```
logo

NTDB id 1191 AAC28468.1 484..945( )        ......MLKKVQKGFTLIELMIVIAIIGILAAIALPAYQDYTARAQATEGFKATAGLQTDLGAWRADRGSFPNAAALVA.    73
NTDB id 1424 RS RS02795 WP 011000517.1     MKSMRHLNKRVQKGFTLIELMIVVAIVGILAAIAIPAYQDYTVRARVTEGLSLAAQAKALVSENAANAQSDLSV......    74
NTDB id 1002 ACIAD RS15100 WP 004923779.1  ........MNAQKGFTLIELMIVIAIIGILAAIAIPAYTDYTVRARVSEGLTAASSMKTTVSENILNAGALVAGTPSTAG    72
NTDB id 1274 LPP RS09530 WP 011214168.1    .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAATGY    71
NTDB id 1258 GC085 RS09745 WP 014844212.1  .........MRQKGFTLIELMIVVAIIGILAAIAIPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAATGY    71
NTDB id 1292 VP RS12235 WP 005479693.1     ...MKHSKQKKQQGFTLIELMIVVAIIGVLAAAAIPAYQNYVTRSEVTSGLATVKALITPAELHY.QENGIAAAA.....    71
NTDB id 1038 HON27 RS01510 WP 000993725.1  ........MNAQKGFTLIELMIVVAIIGILAAIAIPQYQNYIAKSQVNSGFSEISSIKTGYENAV.NEGAVPTKLSD...    68
NTDB id 1192 PAKAF RS23870 WP 024947914.1  ........MKAQKGFTLIELMIVVAIIGILAAIAIPQYQNYVARSEGASALASVNPLKTTVEEAL.SRGWSVKSGTGTED    71
NTDB id 1197 PSJM300 03940 AFN76866.1      ......MKAQMQKGFTLIELMIVVAIIGILAAIALPAYQDYTVRSNAAAALAEITPGKIGFEQAI.NEGKTPSLTSTD..    71
NTDB id 1109 OK783 RS10670 WP 157147416.1  .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGIWPKDNTSA..    71
NTDB id 1119 NGFG RS11465 WP 017147169.1   .......MNTLQKGFTLIELMIVIAIVGILAAVALPAYQDYTARAQVSEAILLAEGQKSAVTEYYLNHGKWPENNTSA..    71
NTDB id 150097 ACX61 RS01625 WP 000993711.1 .......MNAQKGFTLIELMIVVAIIGILAAIAIPAYQDYIARSQVSEAMELASGLKGAVAETFSQDATCPTNGTNG..    70
NTDB id 1079 FDQ49 RS11140 WP 022575996.1  ........MNAQKGFTLIELMIVVAIIGILAAIAIPAYQNYIAKSQASEAFTLADGLKTTINTNL.QAGTCFAGGATA..    69
consensus                                            !*!!!!!!!!!!*!!*!*!!!*!*!*!**!* *  *****  *   ** * *   * *  *
```

```
logo

NTDB id 1191 AAC28468.1 484..945( )        ......GNVIFDSANGLDGKYFAPGG.VTVTPDTGAINIAFDAGA......NAGKTMTITPTVIA.......ASGQISTW   133
NTDB id 1424 RS RS02795 WP 011000517.1     ......GSSVF...TPTKN..VANLTIAGTGTVPGQITVTYT.TA......AGGGTLALVPTAAGTALPVSSAPSGPIMW   136
NTDB id 1002 ACIAD RS15100 WP 004923779.1  SSC..VGVQEISASNATTN..VATA..TCGASSAGQIIVTMDTTK......AKGANITLTPT..........YASGAVTW   130
NTDB id 1274 LPP RS09530 WP 011214168.1    V...........SPAATPN..VASI..AIGA..NGVITITY.TAA......AGGGTIVMTPTL.........QANGDVTW   118
NTDB id 1258 GC085 RS09745 WP 014844212.1  V...........SPAATPN..VQSI..AIGA..NGVITITY.TAA......AGGGTIIMTPTL.........QANGDVTW   118
NTDB id 1292 VP RS12235 WP 005479693.1     ...TLAQLGVDVAANDLGAID....SAL....AGGSPTL..TFT.FDADSSIDGGILTFTR............DAATGW   124
NTDB id 1038 HON27 RS01510 WP 000993725.1  .......VGFTAATSSVCATY....SIDAFTETDGAGKI.TCTLK..GNPKIATKIVELTR............STDGAW   121
NTDB id 1192 PAKAF RS23870 WP 024947914.1  ATKKEVPLGVAADANKLGTIA.....LKP.DPADGTADITLTFTMGGAGPKNKGKIITLTRT............AADGLW   133
NTDB id 1197 PSJM300 03940 AFN76866.1      ....EGYIGITDS.TSYCDVD.....LD..TAADGHI...ECTAKGGNAGKFDGKTITLNR............TADGEW   123
NTDB id 1109 OK783 RS10670 WP 157147416.1  ........GVASA.STIKGKYVQKVEV.......AKGVVTAQMASTGVNKEIQDKKLSLWAK..........RQDGSVKW   125
NTDB id 1119 NGFG RS11465 WP 017147169.1   ........GVASPPTDIKGKYVKEVEV.......KNGVVTATMLSSGVNNEIKGKKLSLWGR..........RENGSVKW   126
NTDB id 150097 ACX61 RS01625 WP 000993711.1 ........I..ATATDINGKYVASVTTAGTAAASGGCTITAKMRATGVSKGIQNGELTLTLS.........NADKGSNVW   131
NTDB id 1079 FDQ49 RS11140 WP 022575996.1  ........V..TAADKVSGKYGDAE....IGGTAPNCTITYTFKSSGVSNKLTSTKIVMNVS.........ETGILT...   123
consensus                                             *                *   **              *  **** *             *    *
```

```
   <0

logo

NTDB id 1191 AAC28468.1 484..945( )        TCAPGAAN.............GIETRRLPTSCQ*...........   153
NTDB id 1424 RS RS02795 WP 011000517.1     TCYAQNKAQAAS.SVAPSGTMSLAAKYAPAECR............   168
NTDB id 1002 ACIAD RS15100 WP 004923779.1  KCTTT................S.DKKYVPSECRG...........   147
NTDB id 1274 LPP RS09530 WP 011214168.1    TCTGG................TLLAKYRPASCRP...........   136
NTDB id 1258 GC085 RS09745 WP 014844212.1  TCTGG................TLLAKYRPASCRP...........   136
NTDB id 1292 VP RS12235 WP 005479693.1     SCLPT..................APAIA.VDGCS............   139
NTDB id 1038 HON27 RS01510 WP 000993725.1  TCVSD..................VPTEFLPKGCTAGTPTEGAITSL   149
NTDB id 1192 PAKAF RS23870 WP 024947914.1  KCTSD..................QDEQFIPKGCSK...........   150
NTDB id 1197 PSJM300 03940 AFN76866.1      SCAST..................LDAKYKPGKCS............   139
NTDB id 1109 OK783 RS10670 WP 157147416.1  FCGQPVTRTGDNDDTVADANNAIDTKHLPSTCRDESSAT......   164
NTDB id 1119 NGFG RS11465 WP 017147169.1   FCGQPVTRADDDTVADAKDGKEIDTKHLPSTCRDKASDAK.....   166
NTDB id 150097 ACX61 RS01625 WP 000993711.1 SCTST.............GSNKIEQKYLPKSCTSS...........   153
NTDB id 1079 FDQ49 RS11140 WP 022575996.1  ...KN.............SGTDTPVELLPQSFVAS...........   142
consensus                                  **                   *  ****  *
```

X non conserved
X similar
X $\geq$ 50% conserved