```
logo

NTDB id 286 KZH43 RS05975 WP 000782664.1     MKMKQISDTTLKITISLEDLMDRGMEIADFLVPQEKTEEFFYAILDELEMPDSFLDTGMLSFRVTPKPDKVDVFVTKSKIDQNLD    85
NTDB id 285 SPD RS06395 WP 000782664.1       MKMKQISDTTLKITISLEDLMDRGMEIADFLVPQEKTEEFFYAILDELEMPDSFLDTGMLSFRVTPKPDKVDVFVTKSKIDQNLD    85
NTDB id 284 SPR RS06100 WP 000782664.1       MKMKQISDTTLKITISLEDLMDRGMEIADFLVPQEKTEEFFYAILDELEMPDSFLDTGMLSFRVTPKPDKVDVFVTKSKIDQNLD    85
NTDB id 283 SP RS06670 WP 000782668.1        MKMKQISDTTLKITISLEDLMDRGMEIADFLVPQEKTEEFFYAILDELEMPDSFLDTGMLSFRVTPKPDKVDVFVTKSKIDQNLD    85
NTDB id 299 STER RS01050 WP 011680667.1      MEMKQISETTLKIMITMEDLEEHGMELKDFLIPQEKTEEFFYTVMDELDLPDNFKNSGMLSFRVTPRKDRVDVFVTKSDLKEDLD    85
NTDB id 331 STU RS10485 WP 011225365.1       MEMKQINETTLKIMITMEDLEEHGMELKDFLIPQEKTEEFFYTVMDELDLPDNFKNSGMLSFRVTPRKDRVDVFVTKSDLKEALD    85
NTDB id 82826 H7676 RS01345 WP 002986029.1  MEMKQISETTLKITISMDDLEERGMELKDFLIPQEKTEEFFYSVMDELDLPDNFKDSGMLSFRVTPRKDRLDVFVTKSEINKDIN    85
NTDB id 380 SMU RS01250 WP 002262749.1       MEMKQISETTLKITISMEDLEERGMELKDFLIPQEKTEEFFYTVMDELDLPENFKDSGMLSFRVTPRNDRIDVFVTKSEINKNLN    85
consensus                                    ! !!!!**!!!!!*!***!! **!!!* !!!*!!!!!!!!!! **!!!**!* ! **!!!!!!!!!* !**!!!!!!! *  ***

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1     FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQ...........EQAEQEAESKKEPYIYYILSF   159
NTDB id 285 SPD RS06395 WP 000782664.1       FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQ...........EQAEQEAESKKEPYIYYILSF   159
NTDB id 284 SPR RS06100 WP 000782664.1       FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQ...........EQAEQEAESKKEPYIYYILSF   159
NTDB id 283 SP RS06670 WP 000782668.1        FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEVKEEEQ...........EQAEQEAESKKEPYIYYILSF   159
NTDB id 299 STER RS01050 WP 011680667.1      FNDLSDM...EDYSGLSPEEFLKALEDNFMDK..GDIEAHHKLEEHDKTLKEVDETMTE.....PAKEVAEETIREDYTHYVLAF   160
NTDB id 331 STU RS10485 WP 011225365.1       FNDLSDM...EDYSGLSPEEFLKALEDNFMDK..GDIEAHHKLEEHDKTLKEVDETMTE.....PAKEVAEETIREDYTHYVLAF   160
NTDB id 82826 H7676 RS01345 WP 002986029.1  LEDLAEF...GDMSQMTPEDFFKSLEQSMREK..GDVKAHEKLEKIEEIMEDVVEATLANQSEAADPSTNHESEPLDYVHYVLDF   165
NTDB id 380 SMU RS01250 WP 002262749.1       LEDLSDF...DDISKMSPEDFFNTLEETMREK..GDAAALDKLAEIEKREEEK...........TQQEKGETKEKRDYVHFVLDF   154
consensus                                    **!!***   *** ***!**!***!! ** *!   !**!*  !* ** ****            * *   ** ** !* **! !

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1     AKLADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQK   243
NTDB id 285 SPD RS06395 WP 000782664.1       AKLADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQK   243
NTDB id 284 SPR RS06100 WP 000782664.1       AKLADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQK   243
NTDB id 283 SP RS06670 WP 000782668.1        AKLADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQK   243
NTDB id 299 STER RS01050 WP 011680667.1      SDFDQVVTFAQGLKNVSVEGSEFYKLGDVYYMTILLYLADEPDYYANNMYARFLEYANVADRTRPYLQEHATILMEEDALPVLQA   245
NTDB id 331 STU RS10485 WP 011225365.1       SDFDQVVTFAQGLKNVSVEGSEFYKLGDVYYMTILLYLADEPDYYANNMYARFLEYANVADRTRPYLQEHATILMEEDALPVLQA   245
NTDB id 82826 H7676 RS01345 WP 002986029.1  STITEAVAFAKTI.DFSIEASELYKGSNCYHMTILLDVQQQPSYFANVMYARLIEHANPGSKTRAYLQEHGLQLMLDGAVEQLQK   249
NTDB id 380 SMU RS01250 WP 002262749.1       PNIQQVINFAKTV.DYDVEASELFKESDAYHMTVLLNLEDKPDYYADLMFARMLEHAGRGTKTRAYLLEHGVQLIKADALQELQM   238
consensus                                      * ****!!***   ***! !!**!* * !**!*!***** !* *   * !!* !*!   * *!  !*! * *!*  *!* *!!*

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1     IG..   245
NTDB id 285 SPD RS06395 WP 000782664.1       IG..   245
NTDB id 284 SPR RS06100 WP 000782664.1       IG..   245
NTDB id 283 SP RS06670 WP 000782668.1        IG..   245
NTDB id 299 STER RS01050 WP 011680667.1      TKWS   249
NTDB id 331 STU RS10485 WP 011225365.1       TKWS   249
NTDB id 82826 H7676 RS01345 WP 002986029.1  IELG   253
NTDB id 380 SMU RS01250 WP 002262749.1       IG..   240
consensus                                    **
```

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