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                                                  .  :: *   **.  *: **:  *  :       *:: *  ::*:**.**:*: *.* *:    . : ..      *. *  ::**.  ::  ****: : .*** *** * ****:.***.
gi|6753650|ref|NP_034189.1|      -MK------EDQVVQEESGFQDD--EESLFQDIDLLQKHGINMADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVEKIKEAANKLIEPG-FLTAFQYSERRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|109480994|ref|XP_343291.3|    -MK------EDQVVQEESGFQDE--EESLFQDIDLLQKHGINMADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVEKIKEAANKLIEPG-FLTAFQYSERRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|23238219|ref|NP_008999.2|     -MK------EDQVVAEEPGFQDE--EESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVDKIKEAANKLIEPG-FLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|114686387|ref|XP_515130.2|    -MK------EDQVVVEEPGFQDE--EESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVDKIKEAANKLIEPG-FLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|73969089|ref|XP_849984.1|     -MK------EDQVVLEEPGFQDE--EESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVDKIKEAANKLIEPG-FLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|194667509|ref|XP_001789606.1| -MK------EDQVVLEEPGFQDE--DESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVDKIKEAANKLIEPG-FLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   140
gi|118082782|ref|XP_425477.2|    -MKAM----EDQVVQEESGYHDD--EESFFQDIDLLQKHGINVADIKKLKSVGICTIKGVQMTTRRALCNVKGLSEVKVDKIKEAANKLIEPG-FLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLC   142
gi|66472867|ref|NP_001018618.1|  -MKVL----EEQTLEEESGYQDD--EESFFQDIELLQKHGINVADIKKLKSVGICTVKGIQMTTRRALCNIKGLSEAKVDKIKEAAGKLLTCG-FQTASEYCIKRKQVFHITTGSLEFDKLLGGGVESMAITEAFGEFRTGKTQLSHTLC   142
gi|115487302|ref|NP_001066138.1| MAPSKQYSEGGQLQLMDAERIEE--EEECFESIDKLISQGINSGDVKKLQDAGIYTCNGLMMHTKKSLTGIKGLSEAKVDKICEAAEKLLSQG-FITGSDLLIKRKSVVRITTGSQALDKLLGGGIETLCITEAFGEFRSGKTQLAHTLC   147
gi|115484153|ref|NP_001065738.1| MAPSKQYDEGGQLQLMDAERIEE--EEECFESIDKLISQGINSGDVKKLQDAGIYTCNGLMMHTKKSLTGIKGLSEAKVDKICEAAEKLLSQG-FMTGSDLLIKRKSVVRITTGSQALDELLGGGIETLCITEAFGEFRSGKTQLAHTLC   147
gi|30686826|ref|NP_188928.2|     MMASLKAEETSQMQLVEREENDE--DEDLFEMIDKLIAQGINAGDVKKLQEAGIHTCNGLMMHTKKNLTGIKGLSEAKVDKICEAAEKIVNFG-YMTGSDALIKRKSVVKITTGCQALDDLLGGGIETSAITEAFGEFRSGKTQLAHTLC   147
gi|124512446|ref|XP_001349356.1| -MATLPASKSASKVALTSEVEDEGIKEHTFQEIEKLQDLGINAADINKLKGSGYCTILSLIQTTKKELCNVKGISEAKVDKILEVASKIENCSSFITANELVQKRSKVLKITTGSTVFDQTLGGGIESMCITELFGENRCGKTQVCHTLA   149
gi|6321027|ref|NP_011106.1|      ------------MSVTGTEIDSD--TAKNILSVDELQNYGINASDLQKLKSGGIYTVNTVLSTTRRMLCKIKGLSEVKVEKIKEAAGKIIQVG-FIPATVQLDIRQRVYSLSTGSKQLDSILGGGIMTMSITEVFGEFRCGKTQMSHTLC   135
gi|45201197|ref|NP_986767.1|     ------------MALTETEAET---IHNSIISVDELQNYGINASDLQKLKASGIFSVNTVLSTTRRNLLKIKGFSEVKVEKVKEAAGKIIQVG-FIPATVQLDIRKRVFAISTGSKQLDSILGGGVMTMSITEVFGEFRCGKTQMSHTLC   134
gi|50311197|ref|XP_455622.1|     ------------MSTETETKT------NVVNIDELQNFGINASDITKLKTAGIFTVNTCLSTTRRNLCKVRGLSEVKVEKIKEAANKIITIG-FIPATLQWQIRQAVMSISTGSKQFDSVLGGGIMTMSITEVFGEFRCGKTQLSHTLC   130
gi|19115078|ref|NP_594166.1|     ------------MEEFAEGNDD--EQMIFSDIEDLTAHGIGMTDIIKLKQAGVCTVQGVHMSTKRFLLKIKGFSEAKVDKLKEAASKMCPAN-FSTAMEISQNRKKVWSISTGSEALNGILGGGIQSMSITEVFGEFRCGKTQMSHTLC   134
                                 1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
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gi|6753650|ref|NP_034189.1|      VTAQLPGTGGYSGGKI-----IFIDTENTFRPDRLRDIADRFNVDHEAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|109480994|ref|XP_343291.3|    VTAQLPGADGYSGGKI-----IFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIVDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|23238219|ref|NP_008999.2|     VTAQLPGAGGYPGGKI-----IFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|114686387|ref|XP_515130.2|    VTAQLPGAGGYPGGKI-----IFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|73969089|ref|XP_849984.1|     VTAQLPGAGGYSGGKI-----IFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|194667509|ref|XP_001789606.1| VTAQLPGAGGYSGGKI-----IFIDTENTFRPDRLRDIADRFNVDHNAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   284
gi|118082782|ref|XP_425477.2|    VTAQLPGPKGYTGGKI-----IFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADP-   286
gi|66472867|ref|NP_001018618.1|  VTAQLPGEYGYTGGKV-----IFIDTENTFRPERLKDIADRFNVDHEAVLDNVLYARAYTSEHQMELLDFVAAKFHEEGGVFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGAGMTFQADP-   286
gi|115487302|ref|NP_001066138.1| VSAQLPIHMHGGNGKV-----AYIDTEGTFRPERIVPIAERFGMDANAVLDNIIYARAYTYEHQYNLLLGLAAKMAEEP--FRLLIVDSVIALFRVDFSGRGELAERQQKLAQMLSRLTKIAEEFNVAVYITNQVIADPGGGM-FITDL-   288
gi|115484153|ref|NP_001065738.1| VSTQLPIHMHGGNGKV-----AYIDTEGTFRPERIVPIAERFGMDANAVLDNIIYARAYTYEHQYNLLLGLAAKMAEEP--FRLLIVDSVIALFRVDFSGRGELAERQQKLAQMLSRLTKIAEEFNVAVYITNQVIADPGGGM-FITDP-   288
gi|30686826|ref|NP_188928.2|     VTTQLPTNMKGGNGKV-----AYIDTEGTFRPDRIVPIAERFGMDPGAVLDNIIYARAYTYEHQYNLLLGLAAKMSEEP--FRILIVDSIIALFRVDFTGRGELADRQQKLAQMLSRLIKIAEEFNVAVYMTNQVIADPGGGM-FISDP-   288
gi|124512446|ref|XP_001349356.1| VTAQLPKSLNGGNGKVPHKFFCYIDTEGTFRPEKVCKIAERYGLDGEAVLDNILYARAFTHEHLYQLLAISAAKMCEEP--FALLVVDSIISLFRVDFSGRGELSERQQKLNKTMSILSKLSEQFNIAILITNQVMSDPGATMTFIANP-   296
gi|6321027|ref|NP_011106.1|      VTTQLPREMGGGEGKV-----AYIDTEGTFRPERIKQIAEGYELDPESCLANVSYARALNSEHQMELVEQLGEELS-SGD-YRLIVVDSIMANFRVDYCGRGELSERQQKLNQHLFKLNRLAEEFNVAVFLTNQVQSDPGASALFASADG   278
gi|45201197|ref|NP_986767.1|     VTAQLPREMGGGEGKV-----AYIDTEGTFRPERIKQIAARYDLDPDACLENVSYARALNSEHQMELVEQLGQELA-SGD-YRLLIVDSIMANFRVDYCGRGELNERQQKLNQHLSRLNRVAEEYNVAVFMTNQVQSDPGASALFASADG   277
gi|50311197|ref|XP_455622.1|     VTAQLPKELNGPEGKV-----AYIDTEGTFRPERIKQIAQGYDLDPEVCLENISYARALNSEHQMELLEQLGEELS-SGE-YRLLIVDSIMANFRVDYSGRGELNERQQKLNQHLSRLNRIAEENNIAVFMTNQVQSDPGASALFASADG   273
gi|19115078|ref|NP_594166.1|     VTAQLPRDMGGAEGKV-----AFIDTEGTFRPDRIKAIAERFGVDADQAMENIIVSRAYNSEQQMEYITKLGTIFAEDGQ-YRLLIVDSIMALFRVDYSGRGELSERQQKLNIMLARLNHISEEFNVAVFVTNQVQADPGAAMMFASND-   277
                                 .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
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gi|6753650|ref|NP_034189.1|      KKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE   340
gi|109480994|ref|XP_343291.3|    KKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITTGGIGDAKE   340
gi|23238219|ref|NP_008999.2|     KKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE   340
gi|114686387|ref|XP_515130.2|    KKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE   340
gi|73969089|ref|XP_849984.1|     KKPIGGHILAHASTTRVSLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE   340
gi|194667509|ref|XP_001789606.1| KKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE   340
gi|118082782|ref|XP_425477.2|    KKPVGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITPGGIGDAKK   342
gi|66472867|ref|NP_001018618.1|  KKPIGGHILAHASTTRISLRKGRAELRIAKIFDSPHMPENEATFAITAGGITDAKD   342
gi|115487302|ref|NP_001066138.1| KKPAGGHVLAHAATIRLMLRKGKGEQRVCKIFDAPNLPEGEAVFQVTSGGIMDAKD   344
gi|115484153|ref|NP_001065738.1| KKPAGGHVLAHAATIRLMLRKGKGEQRVCKIFDAPNLPEGEAVFQVTSGGIMDAKD   344
gi|30686826|ref|NP_188928.2|     KKPAGGHVLAHAATIRLLFRKGKGDTRVCKVYDAPNLAEAEASFQITQGGIADAKD   344
gi|124512446|ref|XP_001349356.1| MKPVGGHVIGHASTIRLSLRKGKGDQRVCKVYDAPNLPEVECIFQLSDKGVIDATD   352
gi|6321027|ref|NP_011106.1|      RKPIGGHVLAHASATRILLRKGRGDERVAKLQDSPDMPEKECVYVIGEKGITDSSD   334
gi|45201197|ref|NP_986767.1|     RKPVGGHVLAHASATRILLRKGRGEERVAKLQDSPDMPEKECVYVIGEKGITDADD   333
gi|50311197|ref|XP_455622.1|     RKPVGGHVLAHASATRILLRKGRGDERVAKLQDSPDMPEKECVYVIGERGIMDSDE   329
gi|19115078|ref|NP_594166.1|     RKPVGGHVMAHASATRLLLRKGRGEERVAKLNDSPDMPEAECSYVITPGGIADVS-   332
                                 .......310.......320.......330.......340.......350......
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