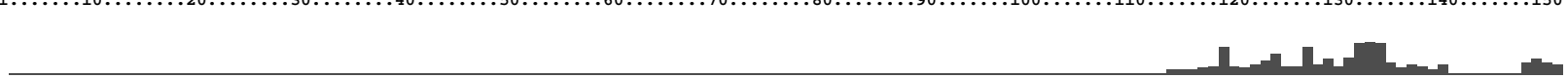


gi	15237411	ref	NP_199440.1	-----MDVPEETRLLRHKRDFIQFLDS-----MYME	150
gi	115464471	ref	NP_001055835.1	-----MDVNEEAMAAHRAFLDFLDQDVQK-----VYMQ	150
gi	145613273	ref	XP_363833.2	-----MDYNALRDEAVRDRVRAQAEFLD--HDQHOR-----SVRF	150
gi	32416474	ref	XP_328715.1	-----MPELLADEVFKDRVRIQFYLEHDTDDANV-----LYQE	150
gi	19075295	ref	NP_587795.1	-----MSDAMNQSDAVFTDRMRRFQFLDTHSHYTRIRLILEFNS	150
gi	50309887	ref	XP_454957.1	-----MELPLNEAHDALESDRVRRFQFLDSDHAYADIRAILVNG	150
gi	45198873	ref	NP_985902.1	-----MEGSTGFGDATTFFAFDAVFGDRVRRFQFLDTFTSYRDSVRSIQVNS	150
gi	6320803	ref	NP_010882.1	-----MAHEGEGQFKIDIREYVDFLDDEEDQG-----IYAG	150
gi	24639835	ref	NP_511048.2	-----MAED-DQRLASTONEYLNFLDDEEDQG-----IYTA	150
gi	58396614	ref	XP_322026.2	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQS	150
gi	6631095	ref	NP_002379.2	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQS	150
gi	114607814	ref	XP_001151750.1	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQS	150
gi	73973306	ref	XP_538960.2	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQN	150
gi	33859484	ref	NP_032589.1	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQN	150
gi	109485811	ref	XP_236988.4	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQN	150
gi	61888858	ref	NP_001013604.1	-----MAG-IIVLDDVVELREAQRDYLDLFDDEEDQG-----IYQS	150
gi	57530231	ref	NP_001006421.1	-----MAAPAGGLGDAELREAQRDYLDLFDDEEDQG-----VTHG	150
gi	47086897	ref	NP_997732.1	-----MAA-EVVDQEMREAQRDYLDLFDDEEDQG-----IYQS	150
gi	124506457	ref	XP_001351826.1	-----MEELSIEKNSLTPFGRSEYRIFNSELYLMDSSLNHSSILDNSMKIEKDSRDKRLQKLNQIVSEVESGRQVVFVTFQOKYKQLLEGFLLVQTNKYVTHOKITELRHEAT	150



gi	15237411	ref	NP_199440.1	ETKALVHQK-----RRLIINISDTHHFR--EVAERILKIPNEYMQSFCDAATEAIRAIDPKYLKE-----GELVLVGFEGYFVSRVVTTPRELLSDFIGSMVCVEGIVTKCSLVRPKV	300
gi	115464471	ref	NP_001055835.1	AVRDMVQNK-----RRLIIGMDDLNRHSL--DLARRVIRSPAETMQSPASDAVTEVARNLDPKFLKE-----GQRLVVGFSGFPFGRHRTTPRDLMSFIFTMVCVEGIVTKCSLVRPKV	300
gi	145613273	ref	XP_363833.2	-----DIVLMLQK-----QRRLVVDHVRDHSS--EVAEGLLTDPFNWHLAFNHALTIIVSVQARPQ-----IDPDVLYCAWAGSFLGHCNPRTLSSOHLNMMVSIIEGIVTRSLIRPKV	300
gi	32416474	ref	XP_328715.1	-----ALLRMLNG-----QRRLVVIDELRDYNR--ELADGVLLKPLVEVPEDEALRNVVSLIDIPVVKH--DLKDKLFYVGRFSGFDHVNPRTRAMHLNKMISLEGIVTRCFHRPKV	300
gi	19075295	ref	NP_587795.1	-----NVVKEKKTQ-----DDVLTADKDTMDHDTQLPLRIIVSLLDLDREFDK--FTWTGLLQVPEFPLPAEAVSETAMALDDPLGFRGFQNDPSRQWRLSFKGSGFQNSLSPRTLNTHLNKLSVIEGIVTRSLVRPKL	300
gi	50309887	ref	XP_454957.1	-----LNAERGD-----GAWDKKSGP--AGASLPRLVSLDDIREFDR--AYWTGLLVQPAYFLPAEAVTDLAAVLEDVVAR--AAGPSSSEWRLSFRGAFGAHALSPRITLMATHLNQLVSIIEGIVTRSLVRPKL	300
gi	45198873	ref	NP_985902.1	-----NNAANYNDQDDAEDERDLGDDDLKLEKKAASSLNILPHRIIISLDDREFDR--SFWSGILVEPAYFIPPAEKALTDLADSMDDVPHN-ASAVSSRHPWKLSTFKGSGFAGHALSPRITLTAQHLNKLVSVEGIVTRSLVRPKL	300
gi	6320803	ref	NP_010882.1	-----HVKDMIAEK-----SKRLVNVNIDLRKKNP--QRALGLLNSAADQLAFGRALKEYASTVDPGYAKM--HEDLDFVGFEGCFGNRHVTPRSLTSTIYLNMMVCVEGIVTKCSLVRPKV	300
gi	24639835	ref	NP_511048.2	-----HVRKMINDK-----SKRLVNVNIDLRKKNP--GRALALLNSAFDQLAFSRALKDVVSTIDMSYAKT--QEDPHVAFEGSFGNKKHVTSPRSLTSRFLGNLVCVEGIVTKCSLVRPKV	300
gi	58396614	ref	XP_322026.2	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	6631095	ref	NP_002379.2	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	114607814	ref	XP_001151750.1	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	73973306	ref	XP_538960.2	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	33859484	ref	NP_032589.1	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	109485811	ref	XP_236988.4	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	61888858	ref	NP_001013604.1	-----KVRELSIDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	57530231	ref	NP_001006421.1	-----KVRDMISDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	47086897	ref	NP_997732.1	-----KVRDMISDN-----QYRLVNVNIDLRKKNP--KRANRLNNAFEBELVAFORALKDFVASIDATYAKQ--YEEFYVLEGSFGSKHVSPTLTSFCFLSCVVCVEGIVTKCSLVRPKV	300
gi	124506457	ref	XP_001351826.1	DEYNRMQNKINIP-----KSRLLVNVNIDLRKKNP--KRAAKLLNNAFEBELVAFORALKDFVASIDATYAKQ--CEEFFIIGLEGSFGSKHVSPTLTSRLLSMLVCLGIVTKCSLVRPKV	300
				IIHQRLCINNFQNGEFLLAARLKEPYLALPAYCAAIKELKESDSKVDID--PPKIGICGWLGRHHTVPRGLQSSMINKLVAVGIVNKCSLVRPKL	300



gi	15237411	ref	NP_199440.1	VKSVHFCPSLGEF-----NRDYRDIASHAG--LPTGSVYPTRDCKGNLLVTEYGLCKYKDHQTLISIQEVPENAAPGOLPRSDVIAEDDLVDSCPKGDRVSVFGIYKALPGKSKGSVNGV-----FRILLIANNIALL	450
gi	115464471	ref	NP_001055835.1	VKSVHYCPATGGI-----LSREYRDIISFVG--LPTGSVYPTRDENGNLLVTEYGMCEYKDHQTLISIQEVPENASAPGOLPRVTDIIVEDDLVDSCPKGDRVSVFGIYKALPGKSKGSVNGV-----FRIVLIANNVSLM	450
gi	145613273	ref	XP_363833.2	-----VKSVMHSEAKKTF--HYREYRDQTMNG--IVTN--SVYPREDEEGNPLETEYGFSTYRDHOTISIQEEMPERAPAGOLPRGVDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FKTVILANNIVLL	450
gi	32416474	ref	XP_328715.1	IKSVHYCEATKRH-----HFQYADATMNGG--LSFQSTVYPTDENGNSLIEFGFSTFRDHOSISIQEEMPERAPPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	19075295	ref	NP_587795.1	IRSVHYAQTGHH-----HYRDYRDATITLTSVTPAIYPEEDQENGLVTEYGCYMDHORITVQEMPEKAPPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	50309887	ref	XP_454957.1	LRSVHLKNTGAAH-----YRDYRDATITLTSVTPAIYPEADPEGNLNTTEYGYSTYMDHORITVQEMPEKAPPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	45198873	ref	NP_985902.1	IRSVHYAAKTRF-----HYRDYRDATITLTSVTPAIYPTEDTEGNKLTTEYGYSTYMDHORITVQEMPEMAPPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	6320803	ref	NP_010882.1	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	24639835	ref	NP_511048.2	IRSVHYCPATKKT-----MERRYDILTSEFA--VPSSAVYPTKDDGNLLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	58396614	ref	XP_322026.2	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	6631095	ref	NP_002379.2	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	114607814	ref	XP_001151750.1	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	73973306	ref	XP_538960.2	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	33859484	ref	NP_032589.1	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	109485811	ref	XP_236988.4	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	61888858	ref	NP_001013604.1	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	57530231	ref	NP_001006421.1	IRSVHYCPATKKT-----IERRYSDLTSLVA--FPSSSVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	47086897	ref	NP_997732.1	IRSVHYCPATKKT-----MERRYDILTSEFA--FPSSAVYPTKDEENNPLETEYGLSVYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450
gi	124506457	ref	XP_001351826.1	VQSVYIGEAHDMADAKTSEKIVHLRPHYDIDDFDKAKDSGRPPASDEGRIMMKHRIIGLCKYKDHQTLISIQEEMPEKAPAGOLPRSDVILDDDLVDKPKGDRIVGVGIRTLGNRTNENFAL-----FRIVLIANNVLL	450



gi | 15237411 | ref | NP_199440.1 | NKEAN-----APFYIKQDLNINIKLAR--RDDAFDILLARSLAPS IYGHAWIKKAVVLLMLGGVEKNLKGTHLRGDIINMMVGDPSVAKSOLLRAIMNIAPLAISTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVLADKGVICIDE 600
gi | 115464471 | ref | NP_001055835.1 | NKEAN-----APVYTRDELKRMKEISR--RNDIFDILLGNLAPS IYGHAWIKKAVVLLMLGGVEKNLKGTHLRGDIINMMVGDPSVAKSOLLRAIMNIAPLAISTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVLADKGVICIDE 600
gi | 145613273 | ref | XP_363833.2 | -----MVGDPSTAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 32416474 | ref | XP_328715.1 | GSKSGGGVAT---ATTIDTDIRNINKISK--KPKVFELLSQSLAPS IYGHDIYKKAAILLMLLGGMEKNLENGTHLRGDIINMLVGDPSVAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 19075295 | ref | NP_587795.1 | GNKPGGLNVGGGALDIDADIRNINKLAR--KKNVFELLSQSLAPS IYGEYVYKQAILLMLLGGMEKNLNGTHLRGDIINMLVGDPSVAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 50309887 | ref | XP_454957.1 | HARSTGVSAV---ETLSDNDIRNINKLKM--HDNIFDILSLSQSLAPS IYGHDIYKKAAILLMLLGGMEKNLNGTHLRGDIINMLVGDPSVAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 45198873 | ref | NP_985902.1 | HARSTGVAAS---ERLSDNDIRNINKLAR--HADFVLDLQSLAPS IYGHDIYKKAAILLMLLGGMEKNLNGTHLRGDIINMLVGDPSVAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 6320803 | ref | NP_010882.1 | HARSTGVAAR---QMLDFDIRNINKLSK--KKDIFDILSLSQSLAPS IYGHDIYKKAAILLMLLGGMEKNLNGTHLRGDIINMLVGDPSVAKSOLLRFVLTAPLAIAITGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 24639835 | ref | NP_511048.2 | SKESN-----LDIRREDIMLCKKLAK--NNDIFELLSKSLAPS IHGHAYVKKQAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 58396614 | ref | NP_322026.2 | NKEST-----LSVREINMCKKLAK--NNDIFDILLARSLAPS IHGHAYVKKQAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 6631095 | ref | NP_002379.2 | SKDAQ-----PSFAEDIKIKKFSKTRSKDIFDQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 114607814 | ref | XP_001151750.1 | SKDAQ-----PSFAEDIKIKKFSKTRSKDIFDQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 73973306 | ref | XP_538960.2 | SKDVQ-----PSFAEDIKIKKFSKTRSKDIFDQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 33859484 | ref | NP_032589.1 | SKDIQ-----PAFSAEDIKIKKFSKTRSKDVFEQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 109485811 | ref | XP_236988.4 | SKDIQ-----PAFSAEDIKIKKFSKTRSKDVFEQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 61888858 | ref | NP_001013604.1 | SKDVQ-----PSFAEDIKIKKFSKTRSKDIFDQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 57530231 | ref | NP_001006421.1 | SKDAR-----PLYSANDVAKIKRFSKSRKDNIFNQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 47086897 | ref | NP_997732.1 | SKELIS-----HYFSAEDVAKIKRFSKSRKDNIFNQLARSLAPS IHGHDIYKKAAILCLLGGVEKILPNGTRLRGDIINVLIGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
gi | 124506457 | ref | XP_001351826.1 | NKEIYDSN---LCTISEADKKNFHAFAK--KDNITIDLGYSFAPS ICGQDIVKKAIVLMLAGGTERALPS-HHTRGDIINMLVGDPSVAKSOLLRFVLTAPRAIPTTGRGSSGVGLTAAAVTSDQETGERRLEAGAMVMDRGGVICIDE 600
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 15237411 | ref | NP_199440.1 | FDKMNDQDRVAIHEVMEQQVTITAKAGIHASLNARCSVAAAANPIYGYDRSLTPKNIIGLPSLLSRFDLLFVTLQDMDAGIDSMISEHVLRMHRYKNDRGEAGPDGSLP-----VAREDN-----AESEMFV 750
gi | 115464471 | ref | NP_001055835.1 | FDKMNDQDRVAIHEVMEQQVTITAKAGIHASLNARCSVAAAANPIYGYDRSLTPKNIIGLPSLLSRFDLLFVTLQDMDPEIDRITSEHVARMHRYCTDDGGARSIDKDTG-----VABEDDG-----DVNAIIFV 750
gi | 145613273 | ref | XP_363833.2 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIFGQYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDARDROVSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 32416474 | ref | XP_328715.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIFGQYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDARDROVSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 19075295 | ref | NP_587795.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSMLSRFDLLFVTLQDIEDDKDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 50309887 | ref | XP_454957.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 45198873 | ref | NP_985902.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 6320803 | ref | NP_010882.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 24639835 | ref | NP_511048.2 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 58396614 | ref | NP_322026.2 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 6631095 | ref | NP_002379.2 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 114607814 | ref | XP_001151750.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 73973306 | ref | XP_538960.2 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 33859484 | ref | NP_032589.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 109485811 | ref | XP_236988.4 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 61888858 | ref | NP_001013604.1 | -----PTN-----EKLLMLLPVGYSEBAMVNLTRKILDOIMTV----- 750
gi | 57530231 | ref | NP_001006421.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 47086897 | ref | NP_997732.1 | FDKMSDIDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
gi | 124506457 | ref | XP_001351826.1 | FDKMQPDRVAIHEVMEQQVTITAKAGIHTSLNARCSVAAAANPIYGYDHPKDPKHNIALPDSLLSRFDLLFVTLQDIEDINDRDRALSEHVLRMHRYRQPTTEGAVVRENQQSLGVMGQ-----SLSN-----DSQRPFDFVE 750
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi | 15237411 | ref | NP_199440.1 | KYNQLLHGK-KKRQ-----THDKLILKFLKYYIHYAKHR-----ITPKLIDEASERIAEAVADLRNAGSDTKTGG-LFPIARTLEIIRLAAHAKMKLSEVTKADAEAAKLKMNFAIYHQELTEMDRE----- 900
gi | 115464471 | ref | NP_001055835.1 | KYDRMLHGQDRRRGKK-----SKQDRLVVKFLKYYIHYAKNL-----IQPRLIDEASDIHATSVAELRDGGANAKSGGGTLPITARTLEIIRLAAHAKMKLRHEVLKTDVEAALQVLFNFAIYHQELTEMDRE----- 900
gi | 145613273 | ref | XP_363833.2 | KYDMLHAGVTVTSGRG---ANKKPEVVISIPFMKKYIQYAKTR-----IRPVLTOEASDRIADIYVGLRND-VEGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 32416474 | ref | XP_328715.1 | KYDAMLHAGIKVPSGRGS---ANKKPEVVISIPFMKKYIQYAKTR-----IKPVLTOEASDRIADIYVGLRND-VEGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 19075295 | ref | NP_587795.1 | TFSLLHANART-----FKKLEVININFRVRYIQYAKSR-----THPILNQAIAFYITNLYCGLRND-LQGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 50309887 | ref | XP_454957.1 | KFNPLLHAGAKLAKNRGDSNGSELQPIVAIPFIRKYIQYAKER-----TIPQLTOEADVIYVGLRND-VEGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 45198873 | ref | NP_985902.1 | KYDPLLHAGAKLAKNRGDRGAELEPKVVISIPFIRKYIQYAKER-----TIPVLTOEADVIYVGLRND-VEGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 6320803 | ref | NP_010882.1 | KFNPLLQAGAKLAKNRGNYNGTEIPKLVIPFIRKYIQYAKER-----KIPVLTOEASDRIADIYVGLRND-VEGNQRRTSPMVRTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 24639835 | ref | NP_511048.2 | KYDALLHGKSRQRH-----EKILSVFEMRKYIHYAKR-----MKPKLGEQACEATANYSRLRSQEAIVEDVARTQPIARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 58396614 | ref | NP_322026.2 | KYDPLLHGKSRKRT-----DQILSMEFMRKYIHYAKR-----LKPPLTOEACEMINSEYRSLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 6631095 | ref | NP_002379.2 | KHDNLLHG-TKKKK-----EKMVSAAFMKYIHYAKI-----IKPVLTOEASATYIABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 114607814 | ref | XP_001151750.1 | KHDNLLHG-TKKKK-----EKMVSAAFMKYIHYAKI-----IKPVLTOEASATYIABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 73973306 | ref | XP_538960.2 | KHDNLLHG-TKKKK-----EKMVSAAFMKYIHYAKI-----TKPILTOEASAAIYABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 33859484 | ref | NP_032589.1 | KHDNLLHG-TKKKK-----EKMVSAAFMKYIHYAKI-----TKPILTOEASAAIYABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 109485811 | ref | XP_236988.4 | KHDNLLHG-SKKKK-----EKMVSAAFMKYIHYAKI-----TKPILTOEASAAIYABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 61888858 | ref | NP_001013604.1 | ----- 900
gi | 57530231 | ref | NP_001006421.1 | KHDNLLHG-PNRRK-----EKIVSMEFMRKYIHYAKI-----IKPVLTOEASADYIABEYSRLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 47086897 | ref | NP_997732.1 | KHNPLLHG-SKKNK-----DRVVSAFMFKYIHYAKA-----ISPVLTQDANHIAEYRSLRSQDMSDARTSPVARTLEIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
gi | 124506457 | ref | XP_001351826.1 | EYETPIFANRDEMIYYDK---NGVEHELIVPFPKKYLHYVKNIFVYHKKQRTDQWKPYPYEVSEACEVITELVADLREARAKYSHNKLIQGVPRILEAIIIRLAAHAKMKLRNVEERDAAAESILRFALFKEVVEVDESRKKRRK----- 900
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



gi|15237411|ref|NP_199440.1|-----P^{ER}QR^QAE^QERT^PSGRR^NQ-----RR^NNED^GAEND^TANV^DSET^ADP^MEV^DEP-----V^VEQ^FSG-----1050
 gi|115464471|ref|NP_001055835.1|-----EM^EMK^QQAD^DDAG^SGN^ADE-----HR^SSS^GN-----D^MMD^VDV^G-----NAS^NDQ-----1050
 gi|145613273|ref|XP_363833.2|-----T^NVE^YAS--SS^EDD^SSD^EDD^D--G^DL^RST^AR^AST^SR^SA^RG^TA^RT^RRR^G--AV^NANG^RR--AD^TS^GAP^VD^ADD^DED^QE^PE--AS^APR^RSN^RS^GR^GAV^AS--SQ^SQ^SQ^VSY^ASS^VP^AS^QLE^QED^DED^AE^AD^GL^A-----1050
 gi|32416474|ref|XP_328715.1|-----P^RPA^EGED^GMS^SSD^SSD^DDD^DD^VAT^QTT^TARS^AAR^ASR^AS^RAS^RQ^RAS^RRT^PANG^AS^SSA^AAN^ANG^TPRE^EEE^QQ^AEE^EED^IY^DAT^PRR^SRS^ART^GD^SQ^PE^FA^SL^PAS^QLR^STR^SQR^SSR^TA^QN^QDD^EE^LAS^GA^NL^N-----1050
 gi|19075295|ref|NP_587795.1|-----K^RL^EA^GE^EF^DS^EDD^NSD^MDI^EEE^SEE^MD^TNM^VIDS^GSR^RRV^TRS^QN^AT^SQ^SQ^ESG^SE-----I^GSS^IAG-----TAG^SYN^VG^T-----NT^QLS^WP^STH^ST^LP^AT^SREL^ASS^DR^NINT^GTS^VA-----1050
 gi|50309887|ref|XP_454957.1|-----F^DE^QE^FA^EGR^TT^EKS-----P^RKK^PRA^SP^RKK^RG^AV^YKE^VD^SE^DA^E--E^DQ^MA^EL^TQ^PD^AD^GL^EST--M^VR^LA^PE^QE-----E^DL^QRR^LE^QN^LR^VS^PRR^QLS^VRR^VLS^QSD^HQ^QV^LH^SSQ^SST^GP^LE^IGS^QLE^PS-----1050
 gi|45198873|ref|NP_985902.1|-----K^RCR^IRM^YTE^EE^PA^PAL^QSH^SG^AD^AD^AT^SSS^IV^AT^PIR^AR--NL^PRI^DPD^ASD^AED^DGD^AV^LLD^ST^SIT^LP-----M^TRL^PH^DE^E-----L^DL^QRR^MER^GLR^VSP^R-----LA^SRR^LLS^DEN^LPA^HPP^TS^AAM^RQ^HL^QQ--AA^HSP^S-----1050
 gi|6320803|ref|NP_010882.1|-----Y^EE^ALS^KR^SP^QK^RQ^RVR^QP^ASN^SGS^FIK^ST^PRR^ST^ASS^VN^AT^PSS^ARR^LLR^FQ^DE^QN^AG^EDD^ND^IMS^PL^PA^DEE-----A^EL^QRR^LQL^GLR^VSP^R-----R^RE^HL^HA^EEG^SGF^LTV^GT^PRL^NV^E--S^AG^QDD-----1050
 gi|24639835|ref|NP_511048.2|-----NS^GSD^AED^DNG^EASS^RS-----P^SRR^SK^RT^RT^ATV^GADS^EED^EIE^PFP^DAG^DL-----TR^RET^RRR^LSP^ASV^AML^MAS^PSE^EEQ^VA^LST^E-----1050
 gi|58396614|ref|XP_322026.2|-----N^DDS^QD^EME^DDE^EEA^VQ^EE^TA^ASG^TRR^SK^RT^RVE^HH--D^DS^DH^ELL^TS^PPD^RGD^L-----TR^RT^TI^S--P^RVA^ESA^LMD^TE^AA^ES^VVA-----1050
 gi|6631095|ref|NP_002379.2|-----D^ESE^TDE^EE^EK^SQ^E--D^QE^QK^R-----K^RRR^KT^RQ^PDA^KD^GS^DY^DY^DFS^DTE^EEM^P-----Q^VHT^PK^IADS^OE-----TK^ESQ^KV-----1050
 gi|114607814|ref|XP_001151750.1|-----D^ESE^TDE^EE^EK^SQ^E--D^QE^QK^R-----K^RRR^KT^RQ^PDA^KD^GS^DY^DY^DFS^DTE^EEM^P-----Q^VHT^PK^IADS^OE-----TK^ESQ^KV-----1050
 gi|73973306|ref|XP_538960.2|-----D^ESE^TDE^EE^EK^SQ^E--D^QE^QK^S-----K^RRR^KT^RH^PDA^KD^GS^DY^DY^DFS^DTE^EEM^P-----Q^VHT^PK^IADS^OE-----TK^ESQ^KV-----1050
 gi|33859484|ref|NP_032589.1|-----D^ESD^LDE^EE^EK^SQ^E--D^TE^QK^R-----K^RRR^KT--H^AK^DG^ES^DY^DY^DFS^DEA^ET^OMP-----Q^VHT^PK^IADS^OE-----TK^ESQ^KV-----1050
 gi|109485811|ref|XP_236988.4|-----D^ESD^LDE^EE^EK^SQ^EED^TE^QTR-----K^RRR^KT--Q^AK^DG^ES^DY^DY^DFS^DEA^ERE^MP-----Q^VHT^PK^IADS^OE-----TK^ESQ^KV-----1050
 gi|61888858|ref|NP_001013604.1|-----D^DSE^TE^KEE^EEE^EET^QPE^KE^GR-----K^QRR^KK^ART^EEE^ESY^DY^DFS^DEA^EQ^EME^PV-----QA^HTP^KI^PESS^A-----G^EAK^KP-----1050
 gi|57530231|ref|NP_001006421.1|-----Q^DAA^SE^DEE^EEE^DE--A^DT^P-----R^PPR^RRR^RGS^QGS^ESY^DY^DY^DF--D^TE^TD^IP^OI-----QS^PAP^AR^QG^DEE-----P^DNG^HT-----1050
 gi|47086897|ref|NP_997732.1|-----E^EE^EE^EE^EE^EDE^LEE^DE^RDD^DDE^EE^KL^KK^RRR^QR^QKR^ASR^KRS^GE^KK^DL^ASN^KK^KK-----K^SE^PPN^ENG^ENY^MIDL^LPS^NK^SND^T-----1050
 gi|124506457|ref|XP_001351826.1|.....910.....920.....930.....940.....950.....960.....970.....980.....990.....1000.....1010.....1020.....1030.....1040.....1050



gi|15237411|ref|NP_199440.1|-----T^VSA^ARI^ET^FERV^FG^HMR--T^HRL^DDIS^IADI^ET^VV^NNG-----V^GAS^RY^SAD^EIM^ALL^EK^LQ^DDN^KVM^ISD^GK^VHI^I-----1167
 gi|115464471|ref|NP_001055835.1|-----D^VPA^RI^EEA^FE^AIL^GQ^HVL--AN^HLD^QIS^IDI^EEQ^TVR-----E^AAA^PV^NNR^QVE^FIL^ER^MQ^DAN^RIM^RD^GIV^RII-----1167
 gi|145613273|ref|XP_363833.2|-----D^EAA^AL^NI^GQ^DD^GPE-----I^TAS^RL^GA^FR^QAL^GQ^LQS^IDL^FED^DAS^LDN^VTAV^NAK^I--G^SRS^GG--AF^SK^DE^AV^KAL^RK^MDE^AN^QVM-----1167
 gi|32416474|ref|XP_328715.1|-----V^DED^EDE^EMD^VGE^AAP^NQ^EEEEE^EEEEE^EDE^EEP^AI^SE^HRL^DV^FRR^AL^GPL^LN^GL^FED^DAA^DV^DEL^IK^AV^NE^KI^PGG^RRG^EQ^KFE^KE^AL^QAL^REM^TERN^QLM^YTD^GQ^LV^YK^I-----1167
 gi|19075295|ref|NP_587795.1|-----S^EV^SA^SV^SE^QST^VS-----L^PRE^KMS^VF^MAR^LAS^LTK^SEL^FSE^BCA^SLE^DV^LE^SI^NNIE--D^DV^G--F^RE^EA^IV^AL^KE^MA^QN^KI^MF^SDN--V^VY^RI-----1167
 gi|50309887|ref|XP_454957.1|-----H^MT^LD^FMS^IEM^DQ^S-----I^ST^GRL^SSSL^SG^IV^AR^LM^QD^IFE^EES^YP^VAAL^FER^INE^QVP--E^EE^K-----F^VV^DE^YV^AGL^RI^MS^DR^NL^MV^AD^GK^VVR^V-----1167
 gi|45198873|ref|NP_985902.1|-----R^APD^ESA^IVE^HIE^PGS-----I^SP^GRL^SI^ISG^II^AR^LM^QDL^FE^DEH^VP^II^ALL^EK^VNE^ELP--E^EE^K-----F^ME^EY^LAG^LN^IM^SD^RN^LM^IA^ED^KV^{VR}V-----1167
 gi|6320803|ref|NP_010882.1|-----E^QQ^SV^IS^FD^NVE^PGI-----I^ST^GRL^SL^ISG^II^AR^LM^QE^IFE^EES^YP^VAS^LFER^INE^ELP--E^EE^K-----F^SA^QE^YL^AGL^KI^MS^DR^NL^MV^ADD^KV^{VR}V-----1167
 gi|24639835|ref|NP_511048.2|-----P^AI^IS^DAR^LG^EF^KNN^LQ^RLF^R--E^ARE^QSL^ALA^RIT^TA^INV^GS-----Q^EPF^TAGE^IE^AV^HRM^TED^NQ^IM^VAD^DIV^{FL}I-----1167
 gi|58396614|ref|XP_322026.2|-----I^SE^ARL^KL^FR^QGV^FMA^FK--H^FH^DQ^SVL^ARL^TTH^IEN^SG-----D^EAF^TP^GE^IT^AV^NQ^MT^ES^NI^MV^HDD^MV^{FL}I-----1167
 gi|6631095|ref|NP_002379.2|-----E^LSE^SRL^KAF^KV^ALL^DV^FR--E^AHA^QS^IGM^NRL^TES^INR^DS-----E^EPF^SSV^EI^QAAL^SK^MQ^DDN^QVM^VSE^GI^IFL^I-----1167
 gi|114607814|ref|XP_001151750.1|-----E^LSE^SRL^KAF^KV^ALL^DV^FR--E^AHA^QS^IGM^NRL^TES^INR^DS-----E^EPF^SSV^EI^QAAL^SK^MQ^DDN^QVM^VSE^GI^IFL^I-----1167
 gi|73973306|ref|XP_538960.2|-----E^LSE^SRL^KAF^KV^ALL^DV^FR--E^AHA^QSV^GM^NRL^TES^INR^DK-----E^EPF^SSA^EI^QAAL^SK^MQ^DDN^QVM^VSE^GI^IFL^I-----1167
 gi|33859484|ref|NP_032589.1|-----E^LSE^SRL^KAF^KAA^LLV^FQ--E^AHA^QSV^GM^LHL^TES^INR^N-----E^EPF^SSE^EI^QAAL^SSR^MQ^DDN^QVM^VSE^GI^VFL^I-----1167
 gi|109485811|ref|XP_236988.4|-----E^LSE^SRL^KAF^KAA^LLV^FQ--E^AHA^QSV^GM^LHL^TES^INR^N-----E^EPF^SSE^EI^QAAL^SSR^MQ^DDN^QVM^VSE^GI^VFL^I-----1167
 gi|61888858|ref|NP_001013604.1|-----E^LAD^PRL^KAF^KAA^LLV^FK--S^SHA^QSV^GL^KN^VMS^INR^DN-----P^EPF^SLAG^VK^VAL^AH^MQ^DDN^QIM^VSD^DI^IFL^I-----1167
 gi|57530231|ref|NP_001006421.1|-----E^LSE^DRF^KE^FKA^AL^HK^VFR--S^SHA^QSV^GL^IAL^MES^IN^KSC-----P^SAF^NET^DF^RAAL^AR^MQ^DDN^QML^ADD^II^IFL^I-----1167
 gi|47086897|ref|NP_997732.1|-----L^DI^KE^IER^LIV^ENV^TL^ND^PGD^LK^DV^EL^LDL^IL^IL^GN^KDK^MP-----E^LSK^LD^IN^QLR^II^NSL^NDM^DG^AP^IY^VV^KDK^IV^YK-----1167
 gi|124506457|ref|XP_001351826.1|.....1060.....1070.....1080.....1090.....1100.....1110.....1120.....1130.....1140.....1150.....1160.....

