```
logo
NTDB id 613 LCA RS05340 WP 231952379.1        .....MMWQDYWQRYRRFWWVPCLVLLGIIAGGFYWHQ.SQQKQKVTQNEQLL...A..TSASKTKPATKKTHQAATKKK   69
NTDB id 521 SMSK321 RS04960 WP 000443804.1    .....MESIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPHTPVKETNLQAEVVAISKDSSTEKDVKKEEKEEPVEQD   72
NTDB id 493 SM12261 RS04300 WP 000387351.1    .....MEAIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPQTPVKETNLQAEVVAVSKDSVSEKEVKKEEKEEPLEQD   72
NTDB id 153 SP RS04730 WP 000387344.1         .....MEAIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPQTPVKETNLQAEVAAVSKDSSTEKEVKKEEKEEPLEQD   72
NTDB id 263 KZH43 RS04195 WP 000387330.1      .....MEAIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEVNKEEKEEPLEQD   72
NTDB id 222 SPD RS04535 WP 000387330.1        .....MEAIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEVNKEEKEEPLEQD   72
NTDB id 188 SPR RS04295 WP 000387330.1        .....MEAIIEKIK.EYKIIVICTGLGLLVGG..FFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEVNKEEKEEPLEQD   72
NTDB id 306695 DXX91 RS12505 WP 043867297.1  MTKAMMTERM..RR.NLKILGACLAAGAVFIC..IWLFRSEKEEPVKQQSVLG..........QTA.SASVADKKDTADD   64
NTDB id 105 BSU 25590 NP 390437.1             .....MNWLN..QH.KKAIIL..AASAAVFTAIMIFLATGKNKEPVKQAVPTE..........TENTVVKQEANNDESNE   60
consensus                                          !******** ****************  **********!********* *****  ***** ***********

logo
NTDB id 613 LCA RS05340 WP 231952379.1        GGFVDIKGAVVYPGIYPITVSETRLFEVLKNAGGPTDAADTKRLNLAQKLTDQLIIYIPKKGEVVTDQELIQAPQQIATT  149
NTDB id 521 SMSK321 RS04960 WP 000443804.1    LITVDVKGAVKSPGIYDLSVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQH...........  140
NTDB id 493 SM12261 RS04300 WP 000387351.1    LITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAASQQ...........  140
NTDB id 153 SP RS04730 WP 000387344.1         LITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQ...........  140
NTDB id 263 KZH43 RS04195 WP 000387330.1      LITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQ...........  140
NTDB id 222 SPD RS04535 WP 000387330.1        LITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQ...........  140
NTDB id 188 SPR RS04295 WP 000387330.1        LITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQ...........  140
NTDB id 306695 DXX91 RS12505 WP 043867297.1  KIMIDVKGAVRNPGVYEMKAG.DRVTQAIEKAGGLKKKADELNVNLAEQLQDGTIVYIPSEGEEGNHPK...........  132
NTDB id 105 BSU 25590 NP 390437.1             TIVIDIKGAVQHPGVYEMRTG.DRVSQAIEKAGGTSEQADEAQVNLAEILQDGTVVYIPKKGEETAVQQ...........  128
consensus                                     ****!*!!!!**!!*!***** *!*******!!!****!!****!!!****!****!*!**!!** ***

logo
NTDB id 613 LCA RS05340 WP 231952379.1        SERTQEQASTGTSANASSTSDTAKIDLNQADSTQLQTLNGIGPKKAEQIIAYRDEQGKFKQIEDLQKVGGIGPKTFEQLQ  229
NTDB id 521 SMSK321 RS04960 WP 000443804.1    .........TGSGAPSS.TSKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLK  210
NTDB id 493 SM12261 RS04300 WP 000387351.1    .........AGPGTASS.TSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLK  210
NTDB id 153 SP RS04730 WP 000387344.1         .........TGSGTASS.TSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLK  210
NTDB id 263 KZH43 RS04195 WP 000387330.1      .........TGLGTASS.ISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLK  210
NTDB id 222 SPD RS04535 WP 000387330.1        .........TGLGTASS.ISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLK  210
NTDB id 188 SPR RS04295 WP 000387330.1        .........TGLGTASS.ISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLK  210
NTDB id 306695 DXX91 RS12505 WP 043867297.1  .........TAV.....GEKENAAVNINTASLDELQAISGVGQKKAEAIIAYREENGRFQTAEDLMKVSGFGEKSFERIK  198
NTDB id 105 BSU 25590 NP 390437.1             .........GGGGSVQSDGGKGALVNINTATLEELQGISGVGPSKAEAIIAYREENGRFQTIEDITKVSGIGEKSFEKIK  199
consensus                                          ** *****  ********!*!****!****!*!***!**!!**!***!*!*******!!*!*!*!**!***

logo
NTDB id 613 LCA RS05340 WP 231952379.1        SQICVN   235
NTDB id 521 SMSK321 RS04960 WP 000443804.1    DYVTVD   216
NTDB id 493 SM12261 RS04300 WP 000387351.1    DYVTVD   216
NTDB id 153 SP RS04730 WP 000387344.1         DYVTVD   216
NTDB id 263 KZH43 RS04195 WP 000387330.1      DYVTVD   216
NTDB id 222 SPD RS04535 WP 000387330.1        DYVTVD   216
NTDB id 188 SPR RS04295 WP 000387330.1        DYVTVD   216
NTDB id 306695 DXX91 RS12505 WP 043867297.1   TSITVK   204
NTDB id 105 BSU 25590 NP 390437.1             SSITVK   205
consensus                                     ****!*
```

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