```
logo

NTDB id 109 BSU 35450 NP 391425.2             MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKPDE.KVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR   79
NTDB id 182825 LL158 RS05455 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 182825 LL158 RS05455 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 182825 LL158 RS05455 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

NTDB id 109 BSU 35450 NP 391425.2             S   240
NTDB id 182825 LL158 RS05455 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