```
logo

NTDB id 613 LCA RS05340 WP 231952379.1        MM..WQDYWQRYRRFWWVPCLVLLGIIAGGFYWHQSQQKQKVTQNE...QL..LATSASK.......TKPATKKTHQAAT   66
NTDB id 521 SMSK321 RS04960 WP 000443804.1    .MESIIEKIKEYK..IIVICTGLGLLVGGFFLLKPAPHTP.VKETNLQAEVVAISKDSST.......EKDVKKEEKEEPV   69
NTDB id 153 SP RS04730 WP 000387344.1         .MEAIIEKIKEYK..IIVICTGLGLLVGGFFLLKPAPQTP.VKETNLQAEVAAVSKDSST.......EKEVKKEEKEEPL   69
NTDB id 223268 A6J87 RS07635 WP 021143743.1  MKEKILAYVKDNR..LFVSVIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTTLSTSSSKEGSKSLTEVSSQSKTEESEK   78
NTDB id 300 STER RS07485 WP 011681496.1      MKEKILAYVKDNR..LFVSVIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTALSTSSSKQSSQSLSEASSQSKTEGSEK   78
consensus                                    *** *********  **! ***********!**      * *       ** ******!*        **   *** *

logo

NTDB id 613 LCA RS05340 WP 231952379.1        KKKGGFVDIKGAVVYPGIYPITVSETRLFEVLKNAGGPTDAADTKRLNLAQKLTDQLIIYIPKKGEVVTDQELIQAPQQI  146
NTDB id 521 SMSK321 RS04960 WP 000443804.1    EQDLITVDVKGAVKSPGIYDLSVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQ.HTGS....  143
NTDB id 153 SP RS04730 WP 000387344.1         EQDLITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGS....  143
NTDB id 223268 A6J87 RS07635 WP 021143743.1  DKSKVTVDVKGAVANPGVYTLKAS.ARVTDAIKAAGGMTEDADAKSVNLAASLSDEEVIYVATKDENLSVLGQSGTS...  154
NTDB id 300 STER RS07485 WP 011681496.1      VKSKVTVDVKGAVVNPGVYTLKAG.ARVTDVIQEAGGMTEDADAKSVNLAASLSDEEVIYVANKDENVSVLDQTGTG...  154
consensus                                    **  **!!*!!!!  !!*! * ** *!* **** !!!*!* !!*!**!!!****!* **!***!*! ** * ****

logo

NTDB id 613 LCA RS05340 WP 231952379.1        ATTSERTQEQASTGTSANASSTSDTAKIDLNQADSTQLQTLNGIGPKKAEQIIAYRDEQGKFKQIEDLQKVGGIGPKTFE  226
NTDB id 521 SMSK321 RS04960 WP 000443804.1    ................GAPSSTSKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIE  207
NTDB id 153 SP RS04730 WP 000387344.1         ................GTASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIE  207
NTDB id 223268 A6J87 RS07635 WP 021143743.1  ............QVSDKGGQTNAKDGKINLNTATAEELQTISGIGAKRAEDIIAYRESHGGFQSVDDLKNVSGIGDKTLD  222
NTDB id 300 STER RS07485 WP 011681496.1      ............QVSDKGGQAVSKDGKINLNTATSEQLQTISGIGAKRAEDVIAYRESHGGFQSVDDLKNVSGIGDKTLD  222
consensus                                                * **********!**!! !* **!*** !*!*!*!***!**!* *!*!*****!**!*!!! !!**

logo

NTDB id 613 LCA RS05340 WP 231952379.1        QLQSQICVN   235
NTDB id 521 SMSK321 RS04960 WP 000443804.1    KLKDYVTVD   216
NTDB id 153 SP RS04730 WP 000387344.1         KLKDYVTVD   216
NTDB id 223268 A6J87 RS07635 WP 021143743.1  KIRESIYVA   231
NTDB id 300 STER RS07485 WP 011681496.1      KIRESLYVA   231
consensus                                    **** * !
```

X non conserved

X similar

X $\geq$ 50% conserved