

gi | 31543728 | ref | NP\_062715.2 | MEKHKQ-----EETGELTLVLALALIAAFGSSFOYGYNVAAVNSPEFMOQFYNDIYDRNEENIESFTLLLLWSLTVSMFPFGGFIGSLMVGTLVNLGRKGALLFNNIFSILPAILMGCSTIAQSFELIIISRLLVGICAGIS 150  
gi | 13929044 | ref | NP\_113929.1 | MEKEDQ-----EKTGKLTLLVLALALFLAAFSSFOYGYNVAAVNSPEFMOQFYNDIYDRNKENIESFTLLLLWSLTVSMFPFGGFIGSLMVGTLVNLGRKGALLFNNIFSILPAILMGCSTIAKSFELIIASRLLVGICAGIS 150  
gi | 4507013 | ref | NP\_003030.1 | MEQODOS-----MKEGRLTLVLALALIAAFGSSFOYGYNVAAVNSPALLMOQFYNETIYGRTEGFEMDFPLTLLWSVTVSMFPFGGFIGSLLVGTLVNLKFRKGALLFNNIFSIVPAILMGCSTVATSFELIIISRLLVGICAGIS 150  
gi | 114553038 | ref | XP\_001159934.1 | MEQODOS-----MKEGRLTLVLALALIAAFGSSFOYGYNVAAVNSPALLMOQFYNETIYGRTEGFEMDFPLTLLWSVTVSMFPFGGFIGSLLVGTLVNLKFRKGALLFNNIFSIVPAILMGCSTVATSFELIIISRLLVGICAGIS 150  
gi | 73956859 | ref | XP\_546760.2 | MEQODPT-----KKEGRLTLVLALALIAAFGSSFOYGYNVAAVNSPAELMKAFYNETYFERNNNYINIEFSLTLLWSVTVSMFPFGGFIGSLMVGTLVNLKFRKGALLFNNIFSIVPAILMGCSTVATSFEMIILSRLLVGICAGIS 150  
gi | 155722981 | ref | NP\_001094512.1 | MEPODPV-----KREGRLTPVIVLALALIAAFGSSFOYGYNVAAVNSPEFMKDFNYIYDRVGEYMNIEFYLTLWSVTVSMFPFGGFIGSLMVGTLVNLGRKGALLFNNIFSIVPAILMGCSTVATSFEMIIVARVLVGIAGIS 150  
gi | 118101060 | ref | XP\_417596.2 | MEMNGEKDESSSVREGKGRMTLPLALVLLISAFGSSFOYGYNVSIVNSPAPYMDQFYNYIYDRHGVEMDASFOQLLWSLTVSMPLGGFFGSLMVGTLVNLGRKGALLFNNIFSIVAAVLMGTSSEVAKTFEVIIVSRVIMGIVAGIS 150



gi | 31543728 | ref | NP\_062715.2 | SNVVPMYLGE LAKNLRGALGVVPQLFIIVGILVAQLFGLRSLLANEDGWPVLLGLTGVPAAGLQLLLLPFPFESPRVLLIQKDEAAAKALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFTMQSLRWQLISMIIVLMAGQQLSG 300  
gi | 13929044 | ref | NP\_113929.1 | SNVVPMYLGE LAKNLRGALGVVPQLFIIVGILVAQLFGLRSLLANEDGWPVLLGLTGVPAAGLQLLLLPFPFESPRVLLIQKKNESAALKALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFRMQSLRWQLISIVIVLMTGQQLSG 300  
gi | 4507013 | ref | NP\_003030.1 | SNVVPMYLGE LAKNLRGALGVVPQLFIIVGILVAQIFGLRSLLANEDGWPVLLGLTGVPAALQLLLLPFPFESPRVLLIQKDEAAAKALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFRMRSLRWQLISIVIVLMTGQQLSG 300  
gi | 114553038 | ref | XP\_001159934.1 | SNVVPMYLGE LAKNLRGALGVVPQLFIIVGILVAQIFGLRSLLANEDGWPVLLGLTGVPAAGLQLLLLPFPFESPRVLLIQKDEAAAKALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFRMRSLRWQLISIVIVLMTGQQLSG 300  
gi | 73956859 | ref | XP\_546760.2 | SNVVPMYLGE LAKNLRGALGVVPQVFIIVGILVAQIFGLRSLLANEKGPVILLGLTGVPAALQLLLLPFPFESPRVLLIQKDEAAAKALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFRMRSLRWQLISIVIVLMTGQQLSG 300  
gi | 155722981 | ref | NP\_001094512.1 | SNVVPMYLGE LAKNLRGALGVVPQLFIIVGILVAQIFGLRSLLANEDGWPVLLGLTGVPAVLQLLLLPFPFESPRVLLIQKDEAAAKALRRLRGLWHDVDAEITBEILEEDRAEKAVGFIIVLKLFRMRSLRWQLISIVIVLMTGQQLSG 300  
gi | 118101060 | ref | XP\_417596.2 | SNVVPMLGEMSPRNLRCATIGVVPQLFIIVGLILIAQILGLTSLGHVKGWPLLLGLTGVPAALQLLLLPFPFESPRVLLIQKNEDEARQALQTLRGWGDVHLEMBEIRKDEAEKAAGFISVWKLFRMRSLRWQLISIVVMMMGQQLSG 300



gi | 31543728 | ref | NP\_062715.2 | VNAIYYADQIYLSAGVKSDDVQYVITAGTGA VNVFMTLLIFVVELWGRRLFLLVGFSTCLLIACVLTAALALQNTISWMPYISIVCVISYVIGHALGSPPIPALLITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 13929044 | ref | NP\_113929.1 | VNAIYYADQIYLSAGVKSNDVQYVITAGTGA VNVFMTLVFVVELWGRNLLIGFSTCLLIACVLTAALALQNTISWMPYVSIVCVISYVIGHALGSPPIPALFITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 4507013 | ref | NP\_003030.1 | VNAIYYADQIYLSAGVPEEHVQYVITAGTGA VNVVMTCAVVFVVELLGRRLFLLVGFSTCLLIACVLTAAALALQNTISWMPYISIVCVISYVIGHALGSPPIPALLITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 114553038 | ref | XP\_001159934.1 | VNAIYYADQIYLSAGVPEEHVQYVITAGTGA VNVVMTCAVVFVVELLGRRLFLLVGFSTCLLIACVLTAAALALQNTISWMPYISIVCVISYVIGHALGSPPIPALLITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 73956859 | ref | XP\_546760.2 | VNAIYYADQIYLSAGVNDHDVQYVITAGTGA VNVLMTICAAFVVELLGRRLFLLVGFSTCLLIACVLTAAALALQNTISWMPYVSIVCVISYVIGHALGSPPIPALLITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 155722981 | ref | NP\_001094512.1 | VNAIYYADQIYLSAGVNDHDVQYVITAGTGA VNVLTICAAFVVELLGRRLFLLVGFSTCLLIACVLTAAALALQNTISWMPYVSIVCVISYVIGHALGSPPIPALLITEIFLQSSRPAAYMIGGSHVWLSNFTVGLIFPFIQVGLGYSF 450  
gi | 118101060 | ref | XP\_417596.2 | INAVFYADRIFLSAGVETDHYVIVTSGAINVLMITLLAVFVIESLGRIRILLAGFGCCGSCAVLTLALNLQNTISWMSYLSIVCVIYIYIIGHAIGASPIPFVMTIEMFLQSSRPAAYMIGGSHVWLSNFTVGLIFVFLVMEAGLAYSF 450



gi | 31543728 | ref | NP\_062715.2 | IIFAVICFLTIIYIFMVPETKGRTEFIEINQIFMKNKVSDVYPEKEE--ELGALPHAILLEQ----- 600  
gi | 13929044 | ref | NP\_113929.1 | IIFAVICLLTIIYIFMVPETKGRTEFVEINQIFAKNKVSDVYPEKEEKLNDLPPATREC----- 600  
gi | 4507013 | ref | NP\_003030.1 | IVFAVICLLTIIYIFLIVPETKAKTFIEINQIFTKMKVSEVYPEKEE--LKELPVVTSEC----- 600  
gi | 114553038 | ref | XP\_001159934.1 | IVFAVICLLTIIYIFLIVPETKAKTFIEINQIFTKMKVSEVYPEKEE--LKELPVVTSEC----- 600  
gi | 73956859 | ref | XP\_546760.2 | IIFAVICLLTIIYIFLIVPETKAKTFMEINQIFTKMKVSEVYPEKEE--LKDFPLSTLGLQPLLLVSLSAAGLILFYYSYNIYVVRNPEVGGRLRKRPLLLGLSDICGLACLLILMLLFGSPFFCSMGFVGEHARAVPKLSY 600  
gi | 155722981 | ref | NP\_001094512.1 | VIFAVICLLTIIYIFLIVPETKSKTFIEINRIFTKMKVSEVYPEKEE--LKEFPSTARC----- 600  
gi | 118101060 | ref | XP\_417596.2 | LIFCGICLAVMVIFFVPEPKNKTFMEINRIMAKRNKVEITQDVEQMMDLQTVPSVKADKSEVLGSDL----- 600



gi | 31543728 | ref | NP\_062715.2 | ----- 692  
gi | 13929044 | ref | NP\_113929.1 | ----- 692  
gi | 4507013 | ref | NP\_003030.1 | ----- 692  
gi | 114553038 | ref | XP\_001159934.1 | ----- 692  
gi | 73956859 | ref | XP\_546760.2 | SGIIICVFAXIVGHSVGPSEHLHLPLASQGLAHGRAHPLHVRTEIFLQSSRPAAFVASGAVHGPSNLTMSFLSPSIQGVHILEDIMSPPLEG 692  
gi | 155722981 | ref | NP\_001094512.1 | ----- 692  
gi | 118101060 | ref | XP\_417596.2 | ----- 692

