```
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 140369 RDF RS00940 WP 000425371.1  MEMKQISETTLKITISMEDLEDRGMELKDFLIPQEKTEEFFYSVMDELDLPENFKNSGMLSFRVTPKKDRIDVFVTKSELSKDLN   85
NTDB id 380 SMU RS01250 WP 002262749.1     MEMKQISETTLKITISMEDLEERGMELKDFLIPQEKTEEFFYTVMDELDLPENFKDSGMLSFRVTPRNDRIDVFVTKSEINKNLN   85
consensus                                  ! !!!!**!!!!!*!**!!! **!!!* !!!*!!!!!!!!!! **!!!**!* ! **!!!!!!!!!* !**!!!!!!! *  *!*

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1   FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQEQ.........AEQEAESKKEPYIYYILSFAK   161
NTDB id 285 SPD RS06395 WP 000782664.1     FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQEQ.........AEQEAESKKEPYIYYILSFAK   161
NTDB id 284 SPR RS06100 WP 000782664.1     FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEAKEEEQEQ.........AEQEAESKKEPYIYYILSFAK   161
NTDB id 283 SP RS06670 WP 000782668.1      FEDLSDLPDMEELAQMSPDEFIKTLEKSIADKTKDDIEAIQSLEQVEVKEEEQEQ.........AEQEAESKKEPYIYYILSFAK   161
NTDB id 299 STER RS01050 WP 011680667.1    FNDLSDM...EDYSGLSPEEFLKALEDNFMDKG..DIEAHHKLEEHDKTLKEVDETMTEP...AKEVAEETIREDYTHYVLAFSD   162
NTDB id 331 STU RS10485 WP 011225365.1     FNDLSDM...EDYSGLSPEEFLKALEDNFMDKG..DIEAHHKLEEHDKTLKEVDETMTEP...AKEVAEETIREDYTHYVLAFSD   162
NTDB id 140369 RDF RS00940 WP 000425371.1  LEELADL...GDISKMSPEDFFKTLEQSMLEKG..DTDAHAKLAEIENMMDKATQEVVEENVSEEQPEKEVETIGYVHYVFDFDN   165
NTDB id 380 SMU RS01250 WP 002262749.1     LEDLSDF...DDISKMSPEDFFNTLEETMREKG..DAAALDKLAEIEKREEEKTQQ.........EKGETKEKRDYVHFVLDFPN   156
consensus                                  ***!*!*   ***  *!!**!***!! ** *!   !**!*  !* ** **** **          * * ** ** !* *** !

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1   LADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQKIG   245
NTDB id 285 SPD RS06395 WP 000782664.1     LADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQKIG   245
NTDB id 284 SPR RS06100 WP 000782664.1     LADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQKIG   245
NTDB id 283 SP RS06670 WP 000782668.1      LADLVAFAKTV.TFEMETSELYKMNERYYLTILVDIENHPSPYPAWLLARMREFADDSDISRSVLQEYGQVLMSHDAVLNLQKIG   245
NTDB id 299 STER RS01050 WP 011680667.1    FDQVVTFAQGLKNVSVEGSEFYKLGDVYYMTILLYLADEPDYYANNMYARFLEYANVADRTRPYLQEHATILMEEDALPVLQATK   247
NTDB id 331 STU RS10485 WP 011225365.1     FDQVVTFAQGLKNVSVEGSEFYKLGDVYYMTILLYLADEPDYYANNMYARFLEYANVADRTRPYLQEHATILMEEDALPVLQATK   247
NTDB id 140369 RDF RS00940 WP 000425371.1  IEAVVRFSQTI.DFPIEASELYKNGKGYHMTILLDLENQPSYFANLMYARMLEHANVGTKTRAYLKEHSIQLIHDDAISKLQMIE   249
NTDB id 380 SMU RS01250 WP 002262749.1     IQQVINFAKTV.DYDVEASELFKESDAYHMTVLLNLEDKPDYYADLMFARMLEHAGRGTKTRAYLLEHGVQLIKADALQELQMIG   240
consensus                                  *  ** !****  ***! !!**!* * !**!*!***** !* *   * !!* !*!   * *!  !*! * *!*  !!*  !! **

logo

NTDB id 286 KZH43 RS05975 WP 000782664.1   ..   245
NTDB id 285 SPD RS06395 WP 000782664.1     ..   245
NTDB id 284 SPR RS06100 WP 000782664.1     ..   245
NTDB id 283 SP RS06670 WP 000782668.1      ..   245
NTDB id 299 STER RS01050 WP 011680667.1    WS   249
NTDB id 331 STU RS10485 WP 011225365.1     WS   249
NTDB id 140369 RDF RS00940 WP 000425371.1  MG   251
NTDB id 380 SMU RS01250 WP 002262749.1     ..   240
consensus
```

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