```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1077637 ACJED4 RS05445 WP 366967625.1  ..........................................................................................................  0
NTDB id 109 BSU 35450 NP 391425.2              MSNEAGGGIHKLICLLCDSQFSQDVTWRALFLLKPD.EKVCYSCRSKLKKITGHICPLCGRPQSVHAVCRDCEVWRTRIR  79
NTDB id 594 KW2 RS12255 WP 244878749.1         ..........................................................................................................  0
NTDB id 168 SP RS11270 WP 000649971.1          ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEGV  68
NTDB id 278 KZH43 RS10085 WP 000649974.1       ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEGV  68
NTDB id 237 SPD RS10760 WP 000649974.1         ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEGV  68
NTDB id 203 SPR RS10245 WP 000649974.1         ...........MKCLLCGQTMKTVLTFSSLLLLRNDDSCLCSDCDSTFERIGEENCPNCMKTE.LSTKCQDCQLWCKEGV  68
NTDB id 508 SM12261 RS09235 WP 000649953.1     ...........MKCLLCGQTMKAVLTFSSLLLLKNDASCLCLDCDSTFERIGEENCPNCMKTD.LSMKCQDCQLWCKEGV  68
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   ...........MKCLLCGQTMKAVLTFSSLLLLRNDVSCLCLDCDSTFERIGEENCPNCMKTA.LSTQCQDCQFWCKEGV  68
consensus                                                 *********** ************ **** ******************** ****************

logo
NTDB id 1077637 ACJED4 RS05445 WP 366967625.1  ......MNRSVYAYNDFMKDILARFKFRGDTALADLFKKDVQLAFKRSFSIKEPVLVPIPLSKESLKERGFNQSIMLASM  74
NTDB id 109 BSU 35450 NP 391425.2              DSLLLRQNRSVYTYNDMMKETLSRFKFRGDAEIINAFKSDFSSTFSKVYPDKHFVLVPIPLSKEREEERGFNQAHLLAEC  159
NTDB id 594 KW2 RS12255 WP 244878749.1         ................MKDYFSLYKFMGDYRLHEVFDSYFKNLSK......KIPLVPIPVSPKRLQERGFNQVTAFLKD  57
NTDB id 168 SP RS11270 WP 000649971.1          ....EVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA  141
NTDB id 278 KZH43 RS10085 WP 000649974.1       ....GVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA  141
NTDB id 237 SPD RS10760 WP 000649974.1         ....GVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA  141
NTDB id 203 SPR RS10245 WP 000649974.1         ....GVSHRAIFTYNQAMKDFFSRYKFDGDFLLRKVFASFLSEELKK...YKEYQFVVIPLSPDRYANRGFNQVEGLVEA  141
NTDB id 508 SM12261 RS09235 WP 000649953.1     ....EVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKK...YKEYQFVVIPLSPERLLERGFNQVEGLVEA  141
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   ....EVSHRAIFIYNQAMKDFFSRYKFDGDFLLRKVFASVLSEELKK...YKEYQFVVIPLSPERLLERGFNQVEGLVEA  141
consensus                                        ************!******!!*!!******!*********   ******!*!!*!***  *!!!!!*******

logo
NTDB id 1077637 ACJED4 RS05445 WP 366967625.1  LGGPILEPLIKVHQSKQSKKRKNERLHQQNFFQLRQANPIVLKDIILIDDIYTTGATVYHAAKILK.DAGAKSVSSFTLI  153
NTDB id 109 BSU 35450 NP 391425.2              LDRPSHHPLIRLNNEKQSKKKKTERLLSECIFDTKNN.SAEGMNIILIDDLYTTGATLHFAARCLLEKGKAASVSSFTLI  238
NTDB id 594 KW2 RS12255 WP 244878749.1         ..RTYLDLLEKEDTVRQSSLNREGRLSTTNPFKLKEG.EKIPQKIILIDDIYTTGTTFYHAIKTLK.KANPIEITTFSLC  133
NTDB id 168 SP RS11270 WP 000649971.1          AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSG.VTIPKKILLIDDIYTTGATINRVKKLLE.EAGAKDVKTFSLV  219
NTDB id 278 KZH43 RS10085 WP 000649974.1       AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSG.VTIPKKILLIDDIYTTGATINRVKKLLE.EAGAKDVKTFSLV  219
NTDB id 237 SPD RS10760 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSG.VTIPKKILLIDDIYTTGATINRVKKLLE.EAGAKDVKTFSLV  219
NTDB id 203 SPR RS10245 WP 000649974.1         AGFEYLDLLEKREERASSSKNRSERLGTELPFFIKSG.VTIPKKILLIDDIYTTGATINRVKKLLE.EAGAKDVKTFSLV  219
NTDB id 508 SM12261 RS09235 WP 000649953.1     AGFAYLDLLEKREERASSSKSRSERLETEFPFFIKSG.VTIPKKILLIDDIYTTGTTINRVKKLLE.EAGAEDVKTFSLV  219
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   AGFSFQELLEKREERASSSKNRSERLGTELPFFIKRG.VTIPKKILLIDDIYTTGSTINRVKKLLE.EAGAEDVKTFSLV  219
consensus                                      *** ****!********!******!!*****!***** ******!*!!!!*!!!!*!*******!* *********!*!*

logo
NTDB id 1077637 ACJED4 RS05445 WP 366967625.1  RS   155
NTDB id 109 BSU 35450 NP 391425.2              RS   240
NTDB id 594 KW2 RS12255 WP 244878749.1         R.   134
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 508 SM12261 RS09235 WP 000649953.1     R.   220
NTDB id 536 SMSK321 RS0102865 WP 000649958.1   R.   220
consensus                                      !
```

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