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gi|161077446|ref|NP_001097437.1|-----MYAVDYADMGQISDCFAAATGTGASDFDMDELDDLVQTVQVGHYPQPHDHFLAQNFMKGGDGLPNDVRYRLAIATAAARHCQPLVLRVKEEF 150
gi|158286141|ref|XP_001688028.1|-----MYSMVEYSDMGQIGODYGSKNSP-----DSSNLDHVTKVIAVHPRYLDHFLNTOKFVMOCDGLPDPYRHYIAIMAAARHCQPLVNLVVEEF 150
gi|31377591|ref|NP_653266.2|-----MNRGGGSPSAAANYLLCTNCRKVLRRDKRIRVSQPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|57102414|ref|XP_542236.1|-----MHRGGGSPSAAANYLLCTNCRKVLRRDKRIRVSQPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|37674247|ref|NP_084537.2|-----MNRGGSSASASANYLLCTNCRKVLRRDKRIRVSQPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|62653234|ref|XP_235825.3|-----MNRGGSSASASANYLLCTNCRKVLRRDKRIRVSQPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|194673175|ref|XP_594021.4|-----MMDRLGIGIQEDREDDMKLTKLDDMERGHVYQKGRLLSCDHSPPDKRIRVSQPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|118085170|ref|XP_425647.2|----------MVEKKRVQVSPPLTRGPFSAFIPEKEVVQANTVDERTNFLVVEYSTSGRLDNIITQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|47087251|ref|NP_998684.1|-----MNGTAG-----ICNHCRNLTIEKE-----KMSRHISGTPSSFIPENIIEAMPLSDSIVMLLDEEF-----GRMDNLTQVMSLHTQYLESFLRSQFVYMLRMDGPLPLPRHYIAIMAAARHCQSYLINMHVDEF 150
gi|115533566|ref|NP_490664.2|----------MTTKRRKAMDWLNFDPIPEVDRLRFRTCKPHTLHVHMTGSGYGHMFVDISDLPASARHYLAIMAAARHCQSYLINMHVDEF 150
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

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gi|161077446|ref|NP_001097437.1|LNQGGDSAWLGGDLDFPAKLRATYDINKILAHRRPWLRLKEHIERLTK-----GKNSWLSLSEVHVAMVLLSHFSLSSVFFVSCGLTQKLDGLSGLPKLKSPPAAVAALAPITLITPSTPEPOKQKPVLAETSLNANPDYDSQTAASNG 300
gi|158286141|ref|XP_001688028.1|LANGGDPNWLNGLEHIPPKLRATSDINKILAHRRPWLRLKEHIVERLTK-----GONSWLSLSEVHVAVILLAHYHSLSSVFFVSCGLTQELDGLAS-----HKIENNVLVQKAFNRLNDLYNSQHPEN--- 300
gi|31377591|ref|NP_653266.2|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VNNFCVCDLANDNNIENASLGSNGF 300
gi|57102414|ref|XP_542236.1|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VNNFCVCDLANDNNIENASLGSNGF 300
gi|37674247|ref|NP_084537.2|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VSSFCVCDLANDNNIENASLAGNFG 300
gi|62653234|ref|XP_235825.3|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VSSFCVCDLANDNNIENASLAGNFG 300
gi|194673175|ref|XP_594021.4|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VSSFCVCDLANDNNIENASLAGNFG 300
gi|118085170|ref|XP_425647.2|LKTGGIAEWLNGLEYVPPORLKNLNEINKLLAHRPWLIKKEHIQKLVKT-----GENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPEISNGFR-----LIS--VNNFCVCDLANDNNIENASLGSNGF 300
gi|47087251|ref|NP_998684.1|EIGVCSDWLRGLFPCORLRNLNEINKILAHRRPWLIKKEHIQKLVKT-----GEHSWLSLSEVHVAVVLLAHYHALASFVFGSGINPERDPEVTEVNGVTG-----DLCPVPMKGLCTCHLINSQANGNPPCSNNG 300
gi|115533566|ref|NP_490664.2|LEKGGQQMWLLGIDWSYMKFRKLDYLNRMCLHRPWLIKKEHIQKLVKT-----PDDGPAFFVCSLHHAHVIMSMTHAMCTVICCTGLERRVDLTDQDIDF-----LNIDDLDYWEARMSAYFRKVDPRRPTVEVNL 300
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300

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gi|161077446|ref|NP_001097437.1|GAPPDSANAVADGPDATLNGYLATAQQLPQQHGIVSETLMERMKVLSG--KQDECSAELESRRQKVEOOTAEALAVTF-----EAAVGVPTNLSHYVDANFIYODFARRGTESIN--TFRIODYSWEDHGYSLVYDGLVNDVGFIF 450
gi|158286141|ref|XP_001688028.1|-----LPGDGDAN-----IRPEVTVDALMQRMKRLSE--KNDECSAETELNRFKHFVEQAAELPFPVVR-----EAPADVPQQLGRYVDDPGFTYQDFARRGAENIPQTFRIODYSWDDHGYSLVNRLYNDVGFY 450
gi|31377591|ref|NP_653266.2|I-----VDSLSELEALMERMKRLQEBEREDEEASQEMSTRFEKEKESLFFVSGDIFHSPHSDPFEDDMIITSDVSRVIEDPGFGYEDFARRGEEHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|57102414|ref|XP_542236.1|I-----VDSLSELEALMDRMKRLQEBEREDEEASQEMSTRFEKEKESLFFVSGDIFHSPHSDPFEDDMIITSDVSRVIEDPGFGYEDFARRGEEHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|37674247|ref|NP_084537.2|I-----VDSLSELEALMERMKRLQEBEREDEEATREEMSTRFEKEKESLFFVSGDIFHSPHSDPFEDDVIIVTADVSRVIEDPGFGYEDFARRGEEHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|62653234|ref|XP_235825.3|I-----VDSLSELEALMERMKRLQEBEREDEEATPEEMSTRFEKEKESLFFVSGDIFHSPHSDPFEDDVIIVTADVSRVIEDPGFGYEDFARRGEEHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|194673175|ref|XP_594021.4|I-----VDSLSELEALMERMKRLQEBEREDEEASQEMSTRFEKEKESLFFVSG-----DEDDMIITSDVSRVIEDPGFGYEDFARRGEEHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|118085170|ref|XP_425647.2|I-----ADSLSELEALMERMKRLQEBEREDEEASQEMSTRFEKEKESLFFVSGGIYH-----SFDDEIVSTVSRVIEDPGFGYEDFARRGEDHLP--TFRAQDYTWENHGFSLVNRLYSDIGHL 450
gi|47087251|ref|NP_998684.1|I-----SELEALMERMKRLLEBEREDDASEEEMSTRFEKEKESLFFVSGAG-----FDEVVVPPSPVARFVDDPSFGYODFARRGEDNPP--TFKAQDYSWEDHGFSLVNRLYSDIGHL 450
gi|115533566|ref|NP_490664.2|I-----ELKKLEKQTRPPAKMCAMTTETTESLISAPAAIYSSNRKNYSPVLLLANIDENG-----EDIMEKEPPCNVPTVYSHRFTFGYIDFRKRPEKDIP--PFRVEEFGWD--HVNTNMEVTDTLTR 450
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450

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gi|161077446|ref|NP_001097437.1|LDAKFRAAYNLTVCYMGG-----IKNVDTSKFRRAIWNVYIQCIYGRHDDYDYGEVNGQLLVRPLKMFIKTACCFPERIITKDYDSVLVELQDSEKVVHNLMIEMEARNOAELLYALREIMRVM 596
gi|158286141|ref|XP_001688028.1|LDDKFRAAYNLTVCYTIAG-----RTNVDTSKFRRAIWNVYIQCIYGRHDDYDYGEVNGQLLDRSLKMFIKTACCFPERIITKDYDSVLVELQDSEKVVHNLMIEMEARNOAELLYALREVIMRVM 596
gi|31377591|ref|NP_653266.2|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|57102414|ref|XP_542236.1|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|37674247|ref|NP_084537.2|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|62653234|ref|XP_235825.3|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|194673175|ref|XP_594021.4|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|118085170|ref|XP_425647.2|LDEKFRMVYNTLYNTMAA-----HEDVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|47087251|ref|NP_998684.1|LDDKFRITACDLTYVNMAS-----HEGVDITLRRALFNVYHCFMGIYRDDYDYGEVNGQLLERSLKVYIKVTVTCYPERTTKRMYDSYWRQFKHSEKVVHNLMLMEARMOAELLYALRAITRHLL 596
gi|115533566|ref|NP_490664.2|LDRMPDHIKRTLIGMPPGCSHSAAGDGEPPAAVYVQNEIDTAFAFRKAIWNVYQGLYGVVDDYDYSKIINRVLKGTGTFIKLAAACYPKHLIT--EFTRALPGFKDSEKIVVMVMAMARFQASMPHYTRAVCNMCLSEKKGWRKPLD 596
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....

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