```
logo

NTDB id 613 LCA RS05340 WP 231952379.1          MM..WQDYWQRYRRFWWVPCLVLLGIIAGGFYWHQSQQKQKVTQNEQL......LATSASKT.......KPATKKTHQAA   65
NTDB id 521 SMSK321 RS04960 WP 000443804.1      .MESIIEKIKEYK..IIVICTGLGLLVGGFFLLKPAPHTPV.KE.TNLQAEVVAISKDSS.......TEKDVKKEEKEEP   68
NTDB id 153 SP RS04730 WP 000387344.1           .MEAIIEKIKEYK..IIVICTGLGLLVGGFFLLKPAPQTPV.KE.TNLQAEVAAVSKDSS.......TEKEVKKEEKEEP   68
NTDB id 1130981 H0511 RS07250 WP 179973927.1   MKEKILSYVNNNR..LFVSIIGVLVVVFCFFLWMTCGAGNS.MEAETSYTDVTTLSTSSSKQSSKSLTEVSSQSQTEGSE   77
NTDB id 300 STER RS07485 WP 011681496.1        MKEKILAYVKDNR..LFVSVIAVLMVIFCFFLWMTCGAGNS.MEAETSYTDVTALSTSSSKQSSQSLSEASSQSKTEGSE   77
consensus                                       *** *********  **! ***********!**      *   * ***  ** ******!*      ***   * *

logo

NTDB id 613 LCA RS05340 WP 231952379.1          TKKKGGFVDIKGAVVYPGIYPITVSETRLFEVLKNAGGPTDAADTKRLNLAQKLTDQLIIYIPKKGEVVTDQELIQAPQQ  145
NTDB id 521 SMSK321 RS04960 WP 000443804.1      VEQDLITVDVKGAVKSPGIYDLSVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQ.HTGS...  143
NTDB id 153 SP RS04730 WP 000387344.1           LEQDLITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGS...  143
NTDB id 1130981 H0511 RS07250 WP 179973927.1   KVKSKVTVDVKGAVVKPGVYTLKAG.VRVTDVIQKAGGMTEDADAKSVNLAASLSDEEVIYVANKYENVSVLDQSGTG..  154
NTDB id 300 STER RS07485 WP 011681496.1        KVKSKVTVDVKGAVVNPGVYTLKAG.ARVTDVIQEAGGMTEDADAKSVNLAASLSDEEVIYVANKDENVSVLDQTGTG..  154
consensus                                         *  **!!*!!!!* !!*! * ** *!* *****!!!*!* !!*!**!!!****!* **!** !*! ** ******

logo

NTDB id 613 LCA RS05340 WP 231952379.1          IATTSERTQEQASTGTSANASSTSDTAKIDLNQADSTQLQTLNGIGPKKAEQIIAYRDEQGKFKQIEDLQKVGGIGPKTF  225
NTDB id 521 SMSK321 RS04960 WP 000443804.1      ................GAPSSTSKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTI  206
NTDB id 153 SP RS04730 WP 000387344.1           ................GTASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTI  206
NTDB id 1130981 H0511 RS07250 WP 179973927.1   .............QVSDKGGQAVSKDGKINLNTATSEQLQTIPGIGAKRAEDIIAYRESHGGFQSVDDLKNVSGIGDKTL  221
NTDB id 300 STER RS07485 WP 011681496.1        .............QVSDKGGQAVSKDGKINLNTATSEQLQTISGIGAKRAEDVIAYRESHGGFQSVDDLKNVSGIGDKTL  221
consensus                                                   * ******!***!**!! !****!*** !*!*!*!***!**!* *!*!*****!**!*!!! !!*

logo

NTDB id 613 LCA RS05340 WP 231952379.1          EQLQSQICVN   235
NTDB id 521 SMSK321 RS04960 WP 000443804.1      EKLKDYVTVD   216
NTDB id 153 SP RS04730 WP 000387344.1           EKLKDYVTVD   216
NTDB id 1130981 H0511 RS07250 WP 179973927.1   DKIRESIYVA   231
NTDB id 300 STER RS07485 WP 011681496.1        DKIRESLYVA   231
consensus                                      ***** * !
```

X non conserved

X similar

X ≥ 50% conserved