

gi|45433552|ref|NP\_942122.2|-----MEKLLRLCCWYSWLLLFYFNQVGRGVYSRQ--DHPGFVQLASASHYWPLENVGDIHELODTTG-----D 63  
gi|77736075|ref|NP\_001029736.1|-----MKLLPLCCWHSWLLLFYCDFOVRGAHTRSH--VHPGFVQLASASHYWPLENVGDIHELODTTG-----D 63  
gi|124486787|ref|NP\_001074811.1|-----MKDLPAPFCSSWVWLLWSFCSVOVCSLQPRQA--EHPGFVQLASASHYWPLENVGDIHELODTTGALRRLNLTIVPLSHNATVFTINDSAYSNLSATVD 95  
gi|73995023|ref|XP\_543354.2|-----MRKLLW-LRRGHSWLLLYCAFQVHRVCSGSP--AHPGFVQLASASHYWPLENVGDIHELODTTG-----D 62  
gi|118098440|ref|XP\_415094.2|-----MRAALEVPVSAWGALGSAARMEQKRIKNGDILRAAEQHGSRRRATENRIRLLEENGHIFRRQDFIMTKLVCSSESDVLYGANNAVLRGFKVFSASASHYWPLEVDVGIHEFRDITNG-----D 118  
gi|56693273|ref|NP\_001008601.1|-----

1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi|45433552|ref|NP\_942122.2|-----IVEGKVNKGIYLKEEGVTLLEYGRYNSSCIKPECCGPEGVTFSSFWKTOGEOSSRPIPSAYGGQVINSNGFKVCSGGKGSVELYTR-DNSMTWEASFSPPGPYWTHVLFVTKWSKEGLKVVYVNGILSTSDPFGKVSRYGHSNVLVIGS 212  
gi|77736075|ref|NP\_001029736.1|-----IVEGKVNKGIYLKEEGVTLLEYGRYNSSCIKPECCGPEGVTFSSFWKTOGEOSSRPIPSAYGGQVINSNGFKVCSGGKGSVELYTR-DNSMTWEASFSPPGPYWTHVLFVTKWSKEGLKVVYVNGILSTSDPFGKVSRYGHSNVLVIGS 210  
gi|124486787|ref|NP\_001074811.1|-----IMEGKVNKGIYLKEEGVTLLEYGRYNSSCIKPECCGPEGVTFSSFWKTOGEOSSRPIPSAYGGQVINSNGFKVCSGGKGSVELYTR-DNSMTWEASFSPPGPYWTHVLFVTKWSKEGLKVVYVNGILSTSDPFGKVSRYGHSNVLVIGS 244  
gi|73995023|ref|XP\_543354.2|-----IVEGKVNKGIYLKEEGVTLLEYGRYNSSCIKPECCGPEGVTFSSFWKTOGEOSSRPIPSAYGGQVINSNGFKVCSGGKGSVELYTR-DNSMTWEASFSPPGPYWTHVLFVTKWSKEGLKVVYVNGILSTSDPFGKVSRYGHSNVLVIGS 211  
gi|118098440|ref|XP\_415094.2|-----IVEGMVVKGIYVTEKKGVTFLFFGRYONSCISNPEVCGPEGVTFSSFWKTOGEOSSRPIPSAYGGQVINSNGFKVCSGGKGSVELYTR-DNSMTWEASFSPPGPYWTHVLFVTKWSKEGLKVVYVNGILSTSDPFGKVSRYGHSNVLVIGS 267  
gi|56693273|ref|NP\_001008601.1|-----

.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi|45433552|ref|NP\_942122.2|-----EQDQAKCYENGFDEFIWERALTPDEIAMYFTAAIGKHALLSSTLPSLFMTSTASPVMPDTPDAYHPITITNLTEERKTFQSPGVILSYLONVSLSLPSKLSSEOTALNLTFLKAVGEITLLPGWIALSEDSAVVLSLIDITIDVVMGHIS 362  
gi|77736075|ref|NP\_001029736.1|-----DILTKSVENRAFDEFIWERALTPDEIAMYFTAAIGKHALLSSTLPSLFMTSTASPVMPDTPDAYHPITITNLTEERKTFQSPGVILSYLONVSLSLPSKLSSEOTALNLTFLKAVGEITLLPGWIALSEDSAVVLSLIDITIDVVMGHIS 358  
gi|124486787|ref|NP\_001074811.1|-----EQDQTKRVENGFDEFIWERALTPDEIAMYFTAAIGKHALLSSTLPSLFMTSTASPVMPDTPDAYHPITITNLTEERKTFQSPGVILSYLONVSLSLPSKLSSEOTALNLTFLKAVGEITLLPGWIALSEDSAVVLSLIDITIDVVMGHIS 391  
gi|73995023|ref|XP\_543354.2|-----EQDQTKRVENGFDEFIWERALTPDEIAMYFTAAIGKHALLSSTLPSLFMTSTASPVMPDTPDAYHPITITNLTEERKTFQSPGVILSYLONVSLSLPSKLSSEOTALNLTFLKAVGEITLLPGWIALSEDSAVVLSLIDITIDVVMGHIS 361  
gi|118098440|ref|XP\_415094.2|-----EQDQTKRVENGFDEFIWERALTPDEIAMYFTAAIGKHALLSSTLPSLFMTSTASPVMPDTPDAYHPITITNLTEERKTFQSPGVILSYLONVSLSLPSKLSSEOTALNLTFLKAVGEITLLPGWIALSEDSAVVLSLIDITIDVVMGHIS 417  
gi|56693273|ref|NP\_001008601.1|-----

.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi|45433552|ref|NP\_942122.2|-----SNLHGSTPOVIVGESSAMAEFVAKILPKVKNSSHYRFPARGQSFQIPHEAFRHWASTVVGLLYHSMHYLLNINPAHTKIAEAMHHDCLLFPATSHLISLEVSPPPTLSONLSSGPLITVHLKHLTRKQHSSEATNSSRNVFVYCAF 512  
gi|77736075|ref|NP\_001029736.1|-----YNLQASKPQVAIVGESSMADFVAKVLPKIMNSSHYRFPARGQNFIEIPHEAFHSAQAWTIVGLLYHSMHYLLNINPAHTKIAEAAVKNCLLSAISYLSLEVSPTPKLSONLSSGPLITVHLRHLVLS----- 489  
gi|124486787|ref|NP\_001074811.1|-----SNLQSRPHVTLTSSSSTAEFTVAKVLPALSAHYRFPARGHSYIIPREALHSQAWTIVGLLYHSMHYLLNINPAHTKIAEAVNCRDCLLSVASHLISLEVSPPPTLSONLSSGPLITVHLRHLTRKQYSDATNESNRLFYCAF 541  
gi|73995023|ref|XP\_543354.2|-----SLVTNEPOVITIGSSSMAEFVAKILLPEITINSSHYRFPARGQSFYIKVPHDARSAQAWTIVGLLYHSMHYLLNINPAHTKIAEAAVKNCLLSAISYLSLEVSPPPTLSONLSSGPLITVHLRHLTRKQYSDATNESNRLFYCAF 511  
gi|118098440|ref|XP\_415094.2|-----RNLENSLSLIVGESSVADYTLAKMHPKTLNLSHYRFPARGQSFISIPSEAFQERAWTIVGMFYHNMHYFFHSINPMDTKIAEAAVKNCLLSAISYLSLEVSPPPTLSONLSSGPLITVHLRHLTRKQYSDATNESNRLFYCAF 567  
gi|56693273|ref|NP\_001008601.1|-----

.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi|45433552|ref|NP\_942122.2|-----LDFSSCGEVVSNHCCALTRCNLYSVCRCHTLNFMAILMVPVLELARGHCVALSISYVCCSLVLCVAVLVFAVLSVSTIRNQRVHIHANLSFAVLVAQVLLLIQFRLEPGTTPCQVMAVLLHYFFLSAFAWMLVEGLHLYSMVI 662  
gi|77736075|ref|NP\_001029736.1|-----LDFSSCGEVVSNHCCALTRCNLYSVCRCHTLNFMAILMVPVLELARGHCVALSISYVCCSLVLCVAVLVFAVLSVSTIRNQRVHIHANLSFAVLVAQVLLLIQFRLEPGTTPCQVMAVLLHYFFLSAFAWMLVEGLHLYSMVI 489  
gi|124486787|ref|NP\_001074811.1|-----LNFSSCGEVVSNHCCALTRCNLYSVCRCHTLNFMAILMVPVLELARGHCVALSISYVCCSLVLCVAVLVFAVLSVSTIRNQRVHIHANLSFAVLVAQVLLLIQFRLEPGTTPCQVMAVLLHYFFLSAFAWMLVEGLHLYSMVI 691  
gi|73995023|ref|XP\_543354.2|-----LDFSSCGEVVSNHCCALTRCNLYSVCRCHTLNFMAILMVPVLELARGHCVALSISYVCCSLVLCVAVLVFAVLSVSTIRNQRVHIHANLSFAVLVAQVLLLIQFRLEPGTTPCQVMAVLLHYFFLSAFAWMLVEGLHLYSMVI 661  
gi|118098440|ref|XP\_415094.2|-----LDFSSNGTGVVSNHCCALTRCNLYSVCRCHTLNFMAILMVPVLELARGHCVALSISYVCCSLVLCVAVLVFAVLSVSTIRNQRVHIHANLSFAVLVAQVLLLIQFRLEPGTTPCQVMAVLLHYFFLSAFAWMLVEGLHLYSMVI 717  
gi|56693273|ref|NP\_001008601.1|-----

.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi|45433552|ref|NP\_942122.2|-----KVFGESESKHRYYYGMGWGFPPLLCIISLSFAMDSYGTSNKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVNGCAVVFQYMFATLNSLOGLFIFLPHCLLNS 812  
gi|77736075|ref|NP\_001029736.1|-----KVFGESESKHLYYYGIGWGPCPLLCIISLSFAMDSYGTSDKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVSDRALVFQYMFATLNSLOGLFIFLPHCLLNS 489  
gi|124486787|ref|NP\_001074811.1|-----KVFGESESKHRYYYGIGWGPCPLLCIISLSFAMDSYGTSMKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVNSQALAFQYVFAVAILNSLOGFFIFLPHCLLNS 841  
gi|73995023|ref|XP\_543354.2|-----KVFGESESKHRYYYGIGWGPCPLLCIISLSFAMDSYGTSMKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVNSQALAFQYVFAVAILNSLOGFFIFLPHCLLNS 811  
gi|118098440|ref|XP\_415094.2|-----KVFGESESKHLYYYGIGWGPCPLLCIISLSFAMDSYGTSMKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVNSQALAFQYVFAVAILNSLOGFFIFLPHCLLNS 867  
gi|56693273|ref|NP\_001008601.1|-----KVFGESESKHRYYYGIGWGPCPLLCIISLSFAMDSYGTSMKWLSSLAGAIWAFVAPALFVIVVNGILIAVTRVISHIADNKYKHGDPFAFKLTAKAVAVLLPILGTSWVFGVLAVNSQALAFQYVFAVAILNSLOGFFIFLPHCLLNS 178

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



gi		45433552		ref		NP_942122.2		VRAAFKHKTKVWSLTSSSARTSN	AKPFH	DLMNGTRPGMASTKLS	PWDKSSSAHRV	DL	SAV	874	
gi		77736075		ref		NP_001029736.1		-----						489	
gi		124486787		ref		NP_001074811.1		VRAAFKHKTKVWSLTSSSARTANT	KPFSS	DTVNGTRPGTASTKLS	PWDKSSSAHRV	DL	SAV	903	
gi		73995023		ref		XP_543354.2		VRAAFKHKTKVWTLTSSSSRNIN	VKPFSS	DIINGTRPGTVSTKLS	PWDRGSSSAHRMD	LS	TV	873	
gi		118098440		ref		XP_415094.2		VRAAFKHKTKVWSLTSSSARNIN	VKPFNS	DIMSGNRPGTPTKLN	TWDKSTNSANR	IDL	SAV	929	
gi		56693273		ref		NP_001008601.1		VRAAFKHKTKVWTLTSSSIRNIN	VKPFNS	DI MNGNKGGMSP	KMNTW	DKSTNSANR	IDL	SAV	240
								.....910.....920.....930.....940.....950.....960..							

