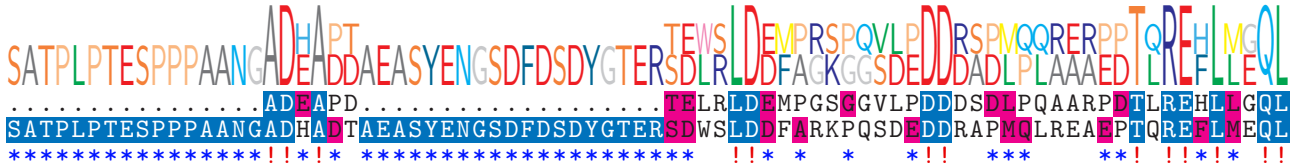
```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  MQNIVPMTRPALELRPGQHLTLTPQLQQSIRLLQLSSLELEAELSQALAENPLLERDEDPAREEQADPEREASVE.....  75
NTDB id 1425 RS RS02020 WP 011000369.1       .......MKQSLQLRLSQHLALTPQLQQSIRLLQLSTIELQQEVEQALTENPLLERENEWLDTSARI.GADGSVNALQSS  72
consensus                                    ******* ** ! !!* !!! !!!!!!!!!!!!!!!**!!  !* !!! !!!!!!!* **       *  **!! *****
```




```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  ................ADEAPD.................TELRLLDEMPGSGGVLPDDDSDLLPQAARPDTLREHLLGQL  120
NTDB id 1425 RS RS02020 WP 011000369.1       SATPLPTESPPPAANGADHADTAEASYENGSDFDSDYGTERSDWSLDDFARKPQSDEDDRAPMQLREAEPTQREFLMEQL  152
consensus                                    ****************!!*!* ********************  !!* *  *   *!!  ***    **! !!*!* !!
```

```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  ALTRAAPRDAALCGLLIDELDENGYLDSPLEEILTWLPAEVQADLDELRAALALLQSFDPAGIGARDMAECLQLQLRQPD  200
NTDB id 1425 RS RS02020 WP 011000369.1       APLKLSPRDKGLVIFLIESLDDEGYLTGSLDEILADLPAELEVELDELQAALRMLQSFDPAGIGARSAAECLTLQLQRLD  232
consensus                                    !* *  !!! *!*  !!* !!* !!!  *!*!!! !!!!* *!!!! !!! *!!!!!!!!!!!!  !!!! !!!  *!
```

```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  PARLPEAADAEVLACARRICAQHLPLLATGNVARVREAVQCDEAVVRAAHALIPRLEPRPGRAWTVPAADYAIPDVIVRR  280
NTDB id 1425 RS RS02020 WP 011000369.1       SPAKP.........LALTIVNQHLELLAARDYTRLKKALSVDDGELKAAHELIRSLAPFPGHAFGRAEADFVVPDVVVRK  303
consensus                                    **  !**********!  !* !!!*!!!     !** !* *!** **!!! !!* ! ! !!*!*  * !!* *!!!*!!*
```

```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  TRQGWQAVLNSAVVPRLHVNAVYAQVLGGQR.QGGNAGLQAQLQQARWMIRNVEQRFDTILRVAQAIVAHQQAFFTQGPA  359
NTDB id 1425 RS RS02020 WP 011000369.1       TAAGWMAQLNPDVMPRLRINDMYAQILRSSRGESGAANLQQKLQEARWLIKNIQQRFDTILRVSQAIVERQKSFFTHGEI  383
consensus                                    !  !! ! !!* !*!!!**! *!!!*!    !*  ! ! !!  !! !!!*!*!* !!!!!!!!! !!!! *!  !!!*!*
```

```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  AMRPLILKDIAGELDLHESTISRATTQKYMLTPFGTLELKRFFGAGVSTDGGDATSATAVQAVIRQMVADEDRAKPLSDS  439
NTDB id 1425 RS RS02020 WP 011000369.1       AMRPLVLREIADTLGLHESTISRVTTNKYMATPMGTFELKYFFGSHVSTETGGAASSTAIRALIKQLVGAEDPKNPLSDS  463
consensus                                    !!!!!*!**!!  ! !!!!!!!! !!*!!! !! !! !!! !!! *!!!* ! ! ! !!* !*!*!*!* !!*  !!!!!
```

```
NTDB id 165518 AVS51 RS00705 WP 023853393.1  QIMQRLADQGIVIARRTVAKYREALRIAPATLRKAHAAGR  479
NTDB id 1425 RS RS02020 WP 011000369.1       RIAELLGEQGFVVARRTVAKYREALKIPAVNLRKSL....  499
consensus                                     !   !**!! !*!!!!!!!!!!!!!*!**  !!! *****
```

X non conserved

X similar

X $\geq$ 50% conserved