```
logo

NTDB id 595 KW2 RS08725 WP 021037687.1        ....MEKILDKLKEYWKIMLLVVCALIAGGIFYIFTNSPKPAETLS........VENLSSSSTKSSV.......SKFNSS    61
NTDB id 521 SMSK321 RS04960 WP 000443804.1    ....MESIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPHTPVKETN.LQAEVVAISKDSS.......TEKDVKKEEK    65
NTDB id 493 SM12261 RS04300 WP 000387351.1    ....MEAIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPQTPVKETN.LQAEVVAVSKDSV.......SEKEVKKEEK    65
NTDB id 263 KZH43 RS04195 WP 000387330.1      ....MEAIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPQTPVKETN.LQAEVAAVSKDLV.......SEKEVNKEEK    65
NTDB id 222 SPD RS04535 WP 000387330.1        ....MEAIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPQTPVKETN.LQAEVAAVSKDLV.......SEKEVNKEEK    65
NTDB id 188 SPR RS04295 WP 000387330.1        ....MEAIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPQTPVKETN.LQAEVAAVSKDLV.......SEKEVNKEEK    65
NTDB id 153 SP RS04730 WP 000387344.1         ....MEAIIEKIKEYKIIVICTG.LGLLVG..GFFLLKPAPQTPVKETN.LQAEVAAVSKDSS.......TEKEVKKEEK    65
NTDB id 299445 DP111 RS08840 WP 079394055.1  MDTMKT.YIEMLKEYKWQIALPAVAGLLMATFLIF...SQPAKSDQ......TGLTDFPQTAQTSSSSDLVEET....ST    66
NTDB id 300 STER RS07485 WP 011681496.1       ...MKEKILAYVKDNRLFVS...VIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTALSTSSSKQSSQSLSEASSQSKTE    74
consensus                                        ********!********** ******  **!************** ***** ******        ***** ****

logo

NTDB id 595 KW2 RS08725 WP 021037687.1        SSEKNKNEIMVDLKGAVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSSSESTDSPT   141
NTDB id 521 SMSK321 RS04960 WP 000443804.1    EEPVEQDLITVDVKGAVKSPGIYDLSVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESASQ.HTGSG   144
NTDB id 493 SM12261 RS04300 WP 000387351.1    EEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAASQ.QAGPG   144
NTDB id 263 KZH43 RS04195 WP 000387330.1      EEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGLG   144
NTDB id 222 SPD RS04535 WP 000387330.1        EEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGLG   144
NTDB id 188 SPR RS04295 WP 000387330.1        EEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGLG   144
NTDB id 153 SP RS04730 WP 000387344.1         EEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVSQ.QTGSG   144
NTDB id 299445 DP111 RS08840 WP 079394055.1  EVSEEPSQLVVDVKGAVEKPGLYTLEAGARVNDAVEAAGGLTSQADPKSINLAQKLSDEAVVYVASKDENISVVASTNAS   146
NTDB id 300 STER RS07485 WP 011681496.1       GSEKVKSKVTVDVKGAVVNPGVYTLKAGARVTDVIQEAGGMTEDADAKSVNLAASLSDEEVIYVANKDENVSVLDQTGTG   154
consensus                                     **********!!*!!!!**!**!******!**!****!!!*!**!!*!!*!!*****!!***!!****!** ** *** *

logo

NTDB id 595 KW2 RS08725 WP 021037687.1        GSSVSNQISTTSGPKVNINKADLTELQKLTGIGQKKAQDIIDFRMKNGDFKSIEDLGKVSGFGDKTLEKLKDEISID   218
NTDB id 521 SMSK321 RS04960 WP 000443804.1    A.....PSSTSKDKKINLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD   216
NTDB id 493 SM12261 RS04300 WP 000387351.1    T.....ASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD   216
NTDB id 263 KZH43 RS04195 WP 000387330.1      T.....ASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 222 SPD RS04535 WP 000387330.1        T.....ASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 188 SPR RS04295 WP 000387330.1        T.....ASSISKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 153 SP RS04730 WP 000387344.1         T.....ASSTSKEKKVNLNKASLEELKQVKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIEKLKDYVTVD   216
NTDB id 299445 DP111 RS08840 WP 079394055.1  SAM...SQEEKNTSLVNLNTATEADLQTISGIGAKRATDIIAYREANGGFKSVDDLNNVSGIGDKTMESIRPYVTVD   220
NTDB id 300 STER RS07485 WP 011681496.1       QVSDKGGQAVSKDGKINLNTATSEQLQTISGIGAKRAEDVIAYRESHGGFQSVDDLKNVSGIGDKTLDKIRESLYVA   231
consensus                                     *     *** ******!*!*!****!****!*!*!*!*!*!**!***!*!*!***!**!!!*!*!!***********
```

X non conserved

X similar

X ≥ 50% conserved