```
NTDB id 1012 ACIAD RS15185 WP 004923719.1    MKLDQLDKTPKESGQPKKKRMNVEKFFQQFNMLDMSNYGSWPLSVKITCWIFIFFLVCALGYFVVIRPQLDDIQTAQAQE   80
NTDB id 302004 DS737 RS01280 WP 005088515.1  MSQDELNDLNQEGAAVKKKKMTVEQFFQQFNTLDMNNYGSWPWSVKVTCWIFILLAVAALGYFVVIQKQLQTIANAEARE   80
NTDB id 1056 ABD1 RS15860 WP 000076101.1     MSQDELQELSLEQLSAKKKKFNLDKFLQQFNTLDMNNYGSWPISVKITCWIFIFFAVLALGYFIVIQPKLQAIDNAQAQE   80
consensus                                    !**!*!***  ! *  !!!******!*!!!!*!!!*!!!!!!*!!!*!!!!!!***! !!!!!*!!***!* ! *!*!*!
```

```
NTDB id 1012 ACIAD RS15185 WP 004923719.1    KNLLNEFREKQSKLRNLQQYQHQLEEMRASFNQQLTQLPKESEIPGLVEDINMTGVNSGLKFKNIRLENEVKQEFFIEQP  160
NTDB id 302004 DS737 RS01280 WP 005088515.1  QSLLNEFREKESKLRNLQQYQTQLQEMEANFNQQLEQLPKETEIPSLVEDMNLTGVNSGLKFKNIRLEKEVRQEFFIEQP  160
NTDB id 1056 ABD1 RS15860 WP 000076101.1     SNLLNEFREKDSKLRNLQQYQVQLQEMQANFNQQLEQLPKETEIPSLVEDINLTGVNSGLKFKNIRLEDEVKQEIFIEQP  160
consensus                                     *!!!!!!!!*!!!!!!!!!!! !!*!! !*!!!!!*!!!!!*!!!*!!!!*!*!!!!!!!!!!!!!!! !!*!!*!!!!!
```

```
NTDB id 1012 ACIAD RS15185 WP 004923719.1    ISIEATGDYHAFGAFVSGIAALPRIVTLHDFVIEAKQSK.EKTDIPEVDYAVKAKTYRYIGVDEQGNASAVQANTSTTTP  239
NTDB id 302004 DS737 RS01280 WP 005088515.1  ISLEATGDYHAFGAFATGIAALPRIVTLHDFIVEAKEDTQKKSDIPVVHYTVKAKTYRYVGADDQVDSTAVSGGQR....  236
NTDB id 1056 ABD1 RS15860 WP 000076101.1     IAIEATGDYHAFGAFVSSIAALPRIVTMHDFTVDVSPAKDNKSDIPVLNYSIKAKTYRYVGATDTSEQTGKAPAASASTN  240
consensus                                    !**!!!!!!!!!!!!!***!!!!!!!!!!*!!!*****  *  !*!!!** !**!!!!!!!*!**** * *** ** * **
```

```
NTDB id 1012 ACIAD RS15185 WP 004923719.1    AQGGTP   245
NTDB id 302004 DS737 RS01280 WP 005088515.1  ......   236
NTDB id 1056 ABD1 RS15860 WP 000076101.1     TTVQPK   246
consensus
```

X non conserved
X similar
X ≥ 50% conserved