```
gi|13562090|ref|NP_112092.1|      ------------------------------------------------------------------------------------------------------------------------------------------------------
gi|114686240|ref|XP_001143991.1| MSPHIFQSNFRVHFPLRVGFAFSVAEIAYGPKILAQAPSSGAADILGEFSCGVDEIGGGGASSSDGFKKLPGLNSGSHCLRHGQLTQQTLNPEDGISGRPEDVSGYYTDAQLDVGSTQLRTVGSCSVSVRGRSLERGGENSSDGFTKLPG   150
gi|149266686|ref|XP_139463.5|     ---------------------------MKPHTLEKLNPGPKGAVIKEQAKRLDSNGPRAGS---------GILLSFHMLGSPFSSRRKEALEEMLRFQRQKVGGVGEQPFCKLSHSPHQEVYHAHISTQLQHRTSLDGPETPTLDTMD-   112
gi|109480976|ref|XP_235465.4|     ------------------------------------------------------------------------------------------------MAAWGRD-------------------------------------------PAFDTMD-    14
                                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
```



```
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
gi|13562090|ref|NP_112092.1|      ------------------------------------------------------------------------------------------------------------------------------------------------------
gi|114686240|ref|XP_001143991.1| LSSGSDTLRHGQLTPEERTRGPCLGVRVREEEAGTRVKENLPVWTVTGELQGKPLGNPAAGTMNPESSIFIEDYLKYFQDQVSRENLLQLLTDDEAWNGFVAAAELPRDEADELRKALNKLASHMIMKDKNRHDKDQQHRQWFLKEFPRL   300
gi|149266686|ref|XP_139463.5|     ------------------------------------------------------PSDCEDAPGDRTFIEEAAEYLQHTSGREDLRLLLTEDGAWEAFVAEAELSRADADTLRDALHALTANLAVEDQERLQRDLQDMERFMDAFPQV   205
gi|109480976|ref|XP_235465.4|     ------------------------------------------------------PSDGEDSPASRTFIEEATEYLQHTSGRDDLKLLLTEDGAWEAFVAEAELSRADADTLRDALNALTANMAEEDQNRLQHDLQDVERFIDVFPQV   107
                                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
```

```
gi|13562090|ref|NP_112092.1|      KRELEDHIRKLRALAEEVEQVHRGTTIANVVSNSVGTTSGILTLLGLGLAPFTEGISFVLLDTGMGLGAAAAVAGITCSVVELVNKLRARAQARNLDQSGTNVAKVMKEFVGGNTPNVLTLVDNWYQVTQGIGRNIRAIRRARANPQLGA   238
gi|114686240|ref|XP_001143991.1| KRELEDHIRKLRALAEEVEQVHRGTTIANVVSNSVGTTSGILTLLGLGLAPFTEGISFVLLDTGMGLGAAAAVAGITSSVVELVNKLRARAQARNLDQSGTNVAKVMKEFVGGNTPSVLTLVDNWYQVTQGIGRDIRAIRRARANPQLGA   450
gi|149266686|ref|XP_139463.5|     KLELEGHIGKLRTLADKVDKVHRDCTISKLVAGSTSTVSGILTLLGLTLVPVTAGISLVLLATGMGLGAAAAVTSVSSGIVDYTSRSLAKTEASHLVSTGMAKVKMVADAVVHSGPQVLSLSENCCRVLRCIEQSIYAIKLTKANPALAA   355
gi|109480976|ref|XP_235465.4|     KLELERHVRKLRTLADKVDKVHRDCTISKVVAGSTSTVSGVLTLLGLALVPVTAGVSLVLLATGMGLGAAAAVTSVSTGIVDYTSKSSAQTEASHLVSTSMVKVKMAAEAVVYSGPQVFSLSESCCRVLRCIEQSVYAIKLTKANPALAA   257
                                  .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
```

```
gi|13562090|ref|NP_112092.1|      YAPPPHIIGRISAEGGEQVERVVEGPAQAMSRGTMIVGAATGGILLLLDVVSLAYESKHLLEGAKSESAEELKKRAQELEGKLNFLTKIHEMLQPGQDQ--   337
gi|114686240|ref|XP_001143991.1| YAPPPQVIGRISAEGGEQVERVVEGPARAMSRGTMIVGAATGGILLLLDVVSLAYESKHLLEGAKSEPAEELKKRAQELEGKLNFLTKIHEMLQSGQDQ--   549
gi|149266686|ref|XP_139463.5|     S-----AMGSTSAQSGKHVKKAFKGTALAISRRARIMGIATAGVSLVGDVISLVKQSKNLHKGTKAKSAEELRQQARELEEKLEALIQMYEGLQAGSRR--   449
gi|109480976|ref|XP_235465.4|     SVKRLMTVGSISAQSDKHVKKAFKGTALAMSRRTRIMGIATAGVSLIGDVISLVKESKNLYKGAKAKSAEELRQQARELEEKLEVLVQIYDGLQSGSTQSS   358
                                  .......460.......470.......480.......490.......500.......510.......520.......530.......540.......550.
```