```
logo
NTDB id 1119 NGFG RS11465 WP 017147169.1      .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGKWPENNTS...   70
NTDB id 1109 OK783 RS10670 WP 157147416.1     .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGIWPKDNTS...   70
NTDB id 1192 PAKAF RS23870 WP 024947914.1     ........MKAQKGFTLIELMIVVAIIGILAAIAIPQYQNYVARSEGASALASVNPLKTTVEEALSRGWSVKSGTGTEDA   72
NTDB id 1188 NELON RS01755 WP 003772458.1     .......MKAMQKGFTLIELMIVIAIIGILAAIALPAYQDYTVRSKVSEALIAASSPKSALSEAFQTDGITGMTAAAKAF   73
NTDB id 1424 RS RS02795 WP 011000517.1        MKSMRHLNKRVQKGFTLIELMIVVAIVGILAAIAIPAYQDYTVRARVTEGLSLAAQAKALVSENAANAQSDLSV......   74
NTDB id 1002 ACIAD RS15100 WP 004923779.1     ........MNAQKGFTLIELMIVIAIIGILAAIAIPAYTDYTVRARVSEGLTAASSMKTTVSENILNAGALVAGTPS...   69
NTDB id 1147404 CKV79 RS09630 WP 028372720.1  .........MKQRGFTLIELMIVIAILGILISIAVPAYRQHIVRARVIEGLNLASQAKIAVTETAMTNRALPANQEA...   68
NTDB id 1258 GC085 RS09745 WP 014844212.1     .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAA...   68
NTDB id 1274 LPP RS09530 WP 011214168.1       .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAA...   68
consensus                                        !*!!!!!!!!!!*!!*!!!***!*!*!*****!******* **    !****!  *     **  *
```

```
logo
NTDB id 1119 NGFG RS11465 WP 017147169.1      ................AGVASPPTDIKGKYVKEVEV......KNGVVTATMLSSGV...NNEIKGKKLSLWG.........   117
NTDB id 1109 OK783 RS10670 WP 157147416.1     ................AGVASA.STIKGKYVQKVEV......AKGVVTAQMASTGV...NKEIQDKKLSLWA.........   116
NTDB id 1192 PAKAF RS23870 WP 024947914.1     TKKEVPLGVAADA..............NKLGTIALKPDPADGTADITLTFTMGGAG....PKNKGKIITL..........   124
NTDB id 1188 NELON RS01755 WP 003772458.1     NKTAAAGGGAGGAAAAGTQHA.....SKYVKSVKV...TEASPWDITVAISATEANGIPTGLDGNTIRLFP.LVNKAVPA   144
NTDB id 1424 RS RS02795 WP 011000517.1        ..........GSS.........VFTPTKNVANLTIA.GTGTVPGQITVTYTTAA........GGGTLALVPTAAGTALPV   126
NTDB id 1002 ACIAD RS15100 WP 004923779.1     .........TAGSSCVGVQEISASNATTNVATATC...GASSAGQQIIVTMDTTK........AKGANITLTPT.......   122
NTDB id 1147404 CKV79 RS09630 WP 028372720.1  .........AGYT.........SPSPTVNVKSITI...G..DKGVITITYTPEA........GDGTILLVPSM.......   110
NTDB id 1258 GC085 RS09745 WP 014844212.1     .........TGYV.........SPAATPNVQSIAI...G..ANGVITITYTAAA........GGGTIMTPTL.......   110
NTDB id 1274 LPP RS09530 WP 011214168.1       .........TGYV.........SPAATPNVASIAI...G..ANGVITITYTAAA........GGGTIVMTPTL.......   110
consensus                                               *          *   * ** ** *         ********  *         ******* *
```

```
logo
NTDB id 1119 NGFG RS11465 WP 017147169.1      .RRENGSVKWFCGQPVTRADDDTVADA..KDGKEIDTKHLPSTCRDKASDAK   166
NTDB id 1109 OK783 RS10670 WP 157147416.1     .KRQDGSVKWFCGQPVTRTGDNDDTVA..DANNAIDTKHLPSTCRDESSAT.   164
NTDB id 1192 PAKAF RS23870 WP 024947914.1     .TRTAADGLWKCTSD....................QDEQFIPKGCSK......   150
NTDB id 1188 NELON RS01755 WP 003772458.1     .ATSTGAIDWACASAAKETADKRFGTGSGVAVGTLPAKYAPSECK.......   188
NTDB id 1424 RS RS02795 WP 011000517.1        SSAPSGPIMWTCYAQNKAQAASSVAP...SGTMSLAAKYAPAECR.......   168
NTDB id 1002 ACIAD RS15100 WP 004923779.1     ..YASGAVTWKCTTT....................SDKKYVPSECRG......   147
NTDB id 1147404 CKV79 RS09630 WP 028372720.1  ..RQNGELTWTCTEG...................TLPEKYRPSGCR.......   135
NTDB id 1258 GC085 RS09745 WP 014844212.1     ..QANGDVTWTCTGG...................TLLAKYRPASCRP......   136
NTDB id 1274 LPP RS09530 WP 011214168.1       ..QANGDVTWTCTGG...................TLLAKYRPASCRP......   136
consensus                                         * * ! !*                      **  ** !* !*
```

X non conserved

X similar

X $\geq$50% conserved