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                  **** ******* * :.    ::   *   :****:::*:**:*:************ *:*****************:.*::*.** :*****:  ** *:*.*.::: **:****. .*::*** :  ******:** **    .
gi|24528550|ref|NP_076283.2|      MDGFCDQQVPFMVPGKSR---SEDCRGRPLIDRKRKFVDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGAKYGEKCLYNYCAYDRKPPSGFKPLTPPATPLSPTHQN   147
gi|109493467|ref|XP_221387.4|     MDGFCDQQVPFMVPGKSR---SEDCRGRPVIDRKRKFVDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGAKYGEKCLYNYCAYDRKPPSGFKPLTPPATPLSPTHQN   147
gi|4758316|ref|NP_004445.1|       MDGFYDQQVPFMVPGKSR---SEECRGRPVIDRKRKFLDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGANYGEKCLYNYCAYDRKPPSGFKPLTPPTTPLSPTHQN   147
gi|114590883|ref|XP_001152492.1|  MDGFYDQQVPFMVPGKSR---SEECRGRPVIDRKRKFLDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGANYGEKCLYNYCAYDRKPPSGFKPLTPPTTPLSPTHQN   147
gi|74003425|ref|XP_849877.1|      MDGFYDQQVPFMVPGKSR---SEECRGRPVIDRKRKFLDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGANYGEKCLYSYCAYDRKPPSGFKPLTPPTTPLSPTHQS   147
gi|76607601|ref|XP_614853.2|      MDGFYDQQVPFMVPGKSR---SEESRGRPVIDRKRKFLDTDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPTKIKRELHSPSSELSSCSHEQALGANYGEKCLYNYCAYDRKPPSGFKPLTPPTTPLSPTHQN   147
gi|118094954|ref|XP_422651.2|     MDGFYDQQVPFMGPGKSC---AEEGRGRLGSERKRKFLETDLAHDSEELFQDLSQLQEAWLAEAQVPDDEQFVPDFQSDNLVLHAPPPAKIKRELHSPSSELSACSHEQALCASYGDKCLYNCCAYDRKPPAGFKPLTPPATPVSPAQPG   147
gi|187608042|ref|NP_001119933.1|  MDGFYDQQVPFMVPPNQKSLQVEEPYNRPVNDRKRKLVETELAQDTEELFQDLSQLQEIWIAEAQVPDDEQFVPDFQSESLMFHGPPLAKIKRELS-PSKELSPCSQDRSP-MPYGEKCLYSYSAYERKPSTGFKPLTPPSTPVSPCVPS   148
gi|292614725|ref|XP_002662359.1|  MDGFYDQQVPFMVPPNKS--HMQEPSCRTFNDRKRKFVDTELAQDTEELFQDLSQLQEIWIAEAQVPDDEQFVPDFQSDNLMFHGPPQTKIKREMS-PSREFSPCGQEQRL-SPYGEKCLYNYSAFDRKPFTFNKPLTPPSTPASPFGSS   146
gi|18858637|ref|NP_571280.1|      MDGFYDQQVPFMVPPNKS--HMQEPSCRTFNDRKRKFVDTELAQDTEELFQDLSQLQEIWIAEAQVPDDEQFVPDFQSDNLMFHGPPQTKIKREMS-PSREFSPCGQEQRL-SPYGEKCLYNYSAFDRKPFTFNKPLTPPSTPASPFGSS   146
                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
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                  .          :                                .          .    *:   * *   :* .                 *    *  : : ..      *   :***:*  ..
gi|24528550|ref|NP_076283.2|      SLFPPPQATLPT-SGLTPGAGPVQGVGPAPTPHSLPEP--GSQQQTFAVP-RPPHQPLQMPK-MMPESQYPSEQRFQRQLSEPSHPFPPQSG------------VPGDSRPSYHRQMSEPIVPAAPPPLQGFKQEYHDPLY-EHGVPGM   278
gi|109493467|ref|XP_221387.4|     SLFPPPQATLPT-SALAPGAGPVQGVGPAPTPHSLPEP--GSQQQTFAVP-RPPHQPLQMPK-MMPESQYPSEQRFQRQLSEPCRPFPPQSG------------VPGDTRPSYQRQMSEPVVPAAPPPLQGFKQEYHDPLY-EHGVPGM   278
gi|4758316|ref|NP_004445.1|       PLFPPPQATLPT-SGHAPAAGPVQGVGPAPAPHSLPEP--GPQQQTFAVP-RPPHQPLQMPK-MMPENQYPSEQRFQRQLSEPCHPFPPQPG------------VPGDNRPSYHRQMSEPIVPAAPPPPQGFKQEYHDPLY-EHGVPGM   278
gi|114590883|ref|XP_001152492.1|  PLFPPPQATLPT-SAHAPAAGPVQGVGPAPAPHSLPEP--GPQQQTFAVP-RPPHQPLQMPK-MMPENQYPSEQRFQRQLSEPCHPFPPQPG------------VPGDSRPSYHRQMSEPIVPAAPPPPQGFKQEYHDPLY-EHGVPGM   278
gi|74003425|ref|XP_849877.1|      SLFPPPQPSLPT-PAHAPAAGPVPGVGPAPAPHSLPEP--GPQQQTFAVP-RPPHQPLQMPK-MMPENQYPSEQRFQRQLSEPCHPFPPQSG------------VPGDNRPNYHRQMSEPIVPAAPPPPQGFKQEYHDPLY-EHGVPGM   278
gi|76607601|ref|XP_614853.2|      SLFPPPQATLPTSAAHAPAAGPVPGVGPTPTPHSLPEP--GPQQQTFAVP-RPPHQPLQMPK-MMPENQYPSEQRFQRQLSEPCHPFPPQSG------------VPGDNRPNYHRQMSEPIVPAAPPPPQGFKQEYHDPLY-EHGVPGM   279
gi|118094954|ref|XP_422651.2|     SSLPPPPAPGVQAAAHGGPAAPLR--STAPAPHLLQE----QRQQTFAVP-RPPHPPVHMPK-MMSENQYPTEHRFQRQMSEPCHPFPPQPG------------VPGDSRPVYHRQLSEPVGPTAPHPAQGFKQEYHDPLY-EHAGPSL   275
gi|187608042|ref|NP_001119933.1|  NALATRPLHEQTPPPVSNTALGQRLLHGQPT---MTKS--TPNQTCVPHHSQSPPFVVPCPP-LNRETHFSNEPRFQRQLSEPCLPFPPSDAQGRPSFMPQVACTSPRDGRPPYHRQMSEPLVPVPP---QGFKQELLDPRYVEQGVPNM   289
gi|292614725|ref|XP_002662359.1|  STATHPVQKR-AMPPAQTQTQGAPLLPGPNHSSTSPHQRAQTPLHSQSPPFAVPCTPVNHP-----DASYSTDHRFHRQLSEPCLPFPQSDGRCQTPYPPQTRGHFPRHSRPPYQRQMSEPLVPMPP---QGFKKEMVDPRYNEQGVQN-   286
gi|18858637|ref|NP_571280.1|      STATHPVQKKSDAISPNTDTRSTAFTRTKSQFHITPSESTDSTPQSK-PTVCCALHTCQSPRCLLQHRPQVPSAAFRALSSIPTVRWPLSN----TLSPHRTVAIFPGIAGPLINARCQSRWCQCLP---RGFKKEMVGSSVTMSRVCKT   288
                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
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                   *  .    *   :  .  *.    .:  ..      .            :    .     **:****:*****:***  ::*:************************.*.***:*****:************************ ******
gi|24528550|ref|NP_076283.2|      PGPPAH-GFQSPMGIKQEPRDYCADSEVPNCQSSYMRGG-YFSSSHEGFPYEKDPRLYFDDTCVVPERLEGKVKQEPTMYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|109493467|ref|XP_221387.4|     PGPPAH-GFQSPMGIKQEPRDYCADSEVPNCQSPYMRGR-YFSSNHEGFTYEKDPRLYFDDTCVVPERLEGKVKQEPTMYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|4758316|ref|NP_004445.1|       PGPPAH-GFQSPMGIKQEPRDYCVDSEVPNCQSSYMRGG-YFSSSHEGFSYEKDPRLYFDDTCVVPERLEGKVKQEPTMYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|114590883|ref|XP_001152492.1|  PGPPAH-GFQSPMGIKQEPRDYCVDSEVPNCQSSYMRGG-YFSSSHEGFSYEKDPRLYFDDTCVVPERLEGKVKQEPTLYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|74003425|ref|XP_849877.1|      PGPPTH-GFQSPMGIKQEPRDYCVDSEVPNCQSSYIRGG-YFSSNHEGFSYEKDPRLYFDDTCVVPERLEGKVKQEPTMYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|76607601|ref|XP_614853.2|      PGPPAH-GFQSPMGIKQEPRDYCVDSEVPNCQS-YMRGG-YFSGSHEGFSYEKDPRLYFDDTCVVPERLEGKVKQEPTMYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   426
gi|118094954|ref|XP_422651.2|     PGPPGH-GFQSPMGIKQEPRDYCIDSEVPNCQSSYVRGG-LFPSSHDGFSYEKDTRLYFDDTCVVPERLEGKVKQEPTLYREGPPYQRRGSLQLWQFLVTLLDDPANAHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   423
gi|187608042|ref|NP_001119933.1|  -GPSQA-AFH-PMAIKQEPRDFCFDSEVPKCQSSFGRAA-SFYQNHENFSFDREQQLYFDDTCVVPERLEGKVKQEPSVYREGPPYQRRGSLQLWQFLVTLLDDPSNGHFIAWTGRGMEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   435
gi|292614725|ref|XP_002662359.1|  MGPPRAPLFH-QLSIKQEPRDFGFDSEVQNCHSSFGKSSNFYGGNGEGFGYDGEAHLYYDDACVVPDRLEGKLKQEGGVFRDGPPYQRRGSLQLWQFLVTLLDDPSNGHFITWTGRGLEFKLIEPEEVARRWGIQKNRPAMNYDKLSRSL   435
gi|18858637|ref|NP_571280.1|      WGLTRAPLFPPTLNQTGGPEISALTQKYRTAIHLLANQLISMAAMVRVLGMTEKPISIIDDACVVPDRLEGKLKQEGGVFRDGPPYQRRGSLQLWQFLVTLLDDPSNGHFITWTGRGLEFKLIEPEEVARRWGIQKNRPAMNYAKLSRSL   438
                  .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
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                  **********  ***************:******:*****. ***:.:
gi|24528550|ref|NP_076283.2|      RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESE-CPLNEEDTLPLTHFEDN--PAYLLD-MDRCSS-LPYTEGFAY   510
gi|109493467|ref|XP_221387.4|     RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESD-CPLNEEDTLPLTHFEDS--PAYLLD-MDRCSG-LPYAEGFAY   510
gi|4758316|ref|NP_004445.1|       RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESE-CHLSEEDTLPLTHFEDS--PAYLLD-MDRCSS-LPYAEGFAY   510
gi|114590883|ref|XP_001152492.1|  RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESE-CHLSEEDTLPLTHFEDS--PAYLLD-MDRCSS-LPYAEGFAY   510
gi|74003425|ref|XP_849877.1|      RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESE-CHLTEEDTLPLTHFEDN--PAYLLD-LDRCGS-LPYAEGFAY   510
gi|76607601|ref|XP_614853.2|      RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPFLKAESE-CHLSEEDTLPLTHFEDN--PAYLLD-VDRCGS-LPYAEGFAY   510
gi|118094954|ref|XP_422651.2|     RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAYPDNQRPFLKAEPD-CHVSEEDTLPLTHFEDS--PAYLLE-VEHCGS-LPYAEGFAY   507
gi|187608042|ref|NP_001119933.1|  RYYYEKGIMQKVKVAGERYVYKFVCDPEALFSMAFPDNQRPNLKADPDGLPTVDDDTLPLAHYDDG--SSYLVDGGEQCVSGMPFPDGYVY   524
gi|292614725|ref|XP_002662359.1|  RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRPSLKAEPDSLQVPEDDTVPLSHFDEANRAPYPADARDQCLVVPSFPESYTF   524
gi|18858637|ref|NP_571280.1|      RYYYEKGIMQ--KVAGERYVYKFVCDPDALFSMAFPDNQRASLKAEPDSLQVP----------------------------------   489
                  .......460.......470.......480.......490.......500.......510.......520.......530.......540.
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