logo

```
NTDB id 372 SMU RS05280 WP 002262198.1        MNYKEKKILILDDNPEILEMVQESLNIAGFNNLTGVQSKKEALEQLGKRSFDLAILDIMLPDGSGFEVLREIRKTSTIPV   80
NTDB id 374 SMU RS06885 WP 002262930.1        ....MKKILIVDDEKPISDIIKFNLAKEGYDTITAF.DGREALSKYEEENPDLIILDLMLPELDGLEVAKEVRKNSHVPI   75
NTDB id 43368 SA27298 RS03210 WP 003025150.1  ....MKKILVVDDEKPISDIIKFNMVKEGYEVVTAF.DGREALEMFEAERPDILILDLMLPEMDGLEVARTIRKTSNVPI   75
NTDB id 413 AAK55817.1 141..845( )            ....MKKILIVDDEKPISDIIKFNMTKEGYEVVTAF.NGREALEQFEAEQPDIIILDLMLPEIDGLEVAKTIRKTSSVPI   75
NTDB id 471 HSISS4 RS01430 WP 002883757.1     ...MSKRILIVEDEKNLARFVSLELQHEGYDVVTAD.NGREGLEMALEKDFDLILLDLMLPEMDGFEVTRRLQQEKDTYI   76
NTDB id 606 V4T04 RS01910 WP 003130756.1      ..MTSKKILIIEDEKNLARFVSLELEHEGYATEIKD.NGRSGLEEATSKDYDLILLDLMLPELDGFEVARRLRKEKDTPI   77
consensus                                          !*!!***!** * ***   *  *!** ***   ****!*       !***!!*!!!***! !!** *** * ***
```

logo

```
NTDB id 372 SMU RS05280 WP 002262198.1        LFLSAVSDIEKQYQGFELGADDYIVKPFRPKELELRILSILKRAYPEKDDT..........LILPTCQVNFSQALITKGE   150
NTDB id 374 SMU RS06885 WP 002262930.1        IMLSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAVAEENASGIPEIIIGDLQILPDAFVAKKRG   155
NTDB id 43368 SA27298 RS03210 WP 003025150.1  IVLSAKDSEFDKVIGLEIGADDYMTKPFSNRELQARVKAILRRTD.LTIENQ.EAEAAPTEIVIGDLQILTDAFVVKKHG   153
NTDB id 413 AAK55817.1 141..845( )            LMLSAKDSEFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQPMPVDGQ.EADSKPQPIQIGDLEIVPDAYVAKKYG   154
NTDB id 471 HSISS4 RS01430 WP 002883757.1     MMMTARDSIMDIVAGLDRGADDYIVKPFAIEELLARIRATFRRQDIEAAKNAPAKAS.....TYRDLKLDVQNRTVVRGD   151
NTDB id 606 V4T04 RS01910 WP 003130756.1      IMMTARDSTMDRVAGLDIGADDYITKPFAIEELLARVRAFFRREEHGHAV.ERAENT.....SFRDLVIDKTNRTVHRGK   151
consensus                                     ****!***  *** !***!!!!!**!!!  *!! *!*** **! *           *    * * ** *     ** *
```

logo

```
NTDB id 372 SMU RS05280 WP 002262198.1        LEIQLTAKEYSILKVLYNNQNRIVTFDQLLEKVWGLQYQGYENTMMAHIRKIRQKIEANPSKPECLLTVKGLGYKLKVS.   229
NTDB id 374 SMU RS06885 WP 002262930.1        TEVELTHREFELLHHLATHTGQVMTREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMKSYD   235
NTDB id 43368 SA27298 RS03210 WP 003025150.1  EELDLTHREFELLHHLATHIGQVMTREHLLETVWGYDYFGDVRTVDVTIRRLREKIEDIPSRPEYILTRRGVGYYMRNND   233
NTDB id 413 AAK55817.1 141..845( )            EELDLTHREFELLYHLASHTGQVITREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMRNNA   234
NTDB id 471 HSISS4 RS01430 WP 002883757.1     EAIPLTKREFDLLNTLLSNMNQVMTREELLQVWKYDDAIETNVVDVYIRYLRGKI.DVPGKESYIQTVRGMGYVIREK.   229
NTDB id 606 V4T04 RS01910 WP 003130756.1      KVIDLTRREYDLLLTLMQNVGDVVTREHLVSQVWGYEEGTETNVVDVYIRYLRNKI.DVEGQDSYIQTVRGLGYVMRERK   230
consensus                                      ***!! *!***!  ! *  ****!***!** !!**** **  **** *!**! !!** ********! *!*!! **
```

<0

logo

```
NTDB id 372 SMU RS05280 WP 002262198.1        .   229
NTDB id 374 SMU RS06885 WP 002262930.1        .   235
NTDB id 43368 SA27298 RS03210 WP 003025150.1  .   233
NTDB id 413 AAK55817.1 141..845( )            *   234
NTDB id 471 HSISS4 RS01430 WP 002883757.1     .   229
NTDB id 606 V4T04 RS01910 WP 003130756.1      .   230
consensus
```

X non conserved

X similar

X $\geq$ 50% conserved