


```
NTDB id 381 SMU RS09890 WP 002262650.1        MNNTKSHPFLKWFIPFLVIFLTFILGVISTLTFNWITGNKSFSNNGK..TTVSNVIYDTKSNTTKAVKNVKNTVVSVINYQKTDN   83
NTDB id 425 SGO RS10525 WP 012131081.1        .MKNSSNFFKKTLQVFIVLLVGFIGGVAGTWGFSYFSTPHSATNNNQKTATTVTTSYKNSNSTTEAVDKVKDAVVSVITYSESNS   84
NTDB id 256 KZH43 RS10270 WP 000681597.1      .MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVN.NSNNNSTITQTAYKNENSTTQAVNKVKDAVVSVITYSANRQ   83
NTDB id 215 SPD RS10945 WP 000681597.1        .MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVN.NSNNNSTITQTAYKNENSTTQAVNKVKDAVVSVITYSANRQ   83
NTDB id 181 SPR RS10425 WP 000681597.1        .MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVN.NSNNNSTITQTAYKNENSTTQAVNKVKDAVVSVITYSANRQ   83
NTDB id 145 SP RS11450 WP 000681597.1         .MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVN.NSNNNSTITQTAYKNENSTTQAVNKVKDAVVSVITYSANRQ   83
NTDB id 539 SM12261 RS09395 WP 000681587.1    .MKHLKTFYKKGFQLLVVIVISFFSGALGSFSINQLTQKSTES.TSNNNSTITQTAYKNENSTTQAVNKVKDAVVSVITYSANRQ   83
consensus                                     *********!******!****!**!*****************  ******!*****!*****!!*!!**!!**!!!!!*!*****
```




```
NTDB id 381 SMU RS09890 WP 002262650.1        SYYNYDSGSQEKNKSEDGLGVYGEGSGVIYKKDGDSAYLVTNNHVVKDAEKLEIMMANGKKVVGKLVGSDTYSDLAVIKISSKYV   168
NTDB id 425 SGO RS10525 WP 012131081.1        DAIF.....DNNNSGNENDQVASEGSGVIYRKDKDYAYLVTNTHVINGAKKVDIRLADGNKVPGEIVGTDTYSDISVVRIPADKV   164
NTDB id 256 KZH43 RS10270 WP 000681597.1      NSVF.....GNDDTDTDSQRISSEGSGVIYKKNDKEAYIVTNNHVINGASKVDIRLSDGTKVPGEIVGADTFSDIAVVKISSEKV   163
NTDB id 215 SPD RS10945 WP 000681597.1        NSVF.....GNDDTDTDSQRISSEGSGVIYKKNDKEAYIVTNNHVINGASKVDIRLSDGTKVPGEIVGADTFSDIAVVKISSEKV   163
NTDB id 181 SPR RS10425 WP 000681597.1        NSVF.....GNDDTDTDSQRISSEGSGVIYKKNDKEAYIVTNNHVINGASKVDIRLSDGTKVPGEIVGADTFSDIAVVKISSEKV   163
NTDB id 145 SP RS11450 WP 000681597.1         NSVF.....GNDDTDTDSQRISSEGSGVIYKKNDKEAYIVTNNHVINGASKVDIRLSDGTKVPGEIVGADTFSDIAVVKISSEKV   163
NTDB id 539 SM12261 RS09395 WP 000681587.1    NSVF.....GNDDTDTDSQQISSEGSGVIYKKNDKEAYIVTNNHVINGASKVDIRLSDGTKVPGEIVGADTFSDIAVVKISSEKV   163
consensus                                     ****     **************!!!!!!!!!****!!*!!!*!!***!*!**!****!*!!*!**!!*!!*!!**!**!****!
```




```
NTDB id 381 SMU RS09890 WP 002262650.1        TTVAEFANSDKIKVGEPAIAIGSPLGSDYANSVTEGIVSSLSRTVTSQNENGETISTNAIQTDAAINPGNSGGALINIKGQVIGI   253
NTDB id 425 SGO RS10525 WP 012131081.1        KNVAEFGDSSKLTVGETAIAIGSPLGSDYANTVTQGIVSSLSRNVSSRSEDGQTIATQAIQTDAAINPGNSGGPLVNIQGQVIGI   249
NTDB id 256 KZH43 RS10270 WP 000681597.1      TTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGIVSSLNRNVSLKSEDGQAISTKAIQTDTAINPGNSGGPLINIQGQVIGI   248
NTDB id 215 SPD RS10945 WP 000681597.1        TTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGIVSSLNRNVSLKSEDGQAISTKAIQTDTAINPGNSGGPLINIQGQVIGI   248
NTDB id 181 SPR RS10425 WP 000681597.1        TTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGIVSSLNRNVSLKSEDGQAISTKAIQTDTAINPGNSGGPLINIQGQVIGI   248
NTDB id 145 SP RS11450 WP 000681597.1         TTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGIVSSLNRNVSLKSEDGQAISTKAIQTDTAINPGNSGGPLINIQGQVIGI   248
NTDB id 539 SM12261 RS09395 WP 000681587.1    TTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGIVSSLNRNVSLKSEDGQAISTKAIQTDTAINPGNSGGPLINIQGQVIGI   248
consensus                                     **!!!!!**!*!**!!!*!!!!!!!!!!!*!!!*!!*!!!!!!*!*!*!***!*!**!*!*!!!!!*!!!!!!!!!!*!*!!*!!!!!!!
```




```
NTDB id 381 SMU RS09890 WP 002262650.1        NSSKIASSNNSNSGVAVEGMGFAIPSNDVVSIINQLEENGEVVRPALGISMANLSEASTSGRDTLKIPSDVTSGIVVLSTQSGMP   338
NTDB id 425 SGO RS10525 WP 012131081.1        TSSKIANTNN..GSTSVEGMGFAIPSNDVVNIIEQLEKNGKVIRPALGIQMVNLSSLSSSSSDRLKLPDNVKNGVVVRSTQTGMP   332
NTDB id 256 KZH43 RS10270 WP 000681597.1      TSSKIAT..N..GGTSVEGLGFAIPANDAINIIEQLEKNGKVTRPALGIQMVNLSNVSTSDIRRLNIPSNVTSGVIVRSVQSNMP   329
NTDB id 215 SPD RS10945 WP 000681597.1        TSSKIAT..N..GGTSVEGLGFAIPANDAINIIEQLEKNGKVTRPALGIQMVNLSNVSTSDIRRLNIPSNVTSGVIVRSVQSNMP   329
NTDB id 181 SPR RS10425 WP 000681597.1        TSSKIAT..N..GGTSVEGLGFAIPANDAINIIEQLEKNGKVTRPALGIQMVNLSNVSTSDIRRLNIPSNVTSGVIVRSVQSNMP   329
NTDB id 145 SP RS11450 WP 000681597.1         TSSKIAT..N..GGTSVEGLGFAIPANDAINIIEQLEKNGKVTRPALGIQMVNLSNVSTSDIRRLNIPSNVTSGVIVRSVQSNMP   329
NTDB id 539 SM12261 RS09395 WP 000681587.1    TSSKIAT..N..GGTSVEGLGFAIPANDAINIIEQLEKNGKVTRPALGIQMVNLSNINTSDIRRLNIPSNVTSGVVVRSVQSNMP   329
consensus                                     *!!!!!*  !  ****!!!*!!!!!*!!***!!*!!!*!!*!*!!!!!!*!*!!!*****!****!**!**!**!**!*!*!*!**!!
```


logo
NTDB id 381 SMU RS09890 WP 002262650.1 ADGKLKKYDVITEIDGKKVASISDLQSILYKHKKGDKIKLTFYREKDKQTVEIQLTKTSQDLNH. 402
NTDB id 425 SGO RS10525 WP 012131081.1 ADGKLEKYDVITKIDDTEISSASDIQSALYKHSINEEIKVTYYRDGKEQTTTIKLTKSTDDLSSE 397
NTDB id 256 KZH43 RS10270 WP 000681597.1 ANGHLEKYDVITKVDDKEIASSTDLQSALYNHSIGDTIKITYYRNGKEETTSIKLNKSSGDLES. 393
NTDB id 215 SPD RS10945 WP 000681597.1 ANGHLEKYDVITKVDDKEIASSTDLQSALYNHSIGDTIKITYYRNGKEETTSIKLNKSSGDLES. 393
NTDB id 181 SPR RS10425 WP 000681597.1 ANGHLEKYDVITKVDDKEIASSTDLQSALYNHSIGDTIKITYYRNGKEETTSIKLNKSSGDLES. 393
NTDB id 145 SP RS11450 WP 000681597.1 ANGHLEKYDVITKVDDKEIASSTDLQSALYNHSIGDTIKITYYRNGKEETTSIKLNKSSGDLES. 393
NTDB id 539 SM12261 RS09395 WP 000681587.1 ANGHLEKYDVITKVDDKEIASSTDLQSALYNHSIGDTIKITYYRNGKEETTSIKLDKSSGDLES. 393
consensus
X non conserved
X similar
X ≥ 50% conserved