```
logo

NTDB id 414 AAK55818.1 838..2187( )      MLDLLKQT.IFTR.DFIFILLLLGFILVVTLLLLENRRDNIQLKQINQKVKDLIAGDYSKVLDMQGGSEITNITNNLNDL   78
NTDB id 301837 DSN71 RS04055 WP 001065469.1  MNNSAANIR.SFELALLFLLVFVAV..YFVYLAVRDFKMSKNIRLLNWKVRDLIAGNYSDSILIQGDADLVELGESLNDL   77
NTDB id 375 SMU RS06880 WP 002262929.1   MTNVFESSPLFLRILLAVLIILLFF..YFIFLNYREYKNNNQVKQLNAKVRSLITGHYTDKLKVEDNSDLSELVNNVNDL   78
consensus                                ! **  ** ** ** *********  ****! ***** * *****! !!**!!*! !** * *** ****** ***!!!

logo

NTDB id 414 AAK55818.1 838..2187( )      SEVIRLTQENLEQESKRLNSILFYMTDGVLATNRRGQIIMINDTAKKQLGLVKEDVLNRSILELLKIEENYELRDLITQS   158
NTDB id 301837 DSN71 RS04055 WP 001065469.1  SDVFRMAHDNLEQEKNRLASILTYMTDGVLATDRSGKIVMINETAQQQFNLAYDEALSMNIVDMLGSGSPYSFQDLVSKT   157
NTDB id 375 SMU RS06880 WP 002262929.1   SEVFRLTHENLAQEKNRLTSILSYMTDGVLATDRSGKITVINDMAQKQLNVTREQALECNILDILDD.DSYTYNDLITKT   157
consensus                                !*!*!****!!*!!**!! !!!*!!!!!!!!!*!*!*!**!!**!**!*** ****!  *!***!   * !***!!****

logo

NTDB id 414 AAK55818.1 838..2187( )      PELLLDSQDINGEYLNLRVRFALIRRESGFISGLVAVLHDTTEQEKEERERRLFVSNVSHELRTPLTSVKSYLEALDEGA   238
NTDB id 301837 DSN71 RS04055 WP 001065469.1  PEVVLNRRDENGEFVTLRIRFALNRRESGFISGLVAVSHDATEQEKEERERRLFVSNVSHELRTPLTSVKSYLEALDEGA   237
NTDB id 375 SMU RS06880 WP 002262929.1   PEIVLTRRDEYDEFITLRIRFALNRRESGFISGLIAVLHDATEQEKEERERRLFVSNVSHELRTPLTSVKSYLEALDDGA   237
consensus                                !!**!  **!***!**!!*!!!!!*!!!!!!!!!!*!!*!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!

logo

NTDB id 414 AAK55818.1 838..2187( )      LCETVAPDFIKVSLDETNRMMRMVTDLLHLSCIDNATSHLDVELINFTAFITFILNRFDKMKGQE..KEKKYELVRDYPI   316
NTDB id 301837 DSN71 RS04055 WP 001065469.1  LNEEVAPSFIKVSLDETNRMMRMISDLLSLSRIDNEVTHLDVEMTNFTAFMTSILNRFDQIRNQKTVTGKVYEIVRDYPL   317
NTDB id 375 SMU RS06880 WP 002262929.1   LTESVAPSFIKVSLDETNRMMRMITDLLSLSRIDNQTSHLDVELTNFTAFMNYILDRFDQIQSQQ.STNKVYEIIRDYPD   316
consensus                                ! !*!!!*!!!!!!!!!!!!!!!!!**!!!*!!*!!! **!!!!!**!!!!!**!!*!!!*** !    * !*!!**!!!!*

logo

NTDB id 414 AAK55818.1 838..2187( )      NSIWMEIDTDKMTQVVDNILNNAIKYSPDGGKITVRMKTTEDQMILSISDHGLGIPKQDLPRIFDRFYRVDRARSRAQGG   396
NTDB id 301837 DSN71 RS04055 WP 001065469.1  KSIWVEIDTDKMTQVIDNILNNAVKYSPDGGKITVNLRTTKTQMILSISDQGLGIPKKDLPLIFDRFYRVDKARSRQQGG   397
NTDB id 375 SMU RS06880 WP 002262929.1   KSVWIEIDTDKMTQVIDNILNNAIKYSPDGGKVTITMQTTDTQLILSISDQGLGIPKKDLPLIFDRFYRVDKARSRAQGG   396
consensus                                *!*!*!!!!!!!!!!!*!!!!!!!*!!!!!!!!*!* **!!**!*!!!!!!*!!!!!!*!!!*!!!!!!!!!!*!!!!*!!!

<0

logo

NTDB id 414 AAK55818.1 838..2187( )      TGLGLSIAKEIIKQHKGFIWAKSEYGKGSTFTIVLPYDKDAVKEEVWEDEVED*   449
NTDB id 301837 DSN71 RS04055 WP 001065469.1  TGLGLSIAKEIVKQHKGFIWAKSEYGKGSTFTIVLPYDKDAVTYEEWEDVED..   449
NTDB id 375 SMU RS06880 WP 002262929.1   TGLGLAIAKEIVKQHKGFIWANSEEGEGSTFTIVLPYENDNDAIDEWEEDEDES   450
consensus                                !!!!!*!!!!!!*!!!!!!!!!!*!!*!*!!!!!!!!!!!**!**  **!!*****
```

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