```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 595 KW2 RS08725 WP 021037687.1          .MEKILDKLKEYWKIMLLVVCALIAGGIFYIFTNSPKPAETLSV.....ENLSSSSTKSSV........SKFNSSSSEKN    66
NTDB id 300 STER RS07485 WP 011681496.1         MKEKILAYVKDNRLFVSVIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTALSTSSSKQSSQSLSEASSQSKTE.GSEKV    79
NTDB id 1119568 EL081 RS03480 WP 126403987.1    .METWIEKIKEYKLFLGLAAVGLVIGGLFLFWPKQPPQAPETVI.SQL.EMVDQETSPKEDTSLSSSSQQRSEEKM.EPS    76
NTDB id 521 SMSK321 RS04960 WP 000443804.1      .MESIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPHTPVKETNL.QAEVVAISKDSSI........EKDVKKEEKEEPVE    70
NTDB id 493 SM12261 RS04300 WP 000387351.1      .MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNL.QAEVVAVSKDSVS........EKEVKKEEKEEPLE    70
NTDB id 153 SP RS04730 WP 000387344.1           .MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNL.QAEVAAVSKDSST........EKEVKKEEKEEPLE    70
NTDB id 263 KZH43 RS04195 WP 000387330.1        .MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNL.QAEVAAVSKDLVS........EKEVNKEEKEEPLE    70
NTDB id 222 SPD RS04535 WP 000387330.1          .MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNL.QAEVAAVSKDLVS........EKEVNKEEKEEPLE    70
NTDB id 188 SPR RS04295 WP 000387330.1          .MEAIIEKIKEYKIIVICTGLGLLVGGFFLLKPAPQTPVKETNL.QAEVAAVSKDLVS........EKEVNKEEKEEPLE    70
consensus                                        *!******!******************!***************  ****  ********         **************

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 595 KW2 RS08725 WP 021037687.1          KNEIMVDLKGAVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSSSESTDSPTGSSVS   146
NTDB id 300 STER RS07485 WP 011681496.1         KSKVTVDVKGAVVNPGVYTLKAGARVTDVIQEAGGMTEDADAKSVNLAASLSDEEVIYVANKDENVSVLDQTGTGQVSDK   159
NTDB id 1119568 EL081 RS03480 WP 126403987.1    QEKIMVDVKGAVRQAGVYELPVGSRVYDAVQKAGGMTDEANSQSVNLAQKLEDESIVYVAKNGEEIAPVASASAG...TT   153
NTDB id 521 SMSK321 RS04960 WP 000443804.1      QDLITVDVKGAVKSPGIYDLSVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQHT...G...SG   144
NTDB id 493 SM12261 RS04300 WP 000387351.1      QDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAASQQA...G...PG   144
NTDB id 153 SP RS04730 WP 000387344.1           QDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQT...G...SG   144
NTDB id 263 KZH43 RS04195 WP 000387330.1        QDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQT...G...LG   144
NTDB id 222 SPD RS04535 WP 000387330.1          QDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQT...G...LG   144
NTDB id 188 SPR RS04295 WP 000387330.1          QDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQT...G...LG   144
consensus                                       *****!!*!!!!*****!******!**!****!!!*!**!***!*!!*****!!***!!****!**  ****    *     *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 595 KW2 RS08725 WP 021037687.1          NQISTTSGPKVNINKADLTELQKLTGIGQKKAQDIIDFRMKNGDFKSIEDLGKVSGFGDKTLEKLKDEISID   218
NTDB id 300 STER RS07485 WP 011681496.1         GGQAVSKDGKINLNTATSEQLQTISGIGAKRAEDVIAYRESHGGFQSVDDLKNVSGIGDKTLDKIRESLYVA   231
NTDB id 1119568 EL081 RS03480 WP 126403987.1    SGEKQSKDGKVNLNTATEAELQTISGIGQKRAQDIIAYREEKGKFQSVDELKNVSGIGQKTLEKLKEHVTVD   225
NTDB id 521 SMSK321 RS04960 WP 000443804.1      APSSTSKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD   216
NTDB id 493 SM12261 RS04300 WP 000387351.1      TASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD   216
NTDB id 153 SP RS04730 WP 000387344.1           TASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 263 KZH43 RS04195 WP 000387330.1        TASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 222 SPD RS04535 WP 000387330.1          TASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 188 SPR RS04295 WP 000387330.1          TASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
consensus                                       ****  ****!*!*!*!****!****!*!*!*!*!*!**!***!*!*!***!**!!!*!*!!**!********
```

X non conserved

X similar

X $\geq$50% conserved