

gi|16306532|ref|NP_001788.2| *****
gi|114662947|ref|XP_511011.2| *****
gi|114687888|ref|NP_033996.4| *****
gi|109507686|ref|XP_001059464.1| *****
gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
MKENYCLQAAALVCLGMLCHSHAFAP-----ERRGHLRPSFHGHHEKGKEGVQLQSRKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MKENYCLQAAALVCLGMLCHSHAFAP-----ERRGHLRPSFHGHHEKGKEGVQLQSRKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MKENYCLQAAALVCLSMLYHSAQAFAL-----ERRSHLRPSFHGHHEKGKEGVQLQSRKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MKENYCLQAAALVCLSMLYHSAQAFAL-----ERRSHLRPSFHGHHEKGKEGVQLQSRKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MKEHYCLQAAALVCLGLVCHSQAMAT-----ERRSHLRPSFHGHHEKGKEGVQLQSRKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MKEDNCLHAALICLGLMYSHAITT-----EKLNHVRPSLHGHEKGKEGVQLHRSKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 142
MWEGLRLQVFFCLGAAALWAAAAAATHRGSGPRERGRHRLSLHRHREKGEQVQLHRSKRGWVWNQFFVIEEYTGDPDVLVGRRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDRREAAQYTLMAQAVDRDNRPLEPP 147
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



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gi|114662947|ref|XP_511011.2| *****
gi|114687888|ref|NP_033996.4| *****
gi|109507686|ref|XP_001059464.1| *****
gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
SEFIVKQDINDNPPEFLHETIYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHETIYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHETIYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHETIYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHETIYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHENYHANVPERSNVGTSVIVQTASDADDDPTYGNSAKLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 292
SEFIVKQDINDNPPEFLHGPYYARVAEMSNVGTSVIKVTATDADDDPTYGNSARLVYSILEGOPYFSVEAQTGIIRLTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVITITLDVNDNPPKFPQSVYQMSVSEAAVPGEVGRVKA 297
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



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gi|114662947|ref|XP_511011.2| *****
gi|114687888|ref|NP_033996.4| *****
gi|109507686|ref|XP_001059464.1| *****
gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
KDPDIDENGLVTYNIVDGDGMESFEITTDYEYQEGVILKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
KDPDIDENGLVTYNIVDGDGMESFEITTDYEYQEGVILKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
KDPDIDENGLVTYNIVDGDGMELFEITTDYEYQDGVVLLKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
KDPDIDENGLVTYNIVDGDGMELFEITTDYEYQDGVVLLKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
KDPDIDENGLVTYNIVDGDGMELFEITTDYEYQEGVILKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
KDPDIDENGLVAYSIIIDGMDMFEITTDYEYQEGVILKKVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPVFLKPSYIFEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 442
RDPDLAENGLVDYRILEGDMYFEITKDSYQEAIVILKKPVDFETKRAYSLKVEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPAANSPIRYSIDRHTDLDRFFITINPEDGFIKT 447
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



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gi|114662947|ref|XP_511011.2| *****
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gi|109507686|ref|XP_001059464.1| *****
gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
TKPLDREETAWLNITVFAAEIHNRHQEAKVPVAIRVLVDNDNAPKFAAPYEGFICSDQTKPLSNQPIVTVSADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIKV 592
TKPLDREETAWLNITVFAAEIHNRHQEAKVPVAIRVLVDNDNAPKFAAPYEGFICSDQTKPLSNQPIVTVSADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIKV 592
TKPLDREETAWLNISVFAAEIHNRHQETKVPVAIRVLVDNDNAPKFAAPYEGFICSDHPKALSNQPIVTVSADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIKV 592
TKPLDREETAWLNISVFAAEIHNRHQEAKVPVAIRVLVDNDNAPKFAAPYEGFICSDHPKALSNQPIVTVSADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIKV 592
TKPLDREETAWLNISVFAAEIHNRHQEAKVPVAIRVLVDNDNAPKFAAPYEGFICSDQTKPLSNQPIVTVSADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTAGVYARRGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIKV 591
IKALDREETAWHNISVFVAVVHKHQEAKVPVAIKVVDNDNAPKFAAPYEAFCVCE---ARSNQPFITISADDKDDTANGPRFIFSLPPEIHNPNFTVRDNRDNTASVLRREGGFSRQKQDLYLLPVISDGGIPPMSSNTNLTIRV 588
TKPLDREAQAWHNISVSATIEGHHQDAKVRVNIKKVDNDNAPFEATQNEVLVCEN---VNGKLIETVSATDKDEMAHRQHFFSLAPEVANHHFSFLKDNDRDTSASIFVIRKGFSRMTQDIYHLPTEINDNGVPPMSSNTNLTIRV 593
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



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gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 742
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 742
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 742
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 742
CGCDVHGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 741
gi|73957350|ref|XP_864983.1| *****
gi|52138637|ref|NP_001004371.1| *****
gi|189519656|ref|XP_709341.2| *****
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 738
CGCDVNGALLSCNAEAYILNAGLSTGALIAILACVILLVIVLVFVTLRROKKEPLIVFEEEDVRENIIYDDEGGGEEDTEAFDIATLQNPDPGNGFIPRKDKPEYQYMPRGLRPAPNSVDVDDFINTRIEADNDPTAPPYDSIQI 743
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



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gi|114662947|ref|XP_511011.2|

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gi|73957350|ref|XP_864983.1|

gi|52138637|ref|NP_001004371.1|

gi|189519656|ref|XP_709341.2|

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