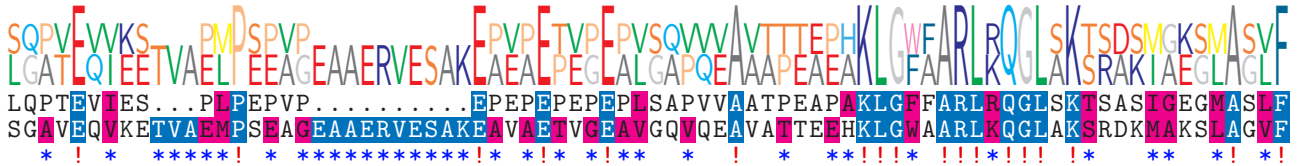
```
NTDB id 149035 AB691 RS20145 WP 041772016.1  MFGSNDDKKTPAEPGEKKGLFGWLRKKPQPASAEQPATEPQADSEPVE....QTVANVETP....AATPQHEEPRAVEAD   72
NTDB id 1118 NGFG RS11455 WP 003696286.1     ...................MFSFFRRKKKQETPALEEAQVQETAAKVESEVAQIVGNIKEDVESLAESVKGRAESAVETV   61
consensus                                    ********************! * !*!* * **  *   *!    *!!****! !*!*  *****! ** *  * !!!
```




```
NTDB id 149035 AB691 RS20145 WP 041772016.1  LQPTEVIES...PLPEPVP..........EPEPEPEPEPLSAPVVAATPEAPAKLGFFARLRQGLSKTSASIGEGMASLF  139
NTDB id 1118 NGFG RS11455 WP 003696286.1     SGAVEQVKETVAEMPSEAGEAAERVESAKEAVAETVGEAVGQVQEAVATTEEHKLGWAARLKQGLAKSRDKMAKSLAGVF  141
consensus                                      * ! *  *****! * ***********!* *!* *!**  *  !  *  **!!!* !!!*!!! !*   **  *! *!
```

```
NTDB id 149035 AB691 RS20145 WP 041772016.1  LGKKAIDDDLLDELETRLLTADVGVEATTALMQNLTRRVSRKELADSGALYTALQEELVGLLKPVEQPLAIDAGKRPYVI  219
NTDB id 1118 NGFG RS11455 WP 003696286.1     G.GGQIGEDLYEELETVLITGDMGMEATEYLMKDVRGRVSLKGLKDGNELRGALKEALYDLIKPLEKPLVLPETKEPFVI  220
consensus                                     *   ! *!! *!!!! !*!*!*!*!!!  *!  *  !!! ! ! !   !  !! ! !  !*!!*! !! **  ! !*!!
```

```
NTDB id 149035 AB691 RS20145 WP 041772016.1  LVVGVNGVGKTTTIGKLAKKLQLDGKKVMLAAGDTFRAAAVEQLQVWGERNGIPVIAQHTGADSASVIFDAVQAAKARGI  299
NTDB id 1118 NGFG RS11455 WP 003696286.1     MLAGINGAGKTTSIGKLAKYFQAQGKSVLLAAGDTFRAAAREQLQAWGGRNNVTVISQTTG.DSAAVCFDAVQAAKARGI  299
consensus                                    ** !*!! !!!!*!!!!!!  !  !! !*!!!!!!!!!!! !!!! !! !! **!! !*!!*!!! !*!!!!!!!!!!!!
```

```
NTDB id 149035 AB691 RS20145 WP 041772016.1  DVLIADTAGRLHTKDNLMEELKKVRRVMGKLDESAPHEVLLVLDAGTGQNAINQTRQFNQAVELTGLALTKLDGTAKGGV  379
NTDB id 1118 NGFG RS11455 WP 003696286.1     DIVLADTAGRLPTQLHLMEEIKKVKRVLQKAIPGAPHEIIVVLDANIGQNAVNQVKAFDDALGLTGLIVTKLDGTAKGGI  379
consensus                                    !***!!!!!!! !  *!!!!*!!!*!!* !  * !!!!***!!!!  !!!!*!! * !  !* !!!! *!!!!!!!!!!*
```

```
NTDB id 149035 AB691 RS20145 WP 041772016.1  IFALAKQFGTPIRYIGVGEGIDDLRTFEADAFVKALFAQREDA   422
NTDB id 1118 NGFG RS11455 WP 003696286.1     LAALASDRPVPVRYIGVGEGIDDLRPFDARAFVDALLD.....   417
consensus                                    * !!!   * !*!!!!!!!!!!!!!*!*! !!! !!  *****
```

X non conserved
X similar
X ≥ 50% conserved