```
logo

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 168 SP RS11270 WP 000649971.1          ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEG.    67
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 536 SMSK321 RS0102865 WP 000649958.1  ...........MKCLLCGQTMKAVLTFSSLLLLRNDVSCLCLDCDSTFERIGEENCPNCMKTA.LSTQCQDCQFWCKEG.    67
NTDB id 508 SM12261 RS09235 WP 000649953.1    ...........MKCLLCGQTMKAVLTFSSLLLLKNDASCLCLDCDSTFERIGEENCPNCMKTD.LSMKCQDCQLWCKEG.    67
NTDB id 983945 NSQ70 RS16250 WP 342502276.1   ..................................................MKIQGPTCPKCGRAQSNDQLCQDCSRWNKRRD    32
NTDB id 109 BSU 35450 NP 391425.2             MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKPD.EKVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR    79
consensus                                                 *********** ************ **** ********!****!!*!**** ****!*!!**!****

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NTDB id 168 SP RS11270 WP 000649971.1          ...VEVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 278 KZH43 RS10085 WP 000649974.1       ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 237 SPD RS10760 WP 000649974.1         ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 203 SPR RS10245 WP 000649974.1         ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKK...YKEYQFVVIPLSPERLLERGFNQVEGLVEA   141
NTDB id 508 SM12261 RS09235 WP 000649953.1    ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKK...YKEYQFVVIPLSPERLLERGFNQVEGLVEA   141
NTDB id 983945 NSQ70 RS16250 WP 342502276.1   FAEILVMNRSVYAYNDFMKDILARFKFRGDTALADLFKKDVQSAFKRSFSIKEPVLVPIPLSKERLKERGFNQSMMLASM   112
NTDB id 109 BSU 35450 NP 391425.2             DSLLLRQNRSVYTYNDMMKETLSRFKFRGDAETINAFKSDFSSTFSKVYPDKHFVLVPIPLSKEREEERGFNQAHLLAEC   159
consensus                                        * ***!****!!**!!****!*!!*!!******!** *******    *!****!*!!!!**!    !!!!!***!***

logo

NTDB id 168 SP RS11270 WP 000649971.1          AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGV.TIPKKILLIDDIYTTGATINRVKKLL.EEAGAKDVKTFSLV   219
NTDB id 278 KZH43 RS10085 WP 000649974.1       AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGV.TIPKKILLIDDIYTTGATINRVKKLL.EEAGAKDVKTFSLV   219
NTDB id 237 SPD RS10760 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGV.TIPKKILLIDDIYTTGATINRVKKLL.EEAGAKDVKTFSLV   219
NTDB id 203 SPR RS10245 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGV.TIPKKILLIDDIYTTGATINRVKKLL.EEAGAKDVKTFSLV   219
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  AGFSFQELLEKREERASSSKNRSERLGTELPFFIKRGV.TIPKKILLIDDIYTTGSTINRVKKLL.EEAGAEDVKTFSLV   219
NTDB id 508 SM12261 RS09235 WP 000649953.1    AGFAYLDLLEKREERASSSKSRSERLETEFPFFIKSGV.TIPKKILLIDDIYTTGTTINRVKKLL.EEAGAEDVKTFSLV   219
NTDB id 983945 NSQ70 RS16250 WP 342502276.1   IGGPILEPLIKVHQSKQSKKRKNERLHQQNLFQLRQSNPIVLKDVILIDDIYTTGATVYHAAKILK.DAGAKSVSSFTLI   191
NTDB id 109 BSU 35450 NP 391425.2             LDRPSHHPLIRLNNEKQSKKKKTERLLSECIFDTKNNS.AEGMNIILIDDLYTTGATLHFAARCLLEKGKAASVSSFTLI   238
consensus                                     *** ****!********!*!***!!!*****!****** *******!!!!*!!!!*!******!  ****!**!**!*!*

logo

NTDB id 168 SP RS11270 WP 000649971.1          R.    220
NTDB id 278 KZH43 RS10085 WP 000649974.1       R.    220
NTDB id 237 SPD RS10760 WP 000649974.1         R.    220
NTDB id 203 SPR RS10245 WP 000649974.1         R.    220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  R.    220
NTDB id 508 SM12261 RS09235 WP 000649953.1    R.    220
NTDB id 983945 NSQ70 RS16250 WP 342502276.1   RS    193
NTDB id 109 BSU 35450 NP 391425.2             RS    240
consensus                                     !
```

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