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                                                                                                                                                                       
gi|27894293|ref|NP_006709.2|      MATFPCQLCGKTFLTLEKFTIHNYSHSRERPYKCVQPDCGKAFVSRYKLMRHMATHSPQKSHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLKAHAEEKPPSG   150
gi|114609618|ref|XP_001172618.1|  MATFPCQLCGKTFLTLEKFTIHNYSHSRERPYKCVQPDCGKAFVSRYKLMRHMATHSPQKSHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLKAHAEEKPPSG   150
gi|57032122|ref|XP_541135.1|      MATYPCQLCGKTFLTLEKFTIHNYSHSRERPYKCLQPDCGKAFISRYKLMRHMATHSPQKSHQCAHCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYNTMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLKAHAEEKPPSG   150
gi|157074094|ref|NP_001096759.1|  ------------------------------------------------MATHSPQKSHRCAYCEKTFNRKDHLKNHLQTHDPNKMAFGCEECGKKYHTMLGYKRHLALHAASSGDLTCGVCALELGSTEVLLDHLKAHAEEKPSTG    98
gi|6981166|ref|NP_036892.1|       MAPFRCQKCGKSFLTLEKFTIHNYSHTRERPFKCSKTECGKAFVSKYKLMRHMATHSPQKTHQCTHCEKTFNRKDHLKNHLQTHDPNKMIYACEDCGKKYHTMLGYKRHMALHSASSGDLTCGVCTLELGSTEVLLDHLKSHAEEKAHHA   150
gi|118088471|ref|XP_419703.2|     ------------------------------------------------------------------------------------------MAFKCEECGKNYNTKLGYKRHLALHSAASGDLTCRVCAQEFGGTEILLEHLKSHAG-KPTGN    61
                                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
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gi|27894293|ref|NP_006709.2|      TKEKKHQCDHCERCFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTHSQELMKESLQTGDLLSTFHTISPSFQLKAAA--LPPFPLGASAQNGLASSLPAEVHSLTLSPPEQAAQ------PMQPLP-----ESLASLHP   287
gi|114609618|ref|XP_001172618.1|  TKEKKHQCDHCERCFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTHSQELMKESLQTGDLLSTFHTISPSFQLKAAA--LPPFPLGASAQNGLASSLPAEVHSLTLSPPEQVAQ------PMQPLP-----ESLASLHP   287
gi|57032122|ref|XP_541135.1|      TKEKKHQCDHCERCFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTHSQELMKESLQSGDLLSTFHSISPQFQLKAAP--LSPYPLGAPAQNGLASSLPAEVHSHPHNPSDQTSQ------PVQPLP-----EPLAPLHP   287
gi|157074094|ref|NP_001096759.1|  TKEKKHQCDHCDRCFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTHPQELMKESLQAGDLLNTLHALSPQFQLKAAP--LSPFPIGAPTQNGLAGSLPAEVH--TLNALEQAPQ------PISVLS-----ELLAPLHP   233
gi|6981166|ref|NP_036892.1|       PREKKHQCDHCERCFYTRKDVRRHLVVHTGCKDFLCQFCAQRFGRKDHLTRHTKKTHSQELMQESLQAGEYQGGYQPIAPPFQIKADP--MPPFQLEMPPESGLDGGLPPEIHGLVLASPEEVPQPMLSMPPMQPMP-----EQPFTLHP   293
gi|118088471|ref|XP_419703.2|     TKEKKHKCDHCERHFYTRKDVRRHMVVHTGCKDFLCQFCAQRFGRKDHLTRHTRKTHPQELLKSRLQNGDSVGLLDQLFP-FRLKEDASILSPFPERVSGQNGILNNSEPKEYNCSHLHPQPSLQTALPIEPSPLLQRMGCADSLAAVPP   210
                                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
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                                    . : *.     .:**.  .**::.  : .:*:*.* **:    *:*::** * :*  *:.    . .  . .*  : **: . *  .  :*  :::: ::.*****    *.    .  :..*. *.  **:  *.**
gi|27894293|ref|NP_006709.2|      SVSPGSPPPP---LPNHKYNTTSTSYSP--LASLPLKADTKGFCNISLFEDLPLQEPQSPQKLN--PGFDLAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNTFGNSTLALGPGESLPHRLSCLGQQQ--------   422
gi|114609618|ref|XP_001172618.1|  SVSPGSPPPP---LPNHKYNTTSTSYSP--LASLPLKADTKGFCNISLFEDLPLQEPESPQKLN--PGFDLAKGNAGKVNLPKELPADAVNLTIPASLDLSPLLGFWQLPPPATQNTFGNSTLALGPGESLPHRLSCLGQQQ--------   422
gi|57032122|ref|XP_541135.1|      VTSPSSPPPP---LQNHKYNTSSTSYSP--LASLPLKTDTKGFCNINLLEDLPLQEPQSPHKLT--PGFDLAKGSAGKVNLPKELPADAVNLTIPASLDISPLLGFWQLPPPATQNAFGNSTLTLGPGESLPHRLGCLGQQQ--------   422
gi|157074094|ref|NP_001096759.1|  MATPSSPPAP---LQNHKYSAGSTSYAP--LAGLPLKTDTKGFCSANLLEDLPLQEPQSPHKLN--AGFDLAKGGAGKVNLPKELAADAVN-ILPASLDLSPLLGFWQLPP-ATQSAFGSSGLALGAGESLPHRLGCLGQQP--------   366
gi|6981166|ref|NP_036892.1|       GVVPSSPPPII--LQEHKYSPVPTSFAP--FVSMPMKADLKGFCNMGLFEEFPLQECQSPVKFS--QCFEMAKEGFGKVTLPKELLVDAVNIAIPGSLEISSLLGFWQLPPPPPQNGFMNGTIPVGAGEPLPHRITCLAQQQPPPLLPPP   437
gi|118088471|ref|XP_419703.2|     TPCSTAIPANLNLHQSNKYDLSSTSFAAGSLKNLPIKVDVKGYN-VHLLEDLPLPEPQSLHKISLEEASSGPVGDTNKYPVHKEIETAAETTSMPF-MDLTHVMSFWQLPQSDNQSTTGDITMAFGPEEPS-HRLNGLSQQQ--------   349
                                  .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
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gi|27894293|ref|NP_006709.2|      ----------------------------------------------------------------------------------------------------------------------------------QEPPLAMGTVSLGQLPLPPIPHVFSAGTGSAILPHFHHAFR   463
gi|114609618|ref|XP_001172618.1|  ----------------------------------------------------------------------------------------------------------------------------------QEPPLAMGTVSLGQLPLPPIPHVFSAGTGSAILPHFHHAFR   463
gi|57032122|ref|XP_541135.1|      ----------------------------------------------------------------------------------------------------------------------------------QDPSLAMSTMSLGQLPLPPIPHVFPAGTGSAILPHFHHAFR   463
gi|157074094|ref|NP_001096759.1|  ----------------------------------------------------------------------------------------------------------------------------------QDPSLAMSTMSLGQLPLPPIPHVFPAGTGSAILPHFHHAFR   407
gi|6981166|ref|NP_036892.1|       PPLPLPEPLPQPQLPPQFQLQLQPQPQMQPQMQLQPLQLQLPQLLPQLQPEPEPEPEPEEEEEEEEEIEEEEEIEEEEEAEPEAEEEEEAEDEEEAEEEEEPQPEEAQIAMSAVNMGQPPLPPTPHVFTAGTNTAILPHFHHAFR   583
gi|118088471|ref|XP_419703.2|     ----------------------------------------------------------------------------------------------------------------------------------GLQLATGGMAINQ--LHHLPRSFPSTTNSVTLPHFHHAFK   387
                                  .......460.......470.......480.......490.......500.......510.......520.......530.......540.......550.......560.......570.......580.......590......
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