```
logo

NTDB id 109 BSU 35450 NP 391425.2             MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKPD.EKVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR   79
NTDB id 194035 BFM96 RS05080 WP 068991168.1   ..........MNHCLLCHHPLKQHYRFLDLLLLKKQAVFTCDTCMSEFKEIGEQHCERCWKE.GEDVLCSDCQEWEKKG.   68
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 168 SP RS11270 WP 000649971.1         ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKT.ELSTKCQDCQLWCKEG.   67
NTDB id 508 SM12261 RS09235 WP 000649953.1    ...........MKCLLCGQTMKAVLTFSSLLLLKNDASCLCLDCDSTFERIGEENCPNCMKT.DLSMKCQDCQLWCKEG.   67
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  ...........MKCLLCGQTMKAVLTFSSLLLLRNDVSCLCLDCDSTFERIGEENCPNCMKT.ALSTQCQDCQFWCKEG.   67
consensus                                                **!!!!*****  ******!*!!***  ***!  *!*!****!****!**!***  *****!*!!**!****

logo

NTDB id 109 BSU 35450 NP 391425.2             DSLLLRQNRSVYTYNDMMKETLSRFKFRGDAEIINAFKSDFSSTFSKVYPDKHFVLVPIPLSKEREEERGFNQAHLLAEC   159
NTDB id 194035 BFM96 RS05080 WP 068991168.1   ...EMIEHQACFRYNQAMKEYFSTYKFQGDYALHRVFARTFSRALKPY..QKEFTLVPIPVSSHRFQKRGFNQVTAFLEG   143
NTDB id 278 KZH43 RS10085 WP 000649974.1      ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKKY...KEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 237 SPD RS10760 WP 000649974.1        ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKKY...KEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 203 SPR RS10245 WP 000649974.1        ...VGVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKKY...KEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 168 SP RS11270 WP 000649971.1         ...VEVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKKY...KEYQFVVIPLSPDRYANRGFNQVEGLVEA   141
NTDB id 508 SM12261 RS09235 WP 000649953.1    ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKKY...KEYQFVVIPLSPERLLERGFNQVEGLVEA   141
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  ...VEVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKKY...KEYQFVVIPLSPERLLERGFNQVEGLVEA   141
consensus                                        * ********!!**!!***!**!!*!!******!**  *!******   !****!*!!*!**!*  !!!!!*****!*

logo

NTDB id 109 BSU 35450 NP 391425.2             LDRPSHHPLIRLNNEKQSKKKKTERLLSECIFDTKNNSAEGMNIILIDDLYTTGATLHFAARCLLEKCKAASVSSFTLIR   239
NTDB id 194035 BFM96 RS05080 WP 068991168.1   AKLSYSDLLEKELSLAQSSKTREERLQTQQVFSIRDLKNLPEKILLIDDIYTTGATLHLAKKLLLENGV.KRVRTFSLAR   222
NTDB id 278 KZH43 RS10085 WP 000649974.1      AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEAGA.KDVKTFSLVR   220
NTDB id 237 SPD RS10760 WP 000649974.1        AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEAGA.KDVKTFSLVR   220
NTDB id 203 SPR RS10245 WP 000649974.1        AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEAGA.KDVKTFSLVR   220
NTDB id 168 SP RS11270 WP 000649971.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSGVTIPKKILLIDDIYTTGATINRVKKLLEEAGA.KDVKTFSLVR   220
NTDB id 508 SM12261 RS09235 WP 000649953.1    AGFAYLDLLEKREERASSSKSRSERLETEFPFFIKSGVTIPKKILLIDDIYTTGTTINRVKKLLEEAGA.EDVKTFSLVR   220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1  AGFSFQELLEKREERASSSKNRSERLGTELPFFIKRGVTIPKKILLIDDIYTTGSTINRVKKLLEEAGA.EDVKTFSLVR   220
consensus                                     ***  ****!********!*!***!!!*****!**********!*!!!!*!!!!*!*******!*!*!*  **!**!*!*!

logo

NTDB id 109 BSU 35450 NP 391425.2             S   240
NTDB id 194035 BFM96 RS05080 WP 068991168.1   .   222
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