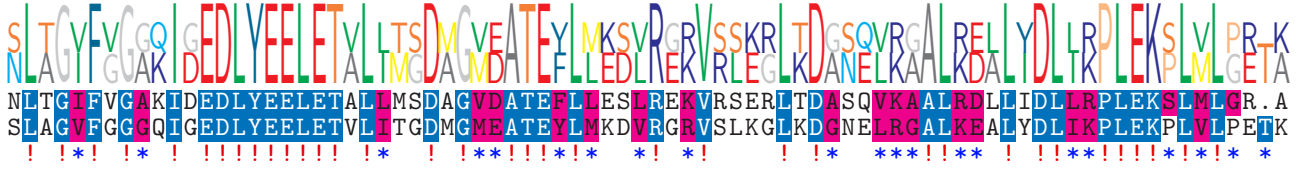
```
NTDB id 58851 BRPE64 RS01125 WP 016344156.1  MFSFFKRFKKPADGPLDTPQDESAEALDDEELSDDELERQALAAEAPPEAPPVA..AREKAESAAPVPAQPVPAPAPAPS   78
NTDB id 1118 NGFG RS11455 WP 003696286.1     MFSFFRRKKKQETPALEEAQVQETAAKVESEVA.......QIVGNIKEDVESLAESVKGRAESAVETVSGAVE....QVK   69
consensus                                    !!!!!*! !!*  **!* *!     !  * !* ******* * *  *** ***!** * *!!!! * *  *!***** *
```

```
NTDB id 58851 BRPE64 RS01125 WP 016344156.1  APSAPAPAKPAAPPSQKAESAEESKEYWQGRTQSQWSRAPATDLASEEFVPPPEPDPAAKKSWLSRLRHGLSKT....SS  154
NTDB id 1118 NGFG RS11455 WP 003696286.1     ETVAEMPSEA.GEAAERVESAKEAVAETVGEAVG.............QVQEAVATTEEHKLGWAARLKQGLAKSRDKMAK  135
consensus                                     * !* !  *****  * !!! !       !    ************   *** * * *!  !  !!**!! !*****
```

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NTDB id 58851 BRPE64 RS01125 WP 016344156.1  NLTGIFVGAKIDEDLYEELETALLMSDAGVDATEFLLESLREKVRSERLTDASQVKAALRDLLIDLLRPLEKSLMLGR.A  233
NTDB id 1118 NGFG RS11455 WP 003696286.1     SLAGVFGGGQIGEDLYEELETVLITGDMGMEATEYLMKDVRGRVSLKGLKDGNELRGALKEALYDLIKPLEKPLVLPETK  215
consensus                                     ! !*! !* ! !!!!!!!!! !*  ! !**!!!*!*  *! *!    ! !*  ***!!** ! !!**!!!!*!*!* *
```

```
NTDB id 58851 BRPE64 RS01125 WP 016344156.1  QPLVMMIAGVNGAGKTTSIGKLAKHLQHFNQSVLLAAGDTFRAAAREQLTVWGERNNVTVIAQESGDAAAVIFDAVGAAR  313
NTDB id 1118 NGFG RS11455 WP 003696286.1     EPFVIMLAGINGAGKTTSIGKLAKYFQAQGKSVLLAAGDTFRAAAREQLQAWGGRNNVTVISQTTGDSAAVCFDAVQAAK  295
consensus                                     ! !*!*!!*!!!!!!!!!!!!!!!* !*   !!!!!!!!!!!!!!!!!!  !! !!!!!!! ! *!! !!!*!!!! !!*
```

```
NTDB id 58851 BRPE64 RS01125 WP 016344156.1  ARKIDVMMADTAGRLPTQLHLMEELRKVKRVIAKAMPDAPHEVLLVIDANTGQNALAQVKAFDDALGLTGLIVTKLDGTA  393
NTDB id 1118 NGFG RS11455 WP 003696286.1     ARGIDIVLADTAGRLPTQLHLMEEIKKVKRVLQKAIPGAPHEIIVVLDANIGQNAVNQVKAFDDALGLTGLIVTKLDGTA  375
consensus                                    !! !!***!!!!!!!!!!!!!!!!!**!!*!!* !!*! !!!!***!*!!! !!!!* !!!!!!!!!!!!!!!!!!!!!
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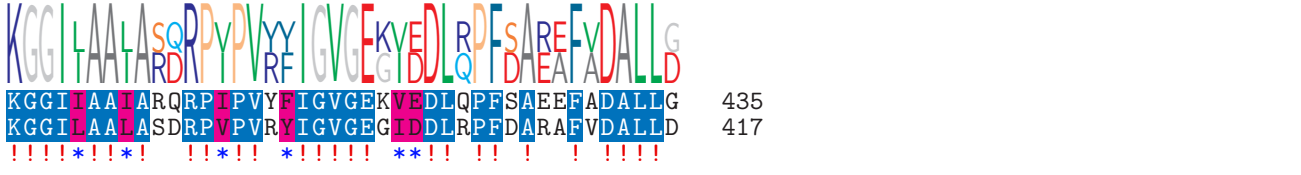


```
NTDB id 58851 BRPE64 RS01125 WP 016344156.1  KGGIIAAIARQRPIPVYFIGVGEKVEDLQPFSAEEFADALLG   435
NTDB id 1118 NGFG RS11455 WP 003696286.1     KGGILAALASDRPVPVRYIGVGEGIDDLRPFDARAFVDALLD   417
consensus                                    !!!!*!!*!  !!*!! *!!!!! **!! !! !  ! !!!!
```

X non conserved
X similar
X ≥ 50% conserved