```
                                 *:  :*  :* *.*...*:*******:***** :****************:***: ****:**.  .*:**************..***:***:**::*******:****  .. *.:                          .*  . .
gi|6678317|ref|NP_033393.1|      MHYCVLSTFLLLHLVPVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPDEVPPEVISIYNSTRDLLQEKASRRAAACERERSEQEYYAKEVYKIDMPSHLPSE---------------------------NAIPPTF   150
gi|13592109|ref|NP_112393.1|     MHYCVLRTFLLLHLVPVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPDEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPSHFPSETVCPVVTTSSGSVGSFCSIQSQVLCGYLDAIPPTF   150
gi|4507463|ref|NP_003229.1|      MHYCVLSAFLILHLVTVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPEEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPPFFPSE---------------------------NAIPPTF   150
gi|114572678|ref|XP_514203.2|    MHYCVLSAFLILHLVTVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPEEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPPFFPSE---------------------------NAIPPTF   150
gi|74006028|ref|XP_858677.1|     MHYCVLSAFLILHLVTAALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPEEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPPFFPSE---------------------------NAIPPTF   150
gi|194674005|ref|XP_001788784.1| MHYCVLSAFLLLHLVTVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPEEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPSFLPSE---------------------------NAIPPTF   150
gi|71895575|ref|NP_001026216.1|  MHCYLLSVFLTLDLAAVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPDEYPEPEEVPPEVISIYNSTRDLLQEKANHRAATCERERSDEEYYAKEVYKIDMQPFYPEN---------------------------AIPPSY   150
gi|35902884|ref|NP_919366.1|     MNLYVLSLLLLLDLAAVAVSLSTCSTVDMDQFKKKRIEAIRGQILSKLKLSSPPEIYPEPEEVSRGIIAIYNSTRDLLQEKANERAATCERQRSEEEYYAKEVHKIDMQPFYPSE---------------------------NVILSQH   150
                                 1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
```

```
                                 *  *** : ****:***********::*:*****.**** ********:*  *:*:** ****:****:**:**********:** *** *:*** *************:************:* *:******   .  .** * :*  ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gi|6678317|ref|NP_033393.1|      YRPYFRIVRFDVSTMEKNASNLVKAEFRVFRLQNPKARVAEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVQEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYASGDQKTIKSTRK   300
gi|13592109|ref|NP_112393.1|     YRPYFRIVRFDVSTMEKNASNLVKAEFRVFRLQNPKARVAEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFIPSNNYIIPNKSQELEARFAGIDGTSTYASGDQKTIKSTRK   300
gi|4507463|ref|NP_003229.1|      YRPYFRIVRFDVSAMEKNASNLVKAEFRVFRLQNPKARVPEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYTSGDQKTIKSTRK   300
gi|114572678|ref|XP_514203.2|    YRPYFRIVRFDVSAMEKNASNLVKAEFRVFRLQNPKARVPEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYTSGDQKTIKSTRK   300
gi|74006028|ref|XP_858677.1|     YRPYFRIVRFDVSAMEKNASNLVKAEFRVFRLQNPKARVPEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYTSGDQKTIKSTRK   300
gi|194674005|ref|XP_001788784.1| YRPYFRIVRFDVSSMEKNASNLVKAEFRVFRLQNPKARVPEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYTSGDQKTIKSTRK   300
gi|71895575|ref|NP_001026216.1|  YSLYFRIVRFDVSAMEKNASNLVKAEFRVFRLQNSKARVSEQRIELYQVLKSKELSSPGQRYIDSKVVKTRAEGEWLSFDVTEAVHEWLHHRDRNLGFKISLHCPCCTFVPSNNYIIPNKSEEPEARFAGID-DYTYSSGDVKALKSNRK   300
gi|35902884|ref|NP_919366.1|     YYPYFRRLMFDVSSMEKNASNLVKAQLRIFRLQNPKARVFEQRIELYQVLGHKDLTSPTQRYINSKVVRTRTEGEWLSFDVTEAVSEWLLHRDRNKGFKISLHCPCCTFVPSNNYIIPNKSEELETRFAGIDDSFVN-GGDLKMFK--KR   300
                                 .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
```

```
                                 : **::****************: .:*:*****:*:* ****** ***.******:****:********:*************:****:..:*.******************************:******************
gi|6678317|ref|NP_033393.1|      KTSGKTPHLLLMLLPSYRLESQQSSRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHTKVLSLYNTINPEASASPCCVSQDLEPLTILYYIGNTPKIEQLSNMIVKSCKCS   442
gi|13592109|ref|NP_112393.1|     KSSGKTPHLLLMLLPSYRLESQQSSRRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHTKVLSLYNTINPEASASPCCVSQDLEPLTILYYIGNTPKIEQLSNMIVKSCKCS   442
gi|4507463|ref|NP_003229.1|      KNSGKTPHLLLMLLPSYRLESQQTNRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
gi|114572678|ref|XP_514203.2|    KNSGKTPHLLLMLLPSYRLESQQTNRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
gi|74006028|ref|XP_858677.1|     KNSGKTPHLLLMLLPSYRLESQQSNRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
gi|194674005|ref|XP_001788784.1| KNSGKSPHLLLMLLPSYRLESQQSNRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
gi|71895575|ref|NP_001026216.1|  KYSGKTPHLLLMLLPSYRLESQQPSRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYHANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
gi|35902884|ref|NP_919366.1|     RHSGQSPHLLLMLLPSYRLESQHKSHRQKRALDTAFCSRNVQDNRCLRSLYIDFKKDLGWRWIHEPKGYNANFCAGACPYLWSADTQHSNILGLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCS   442
                                 .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440..
```