```
logo

NTDB id 372 SMU RS05280 WP 002262198.1          MNYKEKKILILDDNPEILEMVQESLNIAGFNNLTGVQSKKEALEQLGKRSFDLAILDIMLPDGSGFEVLREIRKTSTIPV   80
NTDB id 413 AAK55817.1 141..845( )              ....MKKILIVDDEKPISDIIKFNMTKEGYEVVTAF.NGREALEQFEAEQPDIIILDLMLPEIDGLEVAKTIRKTSSVPI   75
NTDB id 42859 SPYKS030 RS07930 WP 002985645.1   ....MKKILIVDDEKPISDIIKFNLTKEGYDIVTAF.DGREAVTIFEEEKPDLIILDLMLPELDGLEVAKEIRKTSHVPI   75
NTDB id 374 SMU RS06885 WP 002262930.1          ....MKKILIVDDEKPISDIIKFNLAKEGYDTITAF.DGREALSKYEEENPDLIILDLMLPELDGLEVAKEVRKNSHVPI   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          LFLSAVSDIEKQYQGFELGADDYIVKPFRPKELELRILSILKRAYPEKDD...........TLILPTCQVNFSQALITKG   149
NTDB id 413 AAK55817.1 141..845( )              LMLSAKDSEFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQPMPV..DGQEADSKPQPIQIGDLEIVPDAYVAKKY   153
NTDB id 42859 SPYKS030 RS07930 WP 002985645.1   IMLSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTETIETAVAEENASSGTQELTIGNLQILPDAFVAKKH   155
NTDB id 374 SMU RS06885 WP 002262930.1          IMLSAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAVAEENA.SGIPEIIIGDLQILPDAFVAKKR   154
NTDB id 471 HSISS4 RS01430 WP 002883757.1       MMMTARDSIMDIVAGLDRGADDYIVKPFAIEELLARIRATFRRQDIEAAKNAPA......KASTYRDLKLDVQNRTVVRG   150
NTDB id 606 V4T04 RS01910 WP 003130756.1        IMMTARDSTMDRVAGLDIGADDYITKPFAIEELLARVRAFFRREEHGHAV.ERA......ENTSFRDLVIDKTNRTVHRG   150
consensus                                       ****!***  *** !***!!!!!**!!!  *!!**!*** **! *                 * * ** *     *  *

logo

NTDB id 372 SMU RS05280 WP 002262198.1          ELEIQLTAKEYSILKVLYNNQNRIVTFDQLLEKVWGLQYQGYENTMMAHIRKIRQKIEANPSKPECLLTVKGLGYKLKVS   229
NTDB id 413 AAK55817.1 141..845( )              GEELDLTHREFELLYHLASHTGQVITREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMRNN   233
NTDB id 42859 SPYKS030 RS07930 WP 002985645.1   GQEVELTHREFELLHHLANHMGQVMTREHLLEIVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMKSY   235
NTDB id 374 SMU RS06885 WP 002262930.1          GTEVELTHREFELLHHLATHTGQVMTREHLLETVWGYDYFGDVRTVDVTVRRLREKIEDTPSRPEYILTRRGVGYYMKSY   234
NTDB id 471 HSISS4 RS01430 WP 002883757.1       DEAIPLTKREFDLLNTLLSNMNQVMTREELLLQVWKYDDAIETNVVDVYIRYLRGKI.DVPGKESYIQTVRGMGYVIREK   229
NTDB id 606 V4T04 RS01910 WP 003130756.1        KKVIDLTRREYDLLLTLMQNVGDVVTREHLVSQVWGYEEGTETNVVDVYIRYLRNKI.DVEGQDSYIQTVRGLGYVMRER   229
consensus                                         ***!! *!***!  !    ****!***!** !!**** **  **** *!**! !!** ********! *!*!! **
```

<0

```
logo

NTDB id 372 SMU RS05280 WP 002262198.1          ..   229
NTDB id 413 AAK55817.1 141..845( )              A*   234
NTDB id 42859 SPYKS030 RS07930 WP 002985645.1   D.   236
NTDB id 374 SMU RS06885 WP 002262930.1          D.   235
NTDB id 471 HSISS4 RS01430 WP 002883757.1       ..   229
NTDB id 606 V4T04 RS01910 WP 003130756.1        K.   230
consensus
```

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