

gi | 29789393 | ref | NP_766263.1 | ...MALVSGISLD--PEAAGVTKRSPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 109469301 | ref | XP_342596.3 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQELD--ELADDRMALVSGISLD--PEAAGVTKRSPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 198041688 | ref | NP_001128244.1 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAA--LADDRMALVSGISLD--PEAAGVTKRPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 114682812 | ref | XP_514749.2 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAA--LADDRMALVSGISLD--PEAAGVTKRPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 73992388 | ref | XP_867549.1 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAA--LADDRMALVSGISLD--PEAAGVTKRSPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 76633007 | ref | XP_871460.1 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAAELD--ELADDRMALVSGISLD--PEAAGVTKRSPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 57529381 | ref | NP_001006295.1 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAAELD--ELADDRMALVSGISLD--PEAAGVTKRPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 125819329 | ref | XP_691316.2 | ...MATRRLDAFLLLRNLSIQNRQLLAQEQVSSHITSSPLHS--RSIAAELD--ELADDRMALVSGISLD--PEAAGVTKRPPKVVVDGVEIQYDVGRIKQKMKELASLHDKHLNRPFLDSSSE--EHA1 150
gi | 17647979 | ref | NP_523420.1 | ...MTRSNLTFEVFVIMRNNAKNNRHHYDRRGS--DAERLLKHSVREAE--EGLELQDDYGPAPAWLDFEAOYVMSKIKPKLDELGSLSLHARHLRPAFDQRRD--ECDI 150
gi | 17556811 | ref | NP_498105.1 | ...MASSSVTAANAANKNEIYGTTRNLTEVFMILRSNAHQSRLLIYKDDIIVSRSG--DEERMAVLVEDGR--QESDE--EPVVIHTADVEFEVERVQRRLDELGEAQRKHISRPNFGDEAFKBEKQM 150
gi | 18411871 | ref | NP_567223.1 | ...MATRNRITVVRKHRDACKSARAPLSLSASDFGFPVTEM--VSGFSRS--NHSSYAPLNSYDPG--PSSDAFTIGMPVNDSSSEITFNQIKVRDKMNLAKAHSKALMPTFGDNKGIH--REV 150
gi | 39977997 | ref | XP_370386.1 | ...MWRDRNLNLYISYRQSYAHHPAQRTRYGDSSATSSSLAGADRFSGSSGNLSLFADEDRRGLLSSGAS--DDGDAVIEMDLLPPRWAEVNDVTELLAEIAQKQKLERLHOKHVLVPGFNDEAKRAESET 150
gi | 32405692 | ref | XP_323459.1 | ...MFRDRNLNLYISYRQSYAHHPAQRTRYGDSSATSSSLAGADRFSGSSGNLSLFADEDRRGLLSSGAS--DDGDAVIEMDLLPPRWAEVNDVTELLAEIAQKQKLERLHOKHVLVPGFNDEAKRAESET 150
gi | 19114744 | ref | NP_593832.1 | ...MAYDRDGLYITFRQSYSHHQQLLELSG--WDPKEERQSLVHKDNK--DNVIEMDMLAPRWVTEGEIDSLNLRNRNLNLDKQVAKHVLVPSFD--KTEQENEL 150
gi | 6324555 | ref | NP_014624.1 | ...MFRDRNLNLYISYRQSYAHHPAQRTRYGDSSATSSSLAGADRFSGSSGNLSLFADEDRRGLLSSGAS--DDGDAVIEMDLLPPRWAEVNDVTELLAEIAQKQKLERLHOKHVLVPGFNDEAKRAESET 150
gi | 50303059 | ref | XP_451467.1 | ...MFRDRNLNLYISYRQSYAHHPAQRTRYGDSSATSSSLAGADRFSGSSGNLSLFADEDRRGLLSSGAS--DDGDAVIEMDLLPPRWAEVNDVTELLAEIAQKQKLERLHOKHVLVPGFNDEAKRAESET 150
gi | 45190581 | ref | NP_984835.1 | ...MYRDRNLNLYISYRQSYAHHPAQRTRYGDSSATSSSLAGADRFSGSSGNLSLFADEDRRGLLSSGAS--DDGDAVIEMDLLPPRWAEVNDVTELLAEIAQKQKLERLHOKHVLVPGFNDEAKRAESET 150
gi | 124806741 | ref | XP_001350818.1 | ...MEVIYRNLINITYFDYVREIKKKNRFKLRKLEKLDDE--EDTGENLNENED--LEMQEQSMPLPPYWIKEIECESDINNMRKTLIQKQKLNALNNDLIT--ENI 150



gi | 29789393 | ref | NP_766263.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 109469301 | ref | XP_342596.3 | ...EITTEQEVTLFHRCORAVQALPFRARR--TCSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 198041688 | ref | NP_001128244.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 114682812 | ref | XP_514749.2 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 73992388 | ref | XP_867549.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 76633007 | ref | XP_871460.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 57529381 | ref | NP_001006295.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 125819329 | ref | XP_691316.2 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 17647979 | ref | NP_523420.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 17556811 | ref | NP_498105.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 18411871 | ref | NP_567223.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 39977997 | ref | XP_370386.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 32405692 | ref | XP_323459.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 19114744 | ref | NP_593832.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 6324555 | ref | NP_014624.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 50303059 | ref | XP_451467.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 45190581 | ref | NP_984835.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300
gi | 124806741 | ref | XP_001350818.1 | ...EITTEQEVTLFHRCORAVQALPFRARR--ACSEDEERLLRNVVASLAQALQELSTFRFRAQSDYLKRMKNREERSQHFFD--FVPLMD--DGDDALLYG 300



gi | 29789393 | ref | NP_766263.1 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 109469301 | ref | XP_342596.3 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 198041688 | ref | NP_001128244.1 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 114682812 | ref | XP_514749.2 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 73992388 | ref | XP_867549.1 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 76633007 | ref | XP_871460.1 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 57529381 | ref | NP_001006295.1 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 125819329 | ref | XP_691316.2 | ...QG----FDDQLVLEQ--NLLMVEEREREIRIVQISIDLNEIFRDLGAMIVEQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 17647979 | ref | NP_523420.1 | ...HFRPPASRMVQQQLLFEENIRVAQHQREQVTKIVRSIYDLNDFKDLGHMVQEGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 17556811 | ref | NP_498105.1 | ...ST----EISMAIQQFMN--NDREVREREKVMVAVNTSIRELNTLFDLSEMIVDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 18411871 | ref | NP_567223.1 | ...MG----FDEHQTLKLEK--GQHVSAEREREIQVLSVNDLQIMKDLQALVLDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 39977997 | ref | XP_370386.1 | ...ST----LQATHQKLLSNDAAILQREEREIDQIAGIIDLADLFRDLQIMVIDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 32405692 | ref | XP_323459.1 | ...ST----LQASTHQKLLSNDAAILQREEREIDQIAGIIDLADLFRDLQIMVIDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 19114744 | ref | NP_593832.1 | ...ST----LQASTHQKLLSNDAAILQREEREIDQIAGIIDLADLFRDLQIMVIDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 6324555 | ref | NP_014624.1 | ...RT----LQR--QQQLHDISAQVLRERDEEITLARGVLEVTIFREMQLVVDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 50303059 | ref | XP_451467.1 | ...QT----LQK--QKQLDNNQQFLQREDEEITLARGVLEVTIFREMQLVVDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 45190581 | ref | NP_984835.1 | ...QT----LQK--QKQLDNNQQFLQREDEEITLARGVLEVTIFREMQLVVDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450
gi | 124806741 | ref | XP_001350818.1 | ...QN----ELLVQEEQCHS--VNMNKNRSLLKAIIVLDTIFKELSMVLDQGVLDRLIDYVVEQSCVTEDEGLKQLKHAEQ--YQKNRKMLVILVAVIIVLVALVAVKSR-- 450



gi		29789393		ref		NP_766263.1		-----	487
gi		109469301		ref		XP_342596.3		-----	487
gi		198041688		ref		NP_001128244.1		-----	487
gi		114682812		ref		XP_514749.2		-----	487
gi		73992388		ref		XP_867549.1		-----	487
gi		76633007		ref		XP_871460.1		-----	487
gi		57529381		ref		NP_001006295.1		-----	487
gi		125819329		ref		XP_691316.2		-----	487
gi		17647979		ref		NP_523420.1		-----	487
gi		17556811		ref		NP_498105.1		-----	487
gi		18411871		ref		NP_567223.1		-----	487
gi		39977997		ref		XP_370386.1		-----	487
gi		32405692		ref		XP_323459.1		FLRQGGTTSKSVG-----	487
gi		19114744		ref		NP_593832.1		-----	487
gi		6324555		ref		NP_014624.1		NNSHDDGSENTHINDEESNLPSEIVEVTESENDALDDLL	487
gi		50303059		ref		XP_451467.1		EVNSPFGD--PLLDPESNVE-----	487
gi		45190581		ref		NP_984835.1		EDRN-----	487
gi		124806741		ref		XP_001350818.1		-----	487
							460.....470.....480.....	