```
logo

NTDB id 372 SMU RS05280 WP 002262198.1        MNYKEKKILILDDNPEILEMVQESLNIAGFNNLTGVQSKKEALEQLGKRSFDLAILDIMLPDGSGFEVLREIRKTSTIPV   80
NTDB id 413 AAK55817.1 141..845( )            ....MKKILIVDDEKPISDIIKFNMTKEGYEVVTAF.NGREALEQFEAEQPDIIILDLMLPEIDGLEVAKTIRKTSSVPI   75
NTDB id 206848 BSR19 RS04945 WP 002884978.1  ....MKKILVVDDERPISDIIKFNLTKEGYEVVTAF.DGREALEQFEAEKPDLVILDLMLPELDGLEVAKEIRKTSHTPI   75
NTDB id 374 SMU RS06885 WP 002262930.1        ....MKKILIVDDEKPISDIIKFNLAKEGYDTITAF.DGREALSKYEEENPDLIILDLMLPELDGLEVAKEVRKNSHVPI   75
NTDB id 606 V4T04 RS01910 WP 003130756.1      ..MTSKKILIIEDEKNLARFVSLELEHEGYATEIKD.NGRSGLEEATSKDYDLILLDLMLPELDGFEVARRLRKEKDTPI   77
NTDB id 471 HSISS4 RS01430 WP 002883757.1     ...MSKRILIVEDEKNLARFVSLELQHEGYDVVTAD.NGREGLEMALEKDFDLILLDLMLPEMDGFEVTRRLQQEKDTYI   76
consensus                                       !*!!***!** * ***   *  *!** ***   ****!*       !***!!*!!!***! !!** *** *   **

logo

NTDB id 372 SMU RS05280 WP 002262198.1        LFLSAVSDIEKQYQGFELGADDYIVKPFRPKELELRILSILKRAYPEKDDT..........LILPTCQVNFSQALITKGE   150
NTDB id 413 AAK55817.1 141..845( )            LMLSAKDSEFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQPMPVDGQ.EADSKPQPIQIGDLEIVPDAYVAKKYG   154
NTDB id 206848 BSR19 RS04945 WP 002884978.1  IMLSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARIKAHLRRTETIETAAEESSNSGKQEISIGELIIVPDAFVAKKRG   155
NTDB id 374 SMU RS06885 WP 002262930.1        IMLSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAVAEENASGIPEIIIGDLQILPDAFVAKKRG   155
NTDB id 606 V4T04 RS01910 WP 003130756.1      IMMTARDSTMDRVAGLDIGADDYITKPFAIEELLARVRAFFRREEHGHAV.ERAENTS.....FRDLVIDKTNRTVHRGK   151
NTDB id 471 HSISS4 RS01430 WP 002883757.1     MMMTARDSIMDIVAGLDRGADDYIVKPFAIEELLARIRATFRRQDIEAAKNAPAKAST.....YRDLKLDVQNRTVVRGD   151
consensus                                     ****!***  *** !***!!!!!**!!!  *!!**!*** **! *          *    * * ** *     *  *

logo

NTDB id 372 SMU RS05280 WP 002262198.1        LEIQLTAKEYSILKVLYNNQNRIVTFDQLLEKVWGLQYQGYENTMMAHIRKIRQKIEANPSKPECLLTVKGLGYKLKVS.   229
NTDB id 413 AAK55817.1 141..845( )            EELDLTHREFELLYHLASHTGQVITREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMRNNA   234
NTDB id 206848 BSR19 RS04945 WP 002884978.1  NEVELTHREFELLFHLATHMGQVMTREHLLETVWGYDYFGDVRTVDVTIRRLREKIEDTPSRPEYILTRRGVGYYMKNYD   235
NTDB id 374 SMU RS06885 WP 002262930.1        TEVELTHREFELLHHLATHTGQVMTREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMKSYD   235
NTDB id 606 V4T04 RS01910 WP 003130756.1      KVIDLTRREYDLLLTLMQNVGDVVTREHLVSQVWGYEEGTETNVVDVYIRYLRNKI.DVEGQDSYIQTVRGLGYVMRERK   230
NTDB id 471 HSISS4 RS01430 WP 002883757.1     EAIPLTKREFDLLNTLLSNMNQVMTREELLLQVWKYDDAIETNVVDVYIRYLRGKI.DVPGKESYIQTVRGMGYVIREK.   229
consensus                                      ***!! *!****!  ! *  ****!***!** !!**** **  **** *!**! !!** ********! *!*!! **
```

<0

```
logo

NTDB id 372 SMU RS05280 WP 002262198.1        .   229
NTDB id 413 AAK55817.1 141..845( )            *   234
NTDB id 206848 BSR19 RS04945 WP 002884978.1   .   235
NTDB id 374 SMU RS06885 WP 002262930.1        .   235
NTDB id 606 V4T04 RS01910 WP 003130756.1      .   230
NTDB id 471 HSISS4 RS01430 WP 002883757.1     .   229
consensus
```

X non conserved

X similar

X $\geq$ 50% conserved