```
logo

NTDB id 109 BSU 35450 NP 391425.2              MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKP.DEKVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR   79
NTDB id 177442 A4H00 RS05775 WP 067088103.1    ..........MTVCLLCQQALKKRILFSDLLLLRREQEGICSDCQEKFSPISEIHCPTCFKE.GEEASCTDCLYWSNKG.   68
NTDB id 168 SP RS11270 WP 000649971.1          ..........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKT.ELSTKCQDCQLWCKEG.   67
NTDB id 278 KZH43 RS10085 WP 000649974.1       ..........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKT.ELSTKCQDCQLWCKEG.   67
NTDB id 237 SPD RS10760 WP 000649974.1         ..........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKT.ELSTKCQDCQLWCKEG.   67
NTDB id 203 SPR RS10245 WP 000649974.1         ..........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKT.ELSTKCQDCQLWCKEG.   67
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  ..........MKCLLCGQTMKAVLTFSSLLLLRNDVSCLCLDCDSTFERIGEENCPNCMKT.ALSTQCQDCQFWCKEG.   67
NTDB id 508 SM12261 RS09235 WP 000649953.1    ..........MKCLLCGQTMKAVLTFSSLLLLKNDASCLCLDCDSTFERIGEENCPNCMKT.DLSMKCQDCQLWCKEG.   67
consensus                                                **!!!!*****  ******!*!!*******!**!******!****!!*!***  *****!*!!**!****

logo

NTDB id 109 BSU 35450 NP 391425.2              DSLLLRQNRSVYTYNDMMKETLSRFKFRGDAEIINAFKSDFSSTFSKVYPDKHFVLVPIPLSKEREEERGFNQAHLLAEC   159
NTDB id 177442 A4H00 RS05775 WP 067088103.1    ...LEVSHESLYRYNEQMADYISRYKFIGDYLLRTVFATELRNYFKN...KTDYTLVPIPISEKRMTERGFNQVTGLLSA   142
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
consensus                                        * ********!!**!****!!*!!*!!******!**  *******   ******!*!!*!**!    !!!!!***!***

logo

NTDB id 109 BSU 35450 NP 391425.2              LDRPSHHPLIRLNNEKQSKKKKTERLLSECIFDTKNNSAEGMNIILIDDLYTTGATLHFAARCLLEKGKAASVSSFTLIR   239
NTDB id 177442 A4H00 RS05775 WP 067088103.1    AGVSFVELLQKEDTKKQSEKNRAERLASKQSFSILANVDVPEKIILIDDIYTTGATIQLAKQILMKN.GAKAVTSFSLAR   221
NTDB id 168 SP RS11270 WP 000649971.1          AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEA.GAKDVKTFSLVR   220
NTDB id 278 KZH43 RS10085 WP 000649974.1       AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEA.GAKDVKTFSLVR   220
NTDB id 237 SPD RS10760 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEA.GAKDVKTFSLVR   220
NTDB id 203 SPR RS10245 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEA.GAKDVKTFSLVR   220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  AGFSFQELLEKREERASSSKNRSERLGTELPFFIKRGVTIPKKILLIDDIYTTGSTINRVKKLLEEA.GAEDVKTFSLVR   220
NTDB id 508 SM12261 RS09235 WP 000649953.1    AGFAYLDLLEKREERASSSKSRSERLETEFPFFIKSGVTIPKKILLIDDIYTTGTTINRVKKLLEEA.GAEDVKTFSLVR   220
consensus                                     *** ****!********!*!***!!!*****!***********!*!!!!*!!!!*!*******!***  *!**!**!*!*!

logo

NTDB id 109 BSU 35450 NP 391425.2              S   240
NTDB id 177442 A4H00 RS05775 WP 067088103.1    .   221
NTDB id 168 SP RS11270 WP 000649971.1          .   220
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 536 SMSK321 RS0102865 WP 000649958.1  .   220
NTDB id 508 SM12261 RS09235 WP 000649953.1    .   220
consensus
```

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