```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  ......MNLEKAMELSHKLQSRHLLPIECQCTQSELEWLENQGFIHRTPAVDRVASGLICCRCGVSNKRYFALSPCETCK   74
NTDB id 108 BSU 35470 NP 391427.1              MNVPVEKNSSFSKELQQTLRSRHLLRTELSFSDEMIEWHIKNGYITAENSISINKRRYRCNRCGQTDQRYFSFYH..SSG   78
consensus                                      ****** !      !! * ! !!!!!* !* **   *!!*  *!*!* * *        !*!!! *  !!!    ****
```

```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  KDCVYCRSCIMLGKVSECGFLYEWTGPQKKETRRVELTWQGELSKGQKRASDRLVEAIQNKFDLLLVWAVCGAGKTEVLFH   154
NTDB id 108 BSU 35470 NP 391427.1              KNKLYCRSCVMMGRVSEEVPLYSWKEENESNWKSIKLTWDGKLSSGQQKAANVLIEAISKKEELLIWAVCGAGKTEMLFP   158
consensus                                      ! **!!!!!*!*!*!!!* *!! !  **    * * !!! ! !! !! *!   !*!!!  ! *!!*!!!!!!!!!!*!!
```

```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  GIKYALNNGMSVCIATPRTDVVLELEPRMRKAFQGLNISALYGGSSQRFQMAPLMIATTHQLMRYKNAFDVLIVDEVDAF   234
NTDB id 108 BSU 35470 NP 391427.1              GIESALNQGLRVCIATPRTDVVLELAPRLKAAFQGADISALYGGSDDKGRLSPLMISTTHQLLRYKDAIDVMIIDEVDAF   238
consensus                                      !!   !!!*!* !!!!!!!!!!!!!!! !!** !!!!  ! !!!!!!  *  * !!!! !!!!!*!!! ! !!*!*!!!!!!
```

```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  PYSMDERLQFAVLKSMKKTGVRIYLSATPSKKMQKDVARGQLEAIKIPLRFHQKPLPVPTFQWVGDWKKKLKRNRLPAST   314
NTDB id 108 BSU 35470 NP 391427.1              PYSADQTLQFAVQKARKKNSTLVYLSATPPKELKRKALNGQLHSVRIPARHHRKPLPEPRFVWCGNWKKKLNRNKIPPAV   318
consensus                                      !!! !  !!!!! !  !!    *!!!!!!*! * *   !!!* **!! !*! !!!! ! ! !*! !!!!! !!**!*
```

```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  MNWMHEHITKKKRVLLFVPSISTMKKVTHILQVQDVNVQGVSADDQERKQKVQHFRDHRYDVLVTTTILERGVTIQDVQV   394
NTDB id 108 BSU 35470 NP 391427.1              KRWIEFHVKEGRPVFLFVPSVSILEKAAACFKGVHCRTASVHAEDKHRKEKVQQFRDGQLDLLITTTILERGVTVPKVQT   398
consensus                                        !** !*   **! !!!!!*! * !  **    **    !*!*! *!! !!!*!!!*  !*!*!!!!!!!!!** !!
```

```
NTDB id 364840 BPGQ101 RS17300 WP 138279275.1  GVLGAESPIFTESALVQISGRAGRHPDFFNGDVYFFHFGLTRSMKQAKKHIVKMNNTAEKEFSEK   459
NTDB id 108 BSU 35470 NP 391427.1              GVLGAESSIFTESALVQIAGRTGRHKEYADGDVIYFHFGKTKSMLDARKHIKEMNELAAKVECTD   463
consensus                                      !!!!!!!*!!!!!!!!!! !! !!!***  !!! *!!!! !*!! !*!!! !!  ! !  *
```

X non conserved
X similar
X ≥ 50% conserved