LGVSLMEIGETCELFASKFAYGERGRE-----PD---IPLNSDITYTLELLKYE
XP_022106769	LCLSLMDLGEVSI IKTSRPFAYGETGRA-----PD---VPPNAEVTYELELLNVQ
XP_020625955	LALALTELDEVCELVTDARYAYGKTGKPD---ANPP---IPPDAKLTYEIQLLAVR
XP_020625956	LALALTELDEVCELVTDARYAYGKTGKPD---ANPP---IPPDAKLTYEIQLLAVR
XP_010732628	ECVIAMQQGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_015728921	LGVPTMRTGEVCFFLAASPYGYGPAG-----REPD---VPPEAPLLFEVTLLDAR
XP_003440659	ECVMSMQKGEITLLLTDSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDFR
XP_014004032	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_010899928	ECVLTMQKDEIVLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLEIR
XP_020336380	ECAIAMQQGEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_022330049	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSISYIIELVKKE
PIK48936	LTSILMEVGEKAVIIAAPRFAYGEEGRE-----PD---VPPNSLVRYELELLEVK
XP_020336379	ECAIAMQQGEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_022330048	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSISYIIELVKKE
XP_007907980	LCAYSMELNEIALVISDGKYAYGHLG-----RAPD---IRADATVVYEVQLLKVR
XP_013859000	ECVMSMQKGEIALLLADSQYAYQLLG-----REPD---IPAWAPLLYQLQLLDVR
XP_019737313	ECVSMRRGEIALLLADSRAYGPAG-----REPD---IPAGAPLLYQLQLLDVS
XP_021427237	ECAMAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_023827235	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_023827230	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_008309233	ECVLSMQQGEITLLLADSQYAYGLLG-----REPD---VPAWSPLLYQLQLLDVR
XP_024269308	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_002932306	LGVRTMQLGEVAFLLTNSLYAFGLLG-----RDPD---IPSDASLLYKVTLQVR
XP_022785584	IGISLMELDEVCELVTDARYAYGKAGKPD---AKPP---IPPDAKITYEIQLLSVR
XP_008309234	ECVLSMQQGEITLLLADSQYAYGLLG-----REPD---VPAWSPLLYQLQLLDVR
XP_013386268	LALSLMERGEVAEIVTDARFAYGSMG-----RDPD---IPPNAQLTYEVELVRIE
XP_005928731	ECVMSMQKGEITLLLTDSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDFR

XP_002119960	MTISLMELGEKSEITSDAKYCYG--DEG----KPPN---IEPGMDLCFTVILLNID
XP_024235293	ECAIAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_005729996	ECVMSMQKEITLLLTDSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDFR
XP_018619414	HCAASMCLWEIALLLADSQYTYGHQG-----RDPD---IPAWSPLLYELQLLDIR
XP_012796312	LSVPLAEHKEIFELTTDSRFAYGSRG-----RDS---IPSGAKLTYRIEVLKVD
XP_004553258	ECVMSMQKEITLLLTDSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDFR
CDQ72337	ECAISMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_024269303	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_024269307	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_024269300	ECAIAMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_017893134	LAIALMDVEEIAEIVDPRFAYGSLGD-----EPNIPASSTITYTVELKSSE
XP_021454564	ECAISMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_003967095	ECVMSMQMGEVSLLLADSQYAYGLLG-----REPD---VPAWAPLLYQLQLLDFR
XP_021454548	ECAISMQQDEIALLLADSQYTYGLLG-----RETD---IPAWAPLLYQLQLLDIR
XP_023697743	RCAVSMHPPEISLLLLTNSQYAYGRQG-----RDPD---VPAWASLLYEVQLLGFR
PIK51124	LAAILMEVGEKAEIIAIPRFAYGEQGRE-----PD---VPPNSIVRYEELLEVEK
XP_020311464	ECAIAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_017261735	ECVMSMQKEIALLLADSQYAYELLG-----REPD---IPAWAPLLYQLQLLDVR
XP_011312767	LAVALMDVGEVAQIEISPRFAYGDLGK-----KPDIPPGATLHYNITLKAVE
XP_022047038	ECVMSMQKEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_003427294	LAVALMDLEEEAEVETASRFAYGSLGRKA---TASLPEIPPDAKITYNIVLKSIE
XP_020139363	FVLHMLR-GVPRERDSANPHSWP--GP-----VPPHGYSENKKTV----
XP_011661975	LCVCLMELGEVAEIHNTNARFAYGEYGKA-----PK---ILPNTDMIYEVELLETN
XP_021263191	LGVPTMRGGEICFFLAASPYGYGRAG-----REPD---VPPEAPLVFEVTLLEVR
XP_005110253	LAVALMDVGEKCELFTDARYAYGPLGRD-----PD---IPKDasITYTIELINVQ
OCT89685	LGVRTMQLGEVAFLLTNSLYAFGLLG-----RDPD---IPSDASLLYKVTLQCVR
XP_018106932	LGVRTMQLGEVAFLLTNSLYAFGLLG-----RDPD---IPSDASLLYKVTLQCVR
XP_022609905	ECVISMQKEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_023278137	ECVISMQKEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_023151164	ECVMSMQKEITLLLADSQYAYGLLG-----REPD---IPAWTPLYQLQLLDIR
OON20683	LSLPLAERDERFELITDARFAYGSLG-----RDPD---IPGDATLRYEVHLLSSS
XP_014340350	LCTLSMHPGEVSLITNARFAYGHQG-----RDPD---VPADAPLLYEVQLLCVR
XP_012284026	LAIALMDVGEVATIEVHSRFAYGDLGK-----EPNIPSNATIIYNVELKSVG
OAD61952	LAIALMNVNEVAEIEVDPRFAYGSLGK-----EPNIPPNTTILYTVELKSSK
XP_023962949	LGVQSMQLGEVSFLLTSFLYAYGHLG-----RDPD---IPSDASLLYEVTLQIR
XP_008121023	LAVPSMQVGEVALFLVSPTCAYGSLG-----REPD---IPPNATLLYEVTLQVQ
XP_017763036	LAIALMNVNEVAEIEVDPRFAYGSLGK-----EPNIPPNTTILYTVELKSSK
XP_017691650	LGVPTMQPGEISFFLAACPYAYGRP-----REPD---VPPEAPLLFEVTLLEVR
XP_012710521	ECVMSMQKEIALLLTDSQYAYGLLG-----REPD---IPAWAPLLYQLQLLDIR
XP_015819997	ECVMSMKKEIALLLADSQYGYGLLG-----REPD---IPAWAPVLYQLQLLDTR
XP_023962948	LGVQSMQLGEVSFLLTSFLYAYGHLG-----RDPD---IPSDASLLYEVTLQIR
XP_019921720	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSIAYIIELVKKD
XP_020904887	VGVALIELSEVCELVTDARYAYGEQGRSG---DNP---VPPNAKITYEIELLAVR
XP_024138547	ECVLSMQMGEITLLLADSQYAYGLLG-----REPD---IPAWAPILYQLQLQDIR
AWP08482	ECVMSMQKEITLLLADSRAYGLLG-----REPD---IPAWAPLLYQLQLLGIR
CDQ67637	ECAMAMQQDEITLLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLLNIR
XP_011423840	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSIAYIIELVKKD
XP_014808190	LGVPTMQPGEVSFFLAAPFYGYGRP-----REPD---VPPEAPLLFEVTLLEVR
XP_007059625	LGVQSMQLGEVSFLLTSFYAYGHLG-----RDPD---IPSDASLLYEVTLQIR
XP_024138546	ECVLSMQMGEITLLLADSQYAYGLLG-----REPD---IPAWAPILYQLQLQDIR
EMP36068	LGVQSMQLGEVSFLLTSFYAYGHLG-----RDPD---IPSDASLLYEVTLQIR
XP_024138543	ECVLSMQMGEITLLLADSQYAYGLLG-----REPD---IPAWAPILYQLQLQDIR
OXU31097	LAVALMDLEEEAEVETASRFAYGSLGRKA---TASFPEIRPDAKITYNIVLKSIE
XP_022202921	FAIPLMDVDEEAELVVGPRFAFGARGRQ-----PDVPPGATLHYTVTLSSAD
XP_006557516	LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE
XP_016770764	LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE
XP_006615021	LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE
XP_008546855	LALALMDVGEVAEIEIARFGYGDVGR-----QPEIPAGAKLFYNVELKSVE

XP\_006557515 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_007254541 ECAISMKKKEEIALLLADSQYTYGLLG-----RDPD---IPPWTPILYQLQLVEIR  
XP\_006615020 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_006557514 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_011053698 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKTIE  
XP\_007254540 ECAISMKKKEEIALLLADSQYTYGLLG-----RDPD---IPPWTPILYQLQLVEIR  
XP\_006615019 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_016913411 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_017559733 ECAISMKKKEEIALLLADSQYTYGLLG-----REPD---IPAWTPILYQLQLIEIR  
PKU40687 LGVPTMQPGEVSFFLAAPFYGYGHPG-----REPD---VPPEAPLLFEVTLLEVR  
XP\_016913410 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
EGI65888 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKTIE  
XP\_014252350 FALALMDKGEAEVVIASRFAYGSLG-----RKPD---IPDAVLTYRLTLHNVR  
XP\_012165944 LAIALMDVNEVAEIEIDPRFAYGSLGK-----EPNIPPNATILYTVELKSSE  
XP\_016913409 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_011053696 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKTIE  
XP\_019934661 ECVMSMQRGEITLLLADSLEYAGLLG-----REPD---IPAWTPILYQLQLDIR  
XP\_008304064 ECVMSMQKGEITLLLADSQYAYGLLG-----REPD---IPAWAPLLYQLQLDIR  
XP\_011053695 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKTIE  
CAX74525 LSIPLAEHKETFELITDARFAYGSRG-----RDPD---IPSGAKLTYHIEILKVD  
XP\_023811597 ECVLSMQMGEITLLLADSQYAYGLLG-----REPD---IPAWAPTLYQLQLDIR  
EFZ15418 LTIILMELDEITQILVHPRFAYGSQK-----ESIPPNNATITYTVELKMIE  
OPJ70235 LGVPTMQPGEVAFFLAAPFYGYGHPG-----REPD---VPPEAPLLFEVTLLEVR  
AAX27902 LSIPLAEHKETFELITDARFAYGSRG-----RDPD---IPSGAKLTYHIEILKVD  
XP\_011053694 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKTIE  
XP\_011164040 LTIILMELDEITQILVHPRFAYGSQK-----ESIPPNNATITYTVELKMIE  
XP\_011150605 LAIAMMDVNEIAVIEVDPRFAYGILGQ-----RPDIPPDATIEYTVELKTVD  
EFN77170 LAIAMMDVNEIAVIEVDPRFAYGILGQ-----RPDIPPDATIEYTVELKTVD  
XP\_011164039 LTIILMELDEITQILVHPRFAYGSQK-----ESIPPNNATITYTVELKMIE  
AAH90698 ECAITMKKKEEIALLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLDFR  
XP\_014606393 LAIALMNVGETAVVEVASRFAYGTLGV-----EPDIPPNATIWTYTVELKSVE  
XP\_003700328 LAIALMDTDEVAEIEVNPRFAYGKLGK-----EPNIPSDATILYTVELKSVE  
XP\_683608 ECAITMKKKEEIALLLADSQYTYGLLG-----REPD---IPAWAPLLYQLQLDFR  
XP\_014606392 LAIALMNVGETAVVEVASRFAYGTLGV-----EPDIPPNATIWTYTVELKSVE  
XP\_023726255 LALPLMDVGEVALLEVGPFRFAYGSQGRE-----PDIPCDVTVMYTVELLSSE  
XP\_011404052 IVASLMQRGEICCVKANPKYAYGSQG-----RSPN---VPPESPVMYELELLEVL  
XP\_018337850 LTIVLMELGEIAEIKIDPRFAYGTRGE-----ESIPPNATITYTVELKAIE  
XP\_023726263 LALPLMDVGEVALLEVGPFRFAYGSQGRE-----PDIPCDVTVMYTVELLSSE  
XP\_012689022 ECAISMKEEIALLLADSQYTYGLLG-----REPD---IQAWAPILYQLQLDFR  
XP\_015190182 LAIALMNVGEIAVVEVASRFAYGTLGV-----EPDIPPNATIWTYTVELKSVE  
XP\_024943519 LAIALMNIGEIAEVEVGPRFGYGDIGN-----KPNIPGGAKIFYTVELKAIE  
XP\_015437909 LAIALMDTGEIAEIEINPRFAYGHLGK-----PPSIPPAIILYTVELISTE  
KYN13005 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKAIE  
XP\_024943518 LAIALMNIGEIAEVEVGPRFGYGDIGN-----KPNIPGGAKIFYTVELKAIE  
XP\_012526171 LTIILMELNEIAEILIHPRFAYGPHGN-----KSIPPDSTITYTVHLKAIE  
XP\_012237396 LAIALMDVNEVAEIEIDPRFAYGSLGK-----EPNIPPNATILYTVELKSSE  
XP\_018372055 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKAIE  
XP\_015600846 LAIALMNIGEIAEVEVGPRFGYGDIGN-----KPNIPGGAKIFYTVELKAIE  
XP\_018372054 LTIVLMELGEIAEIKIDPRFAYGTRGE-----GSIPPNATITYTVELKAIE  
XP\_023811598 ECVLSMQMGEITLLLADSQYAYGLLG-----REPD---IPAWAPTLYQLQLDIR  
XP\_013086934 LAAALMEQGEKCELRDADAKYAYGSLGRE-----PD---IPKDSKLIYILELLHVQ  
XP\_012340112 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_012064601 LTIVLMELGEIAEIKINPRFAYGTRGE-----GSVPPNATITYTVELKAIE  
XP\_021933338 LALPLMDVGEVALLEIGPRFAYGALGRE-----PDVPRDATVYTVELLSAD  
XP\_020469449 ECVMSMQEGELTLLLTHSQYAYGHLG-----REPD---IPAWAPLLYHLQLDIR  
XP\_012340111 LAIALMDVNEIAEIEVDPRFAYGSLGK-----EPNIPSNATILYTVELKSSE  
XP\_014772499 IAVALMELNEVAELKCDAKYAYGSQGRF-----PD---VPSNTAIVYTVLELLDKE  
XP\_021933337 LALPLMDVGEVALLEIGPRFAYGALGRE-----PDVPRDATVYTVELLSAD

XP_002425448	LAVPLMNVGEEAIVVVS	PRFGYGSVGNL-----	PKIPP	NATITYE	VTLVNVL			
XP_018053112	LTIVLMELGEIAEIKIN	PRFAYGTRGE-----	GSVPP	NATITYI	VELKAIE			
XP_023811595	ECVLSMQMGEITLL	LADSQYAYGLLG-----	REPD---	IPAWAPT	LYQLQLLDIR			
XP_003692338	LAIALMDVNEIAEIE	VDPRFAYGSLGK-----	EPNIP	SNATILY	TVELKSSE			
KQK73886	LGVPTMQPGEVAF	FLAAPPYGYGRPG-----	REPD---	VPPEAP	LLFEVTLLEVR			
XP_021933339	LALPLMDVGEVALL	EIGPRFAYGALGRE-----	PDVPR	DATV	VYTVELLSAD			
XP_018025482	LVVPLMDRGESE	EVYIHSRFAYGSKGDG-----	ERVPA	DASLL	CTVKLLDYK			
XP_019335449	LGVPSMQLGEVS	FFLASFYAYGRLG-----	REPD---	IPADALL	LYEVTLLLAR			
XP_014772498	IAVALMELNEVAEL	KCDAKYAYGSQGRF-----	PD----	VPSNTA	IVYTTLELLDKE			
XP_023811594	ECVLSMQMGEITLL	LADSQYAYGLLG-----	REPD---	IPAWAPT	LYQLQLLDIR			
XP_001846585	MTLKLMMNVGERAE	IVDARFAYGDQGYKNEDHPE---	RSVPP	NAKIT	YTYTVELVSSK			
XP_014470017	LAVALMDVHEVAE	IEIDPRFAYS	SKLGK-----	KPDIPP	DAVMSYTVELKD			
XP_002111046	LIVVPLMNVGETV	CVFANSRYGYAQYGS-----	SKHN---	VPQDAD	LEFEVTLIDVS			
XP_014772494	IAVALMELNEVAEL	KCDAKYAYGSQGRF-----	PD----	VPSNTA	IVYTTLELLDKE			
KZS20178	LIVALMDCGEISQ	VEVAPRFAYGSLGNG-----	KDIPP	DATILY	TIELLEIS			
XP_014470016	LAVALMDVHEVAE	IEIDPRFAYS	SKLGK-----	KPDIPP	DAVMSYTVELKD			
KFM75734	LVICLMEKGEKAR	VVIPS	KLAYGEIG-----	RTPD---	VPPNSDIKCDLELKEVE			
XP_018900271	FVIALMDVGEVAF	EVFVGPRFGFGKIGRQEP-----	DKPEV	PPNANL	HYTMKLIKVE			
XP_020392992	LCVPLMYIHETAL	ILTDSKFC	SGRASS-----	EASE---	VKPGSRLLELVHLLSAS			
XP_016376789	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
XP_016345079	ECAISM	TQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR		
XP_014106477	LGVPTMQPGEVS	FFLAAPPYAYGRPG-----	REPD---	VPPEAP	LLFEVTLLEVR			
XP_014237957	LALALMNT	EEEEAEVKV	GYGKTGR-----	TSPLP	VI	PNTDLVYNVTLLKSVT		
XP_016376788	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
XP_016376787	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
CDS28193	LALPFVELMED	FELVTDARFAYGSKG-----	NPPN---	IPNAKL	TYRISLIACN			
KOC65132	LAIALMDVGEVAF	IEVNP	RFAYGSLGK-----	EPNIPP	NACILYTVELKSSQ			
XP_017790334	LAIALMDVGEVAF	IEVNP	RFAYGSLGK-----	EPNIPP	NACILYTVELKSSQ			
XP_020790728	ECVLSMQTGEIA	LLALLADSQYAYGLLG-----	RQPD---	IPAWAP	LLYQLQLCDVR			
XP_012221110	LTISLMDKDEIAE	VYVDP	PRFGYGDQPE-----	EKIPP	NSVLKYI	VELKEII		
GAA30660	LSLPLAERDER	FELVTDARFAYGSLG-----	RDPD---	IPGDAT	LRYEVHLLSSS			
XP_012221101	LTISLMDKDEIAE	VYVDP	PRFGYGDQPE-----	EKIPP	NSVLKYI	VELKEII		
XP_012221093	LTISLMDKDEIAE	VYVDP	PRFGYGDQPE-----	EKIPP	NSVLKYI	VELKEII		
XP_018649440	LSIPLAEHKEI	FEMTTDSRFAYGSRG-----	RDPG---	IPSGAK	LYRIEVLKVD			
EFX68474	LIVALMDCHEISQ	VEVGPRFAYGSLGNG-----	KDIPPE	ATILY	TIELLEVS			
XP_023229640	LTVTLMEKGE	LAEVIIIPARLAYGEQG-----	KLPE---	IPPNSV	INYKIRLV	DVR		
EAT32833	MALKLMNVGEQAE	IVIVSSRFAYGEQGLK	NEDHPE---	RTVPP	NEKIT	YTYTVELVSTK		
XP_016344167	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
XP_016344168	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
XP_016344166	ECTISMKQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR			
XP_016376234	ECAISM	MQGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLQLLDFR		
XP_007906811	ICVPLMEVEETSL	ILADV	KFCYLSKEC-----	QNGS---	LPPGT	KLLLEVKLLSVT		
KYN04145	LTISLMELDEIAE	IKIDPRFAYGTRGE-----	GAVPP	NATITYI	VELKAIE			
XP_014282311	FALALMDKGEVAF	EIKITPRFGYGS	LGR-----	PEIPP	GANLIY	TVTL	LDVK	
XP_015109871	LAIALMDVGEAAE	IVIA	PRFAYGDIGK-----	EPDIPP	PGATLY	NNVNLKAVK		
CDS42647	LALPLAELKEV	FELKTDARFAYGDMG-----	KMPD---	IPGAK	LYTHITLNECG			
XP_011870270	LAIVLMELGEIAE	IVINERFAYGMSGT-----	STIPSL	ATV	TYVVELKAIE			
XP_011870269	LAIVLMELGEIAE	IVINERFAYGMSGT-----	STIPSL	ATV	TYVVELKAIE			
XP_018977514	ECVISMTKGEIA	LLALLADSQYTYGHLG-----	REPD---	IPAWAP	LLYQLELLDFR			
XP_007906810	ICVPLMEVEETSL	ILADV	KFCYLSKEC-----	QNGS---	LPPGT	KLLLEVKLLSVT		
CDS17605	LALPLAELKEV	FELKTDARFAYGDMG-----	KMPD---	IPGAK	LYTHITLNECG			
XP_014206998	LALALMETEEEE	AIIEAEARFGYGS	LGRPA----	VGPFP	PEIP	SNAKLIY	NVT	LKRVG
XP_018393954	LTISLMELDEIAE	IKIDPRFAYGTRGE-----	GAVPP	NATITYI	VELKAIE			
XP_015929100	LVFCLMEKDEV	AKVKIPPKLAYGKLG-----	RSPE---	IPPESE	LEYEVHLKD	VQ		
ELU06040	LCVALADEHET	FELFTAAQYAYGAFGKP-----	DSG---	IPPNSD	IIEIAVLKVE			
XP_024353326	LALPLAELKEV	FELKTDARFAYGDMG-----	KMPD---	IPGAK	LYTHITLNECG			
EAT35561	MALKLMNVGEQAE	IVIVSSRFAYGEQGLK	NEDHPE---	RTVPP	NEKIT	YTYTVELVSTK		
XP_018359770	LTIPLMELGEIAE	IRIDPRFSY	GTHGE-----	GSVPP	NATITYT	VELKAIK		

EAT35560	MALKLMNVGEQAEVIVSSRFAYGEQGLKNEHPE---RTVPPNEKITYTVELVSTK
XP_018319727	VVLALMNVGETSKIKIEPRLAYGSRGLE-----SKIPPNATILYEVTLLSAD
XP_001662371	MALKLMNVGEQAEVIVSSRFAYGEQGLKNEHPE---RTVPPNEKITYTVELVSTK
XP_018319726	VVLALMNVGETSKIKIEPRLAYGSRGLE-----SKIPPNATILYEVTLLSAD
XP_001662370	MALKLMNVGEQAEVIVSSRFAYGEQGLKNEHPE---RTVPPNEKITYTVELVSTK
XP_012269548	LVIALMDVGEVAEVEVESRFAYGDLGR-----EPDIPGGAKLFYTTLELLSVE
PAA92621	IAVLLMELDEQCSLVTSARYAYGYSAEV----KTSTGVVIPPGLSVLHCTVTLVSVD
XP_019867812	FCIGIMNVGEQSMVKVAPLFAYGDKGLS-----EXIPGKATLIFNIELKALK
PAA53270	IAVLLMELDEQCSLVTSARYAYGYSAEV----KTSTGVVIPPGLSVLHCTVTLVSVD
PAA57938	IAVLLMELDEQCSLVTSARYAYGYSAEV----KTSTGVVIPPGLSVLHCTVTLVSVD
XP_966821	VAIGLMNVGEKCSLKIEPRLAFFGGVGLP-----PKIPPNAVVDIELVGVE
KXJ84517	MALKLMNVGEQAEVIVAARFAYGELGLKDEHPE---RTVPPNEKITYTVDLVSTK
XP_023345477	LILPLMRVGETCRIESESACFYGEQG-----DGDR---VPGNHKLYLEVELISAR
XP_011494478	LGITLMDLEEEAELEICPRFAYGALGR-----NLPLPEIPPNSKLTYNVILKDIK
XP_023345475	LILPLMRVGETCRIESESACFYGEQG-----DGDR---VPGNHKLYLEVELISAR
XP_016940923	MVVPMMQIGEVAQVSVDPRFGYGSVGLK---KDGESEYLVPPDSHLYEIELLDIK
XP_023345476	LILPLMRVGETCRIESESACFYGEQG-----DGDR---VPGNHKLYLEVELISAR
PNF41144	LALPLMDVGEVALLEVGRFAYGSQGRE-----PDIPCDVTVMYTVELLSSSE
XP_019932587	MALKLMNVGEQAEVIVAARFAYGELGLKDEHPE---RTVPPNEKITYTVELVSTK
XP_019932586	MALKLMNVGEQAEVIVAARFAYGELGLKDEHPE---RTVPPNEKITYTVELVSTK
XP_016028426	MVLPMQLQVGEVSQVSVDPRFGYGSIGLK---KEGESEYLVPPDANLYEIELLDIK
XP_016958803	MVVPMMQIGEVAQVSVDPRFGYGSIGLK---KDGESEYLVPPDSHLYEIELLDIK
EKC18274	LAVALMEEGQVIELQTDARFAYGEKGRK-----PD---IPPNSSAIYIELLVKDD
PNF41145	LALPLMDVGEVALLEVGRFAYGSQGRE-----PDIPCDVTVMYTVELLSSSE
XP_011636531	LTIVLMDLGEIAEIIHPRFAYGACGN-----DPIPPNATITYTVELKAIE
XP_017014991	MVVPMLQVGEVAQVSVDPRFGYGSIGLK---KDGEDYLVPPDSHLYEIELLDIK
XP_001974711	MVLPMQLQVGEVAQVSVDPRFGYGSIGLK---KDGESEYLVPPDSHLYEIELLDIK
XP_024874265	LTIVLMELGEIAVVVVDPFRFAYGTRGT-----ASIPSNATITYTVELKEIK
NP_611353	MVLPMQLQVGEVSQVSVDPRFGYGSIGLK---KEGESEYLVPPDAHLYEIELLDIK
XP_016984960	MVVPMLQVGEVAQVSVDPRFGYGSIGLK---KDGEDYLVPPDSHLYEIELLDVK
XP_017054378	MVVPMLQVGEVAQVSVDPRFGYGSIGLK---KEGESEYLVPPDSHLYEIELLDIK
XP_024874264	LTIVLMELGEIAVVVVDPFRFAYGTRGT-----ASIPSNATITYTVELKEIK
XP_019545364	IALKLMNVGEQAEVIVAARFAYGELGLKDEHPE---RTVPPNEKITYTVELVSTK
XP_019545363	IALKLMNVGEQAEVIVAARFAYGELGLKDEHPE---RTVPPNEKITYTVELVSTK
XP_014670901	MAVTLMELEETCELKINARFAYGERGRL-----PD---IPSNATVITYQLSLGIY
XP_017079421	MVVPMLRIGEVAQVSVDPRFGYGSIGLK---KDGETDYLVPDPSHLYEIELLDIK
XP_013113222	MTIPLMDIGEVAEVQVDARFAYGSLGLK---NDTDELSIPPESKLYEVHLKDAI
XP_002034480	MVLPMQLQVGEVSQVSVDPRFGYGSIGLK---KEGESEYLVPPDANLYEIELLDIK
XP_017031858	MVLPMMLVGEVSQVSVDPRFGYGSIGLK---REGSEFVVPDPSNLYEIELLDSK
XP_015788695	LIVPLMNVGEIAEVIVTPRFAYGEKG-----REPD---IPPNASLKLIIEIAID
XP_017117238	MVVPMMQVGEVAQVSVDPRFGYGSIGLK---KDGESEYLVPPDSHLYEIELLDIK
XP_015364528	LALSMLNVGEIAELKIASRFGYGEKGLS-----PKVLGGARLVYTVELVTVK
XP_017836078	MVLPMMHVGEVSEISVDARFYGAIGLK---KDNSTDVLIPPEAHLSEYIELLEVK
XP_316645	MALKLMNEGEVAEVIVNPRFAYGELGVKDPTEQDPVIRTVPPNATITYTVELVSMR
XP_002091890	MVLPMQLQVGEVAQVSVDPRFGYGSIGLK---KDGESTYLVPPDSHLYEIELLDTK
XP_009022869	LCVPLMHPGEVCELVTARFAYGEKGRK-----PD---IPGNARITYELELLDVQ
XP_020815089	MVLPMMLVGEVSQVSVDPRFGYGSIGLK---REGDSEFVVPDPSNLYEIELLDSK
KYO18601	LGVPMSQLGEVSFFLASFYAYGRLG-----REPD---IPADALLYEPEAG---
XP_023307145	MVVPMLNIGEVAEVKVDPRFAYGSLGLK---NDKEPALSIPPEATITYEVHLIDSK
XP_004526322	MVIPLMNVGEVAEVTIDARFAYGSIGMK---NNENECASIPPDITLYEVHLVESK
XP_017468465	MAIPLMSVGEVAEIRIDTRFAYGSLGFK---NENNESASVPADANLYEVHLLDSK
XP_011213061	MVIPLMNVGEVAEVTIDARFAYGSLGLK---NDENENASVPADSTLIYEVHLQDCK
ETN59059	MALKLMNEGEQAEVVVNPRFAYGEIGLNNETDPK---RSVPPNATITYTVELLSTK
XP_019877780	VAVALMNLNERCLLKIAPRLAYGQKGLP-----GKVPENATVVYDIELTAVE
XP_001951673	LALSMLNVGEIAELKIASRFGYGEKGLN-----PKVLGGARLVYTVELVTVK
XP_002062976	MVLPMMQVGEVAQVSVDPRFAYGSTGLKIN-KDDDETVVVPDPSHLYEIELLDAK
XP_001986816	MVLPMMHVGEVAEVTVDQRFYGTAGLK---TDNPPEIVIPPNAQLIYELELVVK
XP_022181773	LALSMLNVGEIAELKIASRFGYGEKGLS-----PKVLGGARLVYIVELVSVK



XP_002048800	MVLPMMHVGEVSQVNVDQRFYGTIGLK---TENPPEIIVPPNANLVYQVELVDVK
XP_018801327	MVIPLMNVGEIAEVTIDARFAYGSLGLK---NDENENANVPADSTLIYEVHLQDCK
XP_020300622	LALALMDVGEIALVYVHPRFAYGEQGT-----EDIPPNSIITYIIEELKKIT
XP_011193416	MVIPLMNIGEVAEVSVDSEFAYGSLGLK---NEKDDSANVPADSTLYEVHLLDCK
XP_017960399	MVLPMMHVGEVAQVSIDQRFYGTIGLK---TENPPETVIPPANANLIYELELVDVQ
ACO13176	YILPIMNVNEVVEVITESDFMYGDQGL-----DSPP---VPPKATLQLKLHLIDSV
XP_011350211	LVIVLMNIGEVADVIVEPRFAYGLSGT-----KDIPAGTPLVYTVELLTAR
KRT81327	IVIGLMNIGDIWELEIEPRLAYGTKGLP-----PLIPADAKVLYRV-----
XP_023162735	MVLPMMHVGEVAQVSIDQRFYGTIGLK---TENPPETVIPPNTNLIYELELVDVK
XP_019771996	VALGLMNSSERCLKIGPRLAFGDRGLP-----PKIPAGATVLFDELVDVSHQ
XP_005176045	MVVPLMNVGEVAEVKVDPRFAYGSLGLK---NDADPELNIPPDSEKLYEVHLLDTK
XP_014095636	MVIPLMNIGEVAEVTIDARFAYGSLGLK---NDENESASVPADSTLIYEVHLLNCK
XP_017867395	MVLPMMHVGEVAQVSIDQRFYGTIGLK---TENPPETVIPPANANLIYELELVDVK
XP_002004550	MVLPMMHVGEVAQVSIDQRFYGTIGLK---TENPPETVIPPANANLIYELELVDVK
XP_022921247	LSIAMMNVGEICELKIQPRLAFGAKGLP-----PLIPPNTTVIYEVALLSIV
XP_002015767	MILPMLKVGEVAEVVVDPRFGYGTGLGLK---KD-DGDFIVPPNALLTYEIELLDSK
XP_001360319	MILPMLKVGEVAEVVVDPRFGYGTGLGLK---KD-DGDFIVPPNALLTYEIELLDSK
XP_017147297	MILPMLKVGEVAEVVVDPRFGYGTGLGLK---KDNDGDFIVPPNALLTYEIELLDSK
XP_019879021	IAITSMNLHERSLFIIDPGLAYGPEGVN-----EIVPKNATIICVIELTRLM