

gi | 109689705 | ref | NP_543019.2 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 114682613 | ref | XP_001167914.1 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 119906104 | ref | XP_594815.3 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 123959722 | ref | NP_001074177.1 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 109469275 | ref | XP_001067223.1 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 118100911 | ref | XP_425727.2 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150
gi | 60279687 | ref | NP_001012517.1 | ... MSVRLRFLSPGD ... GAVGVVGRSASFAGFSSAG ... FRRIAKSIINRNSVRSR ... MPAKSSKMYGTLRKGSCVADPKP ... QVKKIFEALKRGLKLEYLVCVQ ... 150



gi | 109689705 | ref | NP_543019.2 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 114682613 | ref | XP_001167914.1 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 119906104 | ref | XP_594815.3 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 123959722 | ref | NP_001074177.1 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 109469275 | ref | XP_001067223.1 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 118100911 | ref | XP_425727.2 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300
gi | 60279687 | ref | NP_001012517.1 | ... AELDHLGRHKDTRNSRLAFYDLDKQTRCVERHIRKMEFHI ... SKVDDELVEYCIQRLRDGAS ... SMORAFARCPPSRAARES ... LQELGRSLHECAEDMWLIEGAL ... EVHLGEFHIRMKGLVGYARLCPGDHYEVL ... MRLGRQRWKLKGRIESD ... 300



gi | 109689705 | ref | NP_543019.2 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 114682613 | ref | XP_001167914.1 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 119906104 | ref | XP_594815.3 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 123959722 | ref | NP_001074177.1 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 109469275 | ref | XP_001067223.1 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 118100911 | ref | XP_425727.2 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450
gi | 60279687 | ref | NP_001012517.1 | ... DSQTWDEEEKAFIPNLHENLDIKVTELRGLGSLAVGAVT ... CDIADFFTRPOVIVVDITELG ... IKLQLELVQWNPFD ... ESFLVSPSPGKFSMGSRKGS ... LYNWPPSTPFRERYL ... SVLQOPTQA ... LLLGGPRATSILSYLSD ... SDI ... 450



gi | 109689705 | ref | NP_543019.2 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 114682613 | ref | XP_001167914.1 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 119906104 | ref | XP_594815.3 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 123959722 | ref | NP_001074177.1 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 109469275 | ref | XP_001067223.1 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 118100911 | ref | XP_425727.2 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600
gi | 60279687 | ref | NP_001012517.1 | ... RGPSLRSQSC ... ELPEMDS ... FSSQEDPRDTETSTASTSDVGFPLP ... LTFGPHASIT ... EEEAREDP ... LPPGLLPEMAHLSGGPF ... AEPG ... WRNLGVE ... SPSLPOGSLFHS ... GTASS ... QNGHEGAT ... GDREDGPGV ... ALEGPL ... EVLELLRPTDSTQ ... 600



gi | 109689705 | ref | NP_543019.2 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 114682613 | ref | XP_001167914.1 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 119906104 | ref | XP_594815.3 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 123959722 | ref | NP_001074177.1 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 109469275 | ref | XP_001067223.1 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 118100911 | ref | XP_425727.2 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750
gi | 60279687 | ref | NP_001012517.1 | ... POLRELEYOVGLGRDRLKP ... CRARQEH ... TSAESL ... M ... ECILESFAFLNAD ... FALDEL ... SLFG ... GSQGLR ... KDRP ... LPPPS ... LKASSR ... E ... LTAGAP ... EL ... DVLLVH ... LVC ... KALL ... OKLAS ... PNL ... SRLV ... QECLL ... 750



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gi		109689705		ref		NP_543019.2		EEVAQKHVLETLVLDPEKVGKATIEEIIPOASRTKGCKLWRGCTGPGRVLSCPATLLNQLKKTFLHRVRGKYPGQLEIACRRLLEQVVS CGGLLPAGLPEEQIITWFOFHSYLQROSVSDLEKHFQLTKEVTLIEELHCAGQA	900
gi		114682613		ref		XP_001167914.1		EEVAQKHVLETLVLDPEKVGKATIEEIIPOASRTKGCKLWRGCTGPGRVLSCPATLLNQLKKTFLHRVRGKYPGQLEIACRRLLEQVVS CGGLLPAGLPEEQIITWFOFHSYLQROSVSDLEKHFQLTKEVTLIEELHCAGQA	900
gi		119906104		ref		XP_594815.3		EEAAQKHVLETLVLDPEKVGKATIEEIIPOASRTKGCKLWRGCTGPGRVLSCPATLLNQLKKTFLHRVRGKYPGQLEIACRRLLEQVVS CGGLLPAGLPEEQIITWFOFHSYLQROSVSDLEKHFQLTKEVTLIEELHCAGQA	900
gi		123959722		ref		NP_001074177.1		EEAVQQRQVLEVLSDLDLEQVSKARVEEIIPOASHRKGGALWQCTQPGGVLCAPASTLLSOLKKTFLHRVRGKYPGQLEIACRRLLEQVVS CGGLLPAGLPEEQIITWFOFHSYLQROSVSDLEKHFQLTKEVTLIEELHCAGQA	900
gi		109469275		ref		XP_001067223.1		-----VSGWGLARVG-AGSKGSETPQSGDRN--LP-----	900
gi		118100911		ref		XP_425727.2		EEVS-----EQLQVLDGVDLMSVEEIIQTKKKKHVLYKINSDVAEPGSIILFASAEFRHVLKYILALKVKEKYPGQLEAVLRKLEQIVTCDGLLPSFCLQTEP-VILFQFYSYLEKHQIISLEKHIQRLAKEVMLIEELCCPGRIL	900
gi		60279687		ref		NP_001012517.1		DELRSRIVNVLEKIAALS-QKLIIDEISAADLLSKT--PKGIEVFWKECCESDSAFCCSLEAFRLALRKHFIHKVKAKEFGQTDVFNQLLHVQVQ-CGMVASVTLTCTAERLIVFQLLVYLSRWIITDFGEHISLLSKEVYLLIACLESFKRR	900

.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



gi		109689705		ref		NP_543019.2		KVVRKLGKRLGQLQPLPQTLRAWALLQLDGTFRVCRASARLAGAVNRNRFREKALLFYTNALAEKDARLQQAACLALKHLKLGIESIDQIASLCSQDLEAVRAAARETTLSPGKGRLAFKMDKLCSEQR-EVFCQEADVEITIF	1047
gi		114682613		ref		XP_001167914.1		KAVRKLGKRLGQLQPLPQTLRAWALLQLDGTFRVCRASARLAGAVNRNRFREKALLFYTNALAEKDARLQQAACLALKHLKLGIESIDQIASLCSQDLEAVRAAARETTLSPGKGRLAFKMDKLCSEQR-EVFCQEADIEITIF	1047
gi		119906104		ref		XP_594815.3		RTVVRKLGKRLGQLQPLPQTLRAWALLQLDGPFRACRAASARLAGAARNKRFREKALLFYTNALAEKDARLQQAACLALKHLKLGIESIDQIASLCSQDVEAVRAAARETTLSPGKGRLAFKMDRLCSQRDAAFQGEADVEITIF	1047
gi		123959722		ref		NP_001074177.1		KALRKLHGKCLSLQPLPQTLQAWALLQLDGPFRACRAARTRLASAARNKRFREKALLFYTNALNDSDAKVAQAAQVALQLGGIESCEQIVSLCSQDLEAVRAAARETTLSPGKGRLAFKMDKLCSEQR-EVFCQEADVEITIF	1047
gi		109469275		ref		XP_001067223.1		-----	1047
gi		118100911		ref		XP_425727.2		KTLKLLKGRILNRLLQPLPQSLWLLGILQLDDNHRVSKAATSCLSRAAANKRFREKALLFYTDVLVGCDAARLQQAACLALKHLKLGIESIEQVAHLCSQETEDVRNAARETTLSPGKGRQAFKMDRICEELN-DAVQGEAIEITIVF	1047
gi		60279687		ref		NP_001012517.1		RALKKLGKRLSDLPQTLGRILQLLAKLOTANHKVASAASSCLNRAASRSKFRKAVVHYTDLLKNSNINVRHEACLALKHLKLGIESIEQVAELWRSADDELNRNAARETTLSPGKGRQAFKMDRICEELN-DAVQGEAIEITIVF	1047

.....910.....920.....930.....940.....950.....960.....970.....980.....990.....1000.....1010.....1020.....1030.....1040.....

