

gi	118099040	ref	XP_415365.2	-----MGEGDQOETFSEHQAAPEPLGQSG-GHWGWSCHGMGRRRSRVG-----LTAVHAALGALILLVVLVVISVCRRAPIPP	150
gi	118098986	ref	XP_001232653.1	-----MGEGDQOETFSEHQAAPEPLGQSG-GHWGWSCHGMGRRRSRVG-----LIAVHAALGALILMLVVLVVISVCRRAPIPP	150
gi	118098984	ref	XP_001232627.1	-----MGEGDQOETFSEHQAAPEPLGQSG-GHWGWSCHGMGRRRSRVG-----LIAVHAALGALILMLVVLVVISVCRRAPIPP	150
gi	118099059	ref	XP_001231207.1	-----MGEGDQOETFSEHQAAPEPLGQSGERSQWGSWCHGTGRRRSRVG-----LIAACAAALGTLVLVVLVVISV	150
gi	118098978	ref	XP_415360.2	-----MGEGDQOETFLEHKAATEPR-----SWCHGVGRRRSRVG-----LIAACAAALGALILVLVIV--ISNARWVFPVPP	150
gi	118098982	ref	XP_001231743.1	-----MGEGDQOETFSEHKAATEPLGQSG-----SWCHGMGRRRSRVG-----LIAVHAALGAFILMLVVLVVISVACRQVFPVPP	150
gi	118099026	ref	XP_001231950.1	-----MG-GDQOETFLEHQAAPPEPLGQSG-----SWCHGAGRRRSRVG-----LIAACAAALGALILVVLVVIS--VCRQVFPVPP	150
gi	118099012	ref	XP_001232944.1	-----MPFVGECDQRETFSEHQAAPEPPEE-----SWCHGAGRRRSRVG-----LIAACAAALGALILVVLVVIS--VCRQVFPVPP	150
gi	118099024	ref	XP_423996.2	-----MRGKKGKHKHKNHFYQRLPSSDPOLPEEDVQILLESNTSTPTTIGEGDQOETFSEHKAATEPLGQSG-----SWCHGTGRRRSRVG-----LIAVCAALGALILMLVVLVVIS--VCRQVFPVPP	150
gi	118099007	ref	XP_425310.2	-----MSSGSKMRTNER--PHHRVGRVT-----GSRCHVIGRRRSRVG-----LIAVCAALGTLVLVVLVILL--DECHQVFPVPP	150
gi	118098971	ref	XP_001232527.1	-----MESVSA-----ARNNT-----	150
gi	118098990	ref	XP_001232736.1	-----MESMSAGDVTGCRADLA-----SRNNT-----	150
gi	118118399	ref	XP_416058.2	-----MLEVFSSR-----	150
gi	118111357	ref	XP_422961.2	-----ADCVTHELLSVVPGSG-----CEELRQNRRC-----VLCVALCAVLCILVLSALVAVIVLQRFSCFP	150
gi	118113673	ref	XP_001231244.1	-----	150
gi	118081854	ref	XP_423496.2	-----MPLFLSPFRSL-----GKRWRSPPPREATAREGDEKRSQSGSG-----CKELRQNRRC-----VLCVALCAVLCILVSVVVAVIVLQRFSCFP	150
gi	45382191	ref	NP_990760.1	-----MPLFLSPFRSLREVLAKKSAAPPALCPQPPDPSLLILHAAGAVPHLYDATEEKERLSPPREATAREGDEKRSQSGSG-----CKELRQNRRC-----VLCVALCAVPCMLVVALVAVIVLQRFSCFP	150
gi	118116619	ref	XP_001235979.1	-----HLRAAMEEEMR-----FSPPREATAREGDEKRSQISGR-----CEELRQNRRC-----VLCVALCAVPCILVLSALVAVIVLQRFSCFP	150
gi	118116621	ref	XP_001235984.1	-----MPLFFSPTFRFLLEVAFKKSDPLGPFVYACRDPSSLILSPHTMGAVPHLGAAKEEKERLSPSPPREATAREGDEKRSQISGR-----VDFRYTRGSRALAEHTWMHPTBAHGFVHFDPHQTTPDHPHLLTQSAALVCAAMWNSS	150
gi	4502681	ref	NP_001772.1	-----MSSENCF-----VAENSSLHPES-----GO-----ENDATSPHFSTRHEG-----SFQVPLCAVMN-----VVFITLIIIALIALSVGQYNCPGQYTFSP	150
gi	114643484	ref	XP_520732.2	-----MSSENCF-----VAENSSLHPES-----GO-----ENDATSPHFSTRHEG-----SFQVPLCAVMN-----VVFITLIIIALIALSVGQYNCPGQYTFSP	150
gi	73997679	ref	XP_534892.2	-----MAEAEARQIIMDLLNYGKVGCFDIDASDSGKIQIVSSFYMYSCKAHFROGKPAAYHNHTERLEFIIINFLSDCAASPHFATQHEG-----SLOVPLCAVMN-----VVLITVLIILIALSVGQYNCPPDLSLVP	150
gi	27806705	ref	NP_776439.1	-----MNSBDF-----ATITSSLHLK-----REC-----SQVPLCAVMN-----VVFITLIIIALIALSVGQYNCPGQYASAP	150
gi	84370294	ref	NP_001028294.1	-----MDSENC-----ITENSSSHLER-----GO-----KDHGTSIHFEKHHEG-----SIQVSIPIVAVLI-----VVLITSLIIIALIALSVGQYNCPLGYEKLES	150
gi	61097910	ref	NP_599154.1	-----MNSBEC-----ITENSSSHLER-----GO-----RDHGTSHFEKHREG-----SIQVPIPCAVLV-----VVLITSLIIIALIALSVGQYNCPGFYENLES	150

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



gi	118099040	ref	XP_415365.2	FSAFSHACPNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LANIGSAEEM-----	300
gi	118098986	ref	XP_001232653.1	FSAFGHACPNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118098984	ref	XP_001232627.1	FPGFHACPNNAWVFGQKCCYFLKGENDWNSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAALWTSNVTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118099059	ref	XP_001231207.1	--DFAHACPNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LASIDSEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WR-----GSPFSQRIGAAFPSSLLGLGLSCEVADVRT-----	300
gi	118098978	ref	XP_415360.2	FPFAHACPNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LANIGSEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118098982	ref	XP_001231743.1	FPDFAHACPNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LANIGSEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118099026	ref	XP_001231950.1	FPDFAHACPNNAWVFGQKCYFFSEENDWNSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118099012	ref	XP_001232944.1	FPDFAHACPNNAWVFGQKCYLLSKBEYDWNSSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118099024	ref	XP_423996.2	FPDFAHACPNNAWVFGQKCYLLSKEENDWNSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118099007	ref	XP_425310.2	FPFAHACPNNAWVFGQKCYFFSEENDWNSRRECHSAGHAS-----LANIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118098971	ref	XP_001232527.1	-----HTIHNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LVTIGSAEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118098990	ref	XP_001232736.1	-----HTIHNNAWVFGQKCYFFSKEENDWNSRRECHSAGHAS-----LANIGSEEMDFMMRFQGPANCWIGLHREEDAQWTWSDGTAFTN--WFELRGGRCAYLNGDRISSSLCHLHKHWCSRADHVVWLKQKAVHP	300
gi	118118399	ref	XP_416058.2	PPPFSHVCPNASIGFQKCYFFSYTKSDWNSRRECHSAGHAS-----LANIVDIEEMGFIMQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	11811357	ref	XP_422961.2	-----MQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	118113673	ref	XP_001231244.1	-----MQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	118081854	ref	XP_423496.2	RPPFSHVVPNTWVFGHFKCYFFSDTKSDWNSRRECHSAGHAS-----LANIVDIEEMGFIMQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	45382191	ref	NP_990760.1	RPPFSHVCPNAWVFGQKCYFFSDTKSDWNSRRECHSAGHAS-----LANIVDIEEMGFIMQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	118116619	ref	XP_001235979.1	RPPFSHVCPNTSIFGQKCYFFSDTKSDWNSRRECHSAGHAS-----LANIVDIEEMGFIMQYHGPEDHWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	118116621	ref	XP_001235984.1	EPSVQDKFDTPLNLSLQKILNPTYSANEEAGEEISVGTESPTITGTLFLFIMAEVLLLEGLSSEEFMLRYRGPANCWIGLHRAEGDEHWTWADGSAFSN--WFKPQGGGCVYLHGDWINSITLCHSEKFWCSRADSVVL	300
gi	4502681	ref	NP_001772.1	SDSHVSSCEDWVGYRKKCYFISTVKRSWTSACNACSEHGAT-----LAVIDSEKDMNFKRYAGREHVVGLKK--EPGHPWKWSNGKEFNN--WFNVITGSEKCVFLKNTVEVSSMECKENLWICNPKYK-----	300
gi	114643484	ref	XP_520732.2	SDSHVSSCEDWVGYRKKCYFISTVKRSWTSACNACSEHGAT-----LAVIDSEKDMNFKRYAGREHVVGLKK--EPGHPWKWSNGKEFNN--WFNVITGSEKCVFLKNTVEVSSMECKENLWICNPKYK-----	300
gi	73997679	ref	XP_534892.2	SNSRVSSCSDDWIGYRKKCYFISTETKNWTLAQKFCYKQGAT-----LAFIDSEKDMNFKRYRGRVHVIWALKN--EDGQTKWWSNGKEFNN--WLNLTGFENCIFMNSTEVSSSTACENLHWICSKPSK-----	300
gi	27806705	ref	NP_776439.1	FNTHVAFCKNEWISYKRTCYFFSTTKSWALAQKFCSEDAAT-----LAVIDSEKDMNFKRYRGRVHVIWALKN--EAGQTKWWSNGKEFNN--WFNVITGSEKCVFLKNTVEVSSMECKENLHWICSKPSK-----	300
gi	84370294	ref	NP_001028294.1	SDHHVAACKNEWISYKRTCYFFSTTKSWALAQKFCSEDAAT-----LAVIDSEKDMNFKRYRGRVHVIWALKN--EAGQTKWWSNGKEFNN--WFNVITGSEKCVFLKNTVEVSSMECKENLHWICSKPSK-----	300
gi	61097910	ref	NP_599154.1	FDHHAASCKNEWISYKRTCYFFSTTKSWALAQKFCSEDAAT-----LAVIDSEKDMNFKRYRGRVHVIWALKN--EAGQTKWWSNGKEFNN--WFNVITGSEKCVFLKNTVEVSSMECKENLHWICSKPSK-----	300

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



gi	118099040	ref	XP_415365.2	-----	330
gi	118098986	ref	XP_001232653.1	-----	330
gi	118098984	ref	XP_001232627.1	-----	330
gi	118099059	ref	XP_001231207.1	-----	330
gi	118098978	ref	XP_415360.2	-----	330
gi	118098982	ref	XP_001231743.1	-----	330
gi	118099026	ref	XP_001231950.1	-----	330
gi	118099012	ref	XP_001232944.1	-----	330
gi	118099024	ref	XP_423996.2	-----	330
gi	118099007	ref	XP_425310.2	-----	330
gi	118098971	ref	XP_001232527.1	RVSSSLGWDA PGGGLSTASPGSLCWDLTFE	330
gi	118098990	ref	XP_001232736.1	-----	330
gi	118118399	ref	XP_416058.2	-----	330
gi	118111357	ref	XP_422961.2	-----	330
gi	118113673	ref	XP_001231244.1	-----	330
gi	118081854	ref	XP_423496.2	-----	330
gi	45382191	ref	NP_990760.1	-----	330
gi	118116619	ref	XP_001235979.1	-----	330
gi	118116621	ref	XP_001235984.1	-----	330
gi	4502681	ref	NP_001772.1	-----	330
gi	114643484	ref	XP_520732.2	-----	330
gi	73997679	ref	XP_534892.2	-----	330
gi	27806705	ref	NP_776439.1	-----	330
gi	84370294	ref	NP_001028294.1	-----	330
gi	61097910	ref	NP_599154.1	-----	330
			.....310.....320.....330		

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