```
logo

NTDB id 613 LCA RS05340 WP 231952379.1        ....MMWQDYWQRYRR.FWWVPCLVLLGIIAG.GFYWHQSQQKQKVTQNEQLLATSA......SKTKPATKKTHQAATKK   68
NTDB id 153 SP RS04730 WP 000387344.1         ......MEAIIEKIKEYKIIVICTGLGLLVG..GFFLLKPAPQTPVKETN.LQAEVAAVSKDSSTEKEVKKEEKEEPLEQ   71
NTDB id 521 SMSK321 RS04960 WP 000443804.1    ......MESIIEKIKEYKIIVICTGLGLLVG..GFFLLKPAPHTPVKETN.LQAEVVAISKDSSTEKDVKKEEKEEPVEQ   71
NTDB id 414887 GNE05 RS13405 WP 025285016.1   MTKAMMTERLRR..NL.KILGACLVAGAVFIC..IWLFRSEKEEPVKQQS.VLGQTA...........SASVADKKDTAD   63
NTDB id 105 BSU 25590 NP 390437.1             ......MNWLNQ..HKKAIIL..AASAAVFTAIMIFLATGKNKEPVKQAV.PTETEN.........TVVKQEANNDESN   59
consensus                                        ** *  * *  **** * *******  **** *     *!**   * *  *      *  * * * *      *

logo

NTDB id 613 LCA RS05340 WP 231952379.1        KGGFVDIKGAVVYPGIYPITVSETRLFEVLKNAGGPTDAADTKRLNLAQKLTDQLIIYIPKKGEVVTDQELIQAPQQIAT  148
NTDB id 153 SP RS04730 WP 000387344.1         DLITVDVKGAVKSPGIYDLPVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQQ..........  140
NTDB id 521 SMSK321 RS04960 WP 000443804.1    DLITVDVKGAVKSPGIYDLSVG.SRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQH..........  140
NTDB id 414887 GNE05 RS13405 WP 025285016.1   DKIMIDVKGAVRNPGVYEMKAG.DRVTQAIEKAGGLKKKADELNVNLAEQLQDGTIVYIPSEGEEENRPK..........  132
NTDB id 105 BSU 25590 NP 390437.1             ETIVIDIKGAVQHPGVYEMRTG.DRVSQAIEKAGGTSEQADEAQVNLAEILQDGTVVYIPKKGEETAVQQ..........  128
consensus                                     * * *!*!!!!* !!*!** ** *!* *** *!!!****!!** *!!!****!  **!*!**!!*    *

logo

NTDB id 613 LCA RS05340 WP 231952379.1        TSERTQEQASTGTSANASSTSDTAKIDLNQADSTQLQTLNGIGPKKAEQIIAYRDEQGKFKQIEDLQKVGGIGPKTFEQL  228
NTDB id 153 SP RS04730 WP 000387344.1         ..........TGSGTASST.SKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKL  209
NTDB id 521 SMSK321 RS04960 WP 000443804.1    ..........TGSGAPSST.SKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKL  209
NTDB id 414887 GNE05 RS13405 WP 025285016.1   ..........TAAG.....EKENAAVNINTASLDELQAISGVGQKKAEAIIAYREENGRFQTAEDLMNVSGFGEKSFERI  197
NTDB id 105 BSU 25590 NP 390437.1             ..........GGGGSVQSDGGKGALVNINTATLEELQGISGVGPSKAEAIIAYREENGRFQTIEDITKVSGIGEKSFEKI  198
consensus                                        ****    ** ** *****! !****!* * !*! **!* !!**!***!*!****** *!*!*! !**!**

logo

NTDB id 613 LCA RS05340 WP 231952379.1        QSQICVN   235
NTDB id 153 SP RS04730 WP 000387344.1         KDYVTVD   216
NTDB id 521 SMSK321 RS04960 WP 000443804.1    KDYVTVD   216
NTDB id 414887 GNE05 RS13405 WP 025285016.1   KTSITVK   204
NTDB id 105 BSU 25590 NP 390437.1             KSSITVK   205
consensus                                     ** **!
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X non conserved

X similar

X $\geq$ 50% conserved