```
logo

NTDB id 109 BSU 35450 NP 391425.2              MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKPDE.KVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR   79
NTDB id 54458 UC509 RS05420 WP 015082373.1     ..........MQTCLLCSRIIKQTLTFSEFFLLKNKRNLICNKCQSLFKKIPNERCPRCSKSN.SKGICADCLKWEEKG.   68
NTDB id 594 KW2 RS12255 WP 244878749.1         ..........................................................................................    0
NTDB id 278 KZH43 RS10085 WP 000649974.1       ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEG.   67
NTDB id 237 SPD RS10760 WP 000649974.1         ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEG.   67
NTDB id 203 SPR RS10245 WP 000649974.1         ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEG.   67
NTDB id 168 SP RS11270 WP 000649971.1          ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEG.   67
NTDB id 508 SM12261 RS09235 WP 000649953.1     ...........MKCLLCGQTMKAVLTFSSLLLLKNDASCLCLDCDSTFERIGEENCPNCMKTD.LSMKCQDCQLWCKEG.   67
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   ...........MKCLLCGQTMKAVLTFSSLLLLRNDVSCLCLDCDSTFERIGEENCPNCMKTA.LSTQCQDCQFWCKEG.   67
consensus                                                 *********** ****************** ********************* **************

logo

NTDB id 109 BSU 35450 NP 391425.2              DSLLLRQNRSVYTYNDMMKETLSRFKFRGDAEIINAFKSDFSSTFSKVYPDKHFVLVPIPLSKEREEERGFNQAHLLAEC   159
NTDB id 54458 UC509 RS05420 WP 015082373.1     ...IIVNHQSIFIYNQAMKDYFSLYKFMGDYRLHEVFDSYFKNLSK......KIPLVPIPVSPKRLQERGFNQVTAFLKD   139
NTDB id 594 KW2 RS12255 WP 244878749.1         ..................MKDYFSLYKFMGDYRLHEVFDSYFKNLSK......KIPLVPIPVSPKRLQERGFNQVTAFLKD    57
NTDB id 278 KZH43 RS10085 WP 000649974.1       ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELK.K..YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 237 SPD RS10760 WP 000649974.1         ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELK.K..YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 203 SPR RS10245 WP 000649974.1         ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELK.K..YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 168 SP RS11270 WP 000649971.1          ...VEVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELK.K..YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 508 SM12261 RS09235 WP 000649953.1     ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELK.K..YKEYQFVVIPLSPERLLERGFNQVEGLVEA   141
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELK.K..YKEYQFVVIPLSPERLLERGFNQVEGLVEA   141
consensus                                         * ************!!***!**!!*!!******!*!******* *   ******!*!!*!**!   *!!!!!*******

logo

NTDB id 109 BSU 35450 NP 391425.2              LDRPSHHPLIRLNNEKQSKKKKTERLLSECIFDTKNNSAEGMNIILIDDLYTTGATLHFAARCLLEKGKAASVSSFTLIR   239
NTDB id 54458 UC509 RS05420 WP 015082373.1     RAYL..YLLEKEDIVRQSSLNREGRLSTSNPFKLKEGEKIPQKIILIDDIYTTGTTFYHAIK.TLKKANPIEITTFSLCR   216
NTDB id 594 KW2 RS12255 WP 244878749.1         RTYL..DLLEKEDTVRQSSLNREGRLSTTNPFKLKEGEKIPQKIILIDDIYTTGTTFYHAIK.TLKKANPIEITTFSLCR   134
NTDB id 278 KZH43 RS10085 WP 000649974.1       AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKK.LLEEAGAKDVKTFSLVR   220
NTDB id 237 SPD RS10760 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKK.LLEEAGAKDVKTFSLVR   220
NTDB id 203 SPR RS10245 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKK.LLEEAGAKDVKTFSLVR   220
NTDB id 168 SP RS11270 WP 000649971.1          AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKK.LLEEAGAKDVKTFSLVR   220
NTDB id 508 SM12261 RS09235 WP 000649953.1     AGFAYLDLLEKREERASSSKSRSERLETEFPFFIKSGVTIPKKILLIDDIYTTGTTINRVKK.LLEEAGAEDVKTFSLVR   220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   AGFSFQELLEKREERASSSKNRSERLGTELPFFIKRGVTIPKKILLIDDIYTTGSTINRVKK.LLEEAGAEDVKTFSLVR   220
consensus                                      *** ****!********!******!!*****!**!********!*!!!!*!!!!*!******  *!*****  ****!*!*!

logo

                                               S
NTDB id 109 BSU 35450 NP 391425.2              S   240
NTDB id 54458 UC509 RS05420 WP 015082373.1     .   216
NTDB id 594 KW2 RS12255 WP 244878749.1         .   134
NTDB id 278 KZH43 RS10085 WP 000649974.1       .   220
NTDB id 237 SPD RS10760 WP 000649974.1         .   220
NTDB id 203 SPR RS10245 WP 000649974.1         .   220
NTDB id 168 SP RS11270 WP 000649971.1          .   220
NTDB id 508 SM12261 RS09235 WP 000649953.1     .   220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   .   220
consensus
```

X non conserved
X similar
X $\geq$ 50% conserved