```
logo
NTDB id 1111840 SPYH293 RS00325 WP 002986681.1  MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPKRYKELK   80
NTDB id 451 SPYM18 RS00325 WP 002986681.1       MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPKRYKELK   80
NTDB id 443 SPYM3 RS00325 WP 011054099.1        MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPKRYKELK   80
NTDB id 45 SMU RS00375 WP 002263400.1           MLKDFGKKIKSLRLEKGLTKEAVCLDESQLSTRQLTRIESGQSTPTLNKAVYIAGRLGVTLGYLTDGENVELPSRYKELK   80
NTDB id 555 STRINF RS01865 WP 174221231.1       ...........MREEKEISREEFCGDETELSVRQLARIELNQSIPNLSKASFIANRLGVKLGTLTDGDSLELPKRYKELK   69
consensus                                       ************!*!****!**!*!!**!!*!!!*!!!**!!*!*!*!***!!**!*!**!*!!!!***!!!*!!!!!!
```

```
logo
NTDB id 1111840 SPYH293 RS00325 WP 002986681.1  YLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKIIIDCLQATLDTLLSENTNFGIDLLQEYFNQIKTKVRFRQND  160
NTDB id 451 SPYM18 RS00325 WP 002986681.1       YLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKIIIDCLQATLDTLLSENTNFGIDLLQEYFNQIKTKVRFRQND  160
NTDB id 443 SPYM3 RS00325 WP 011054099.1        YLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKVAVDIIQAKFEVYQTGDINFGYSILKEFLPQLKRKSIYNLNE  160
NTDB id 45 SMU RS00375 WP 002263400.1           YLLLRTPTYGDQQRLAEKETYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSDNIDFGVGILNDYFDQILRKTNYQVND  160
NTDB id 555 STRINF RS01865 WP 174221231.1       YLLLRTPTYGDQVRLDRKNDYFDEIAEVFYDVTPEEERLIIDCLQSKFDVHFSEDVNFGEGILNDYFGQVNRKKVFTIND  149
consensus                                       !!*!!!!!!*!***!******!!!!****!!**!!!!****!**!*****  *****!!* *!**** !***!  * *!*
```

```
logo
NTDB id 1111840 SPYH293 RS00325 WP 002986681.1  LILLELYLAYLDIEGMDGQYSDKIFYDSLLDNLSEQFEQFELDELFIVNKIIIDISSLSLKNNRLDNLEKAIEMSQKIMA  240
NTDB id 451 SPYM18 RS00325 WP 002986681.1       LILLELYLAYLDIEGMDGQYSDKIFYDSLLDNLSEQFEQFELDELFIVNKIIIDISSLSLKNNRLDNLEKAIEMSQKIMA  240
NTDB id 443 SPYM3 RS00325 WP 011054099.1        LLLIDLYLIILVVSHFSDDIFDVQFYEEITESMLKQHNNLSLEDLFLLNNILLSCADTYIRLKMFGHLKETLQLSHFIMS  240
NTDB id 45 SMU RS00375 WP 002263400.1           LILIDLYFSCLTVSGLDSAIFDSRKYNQLLETLLKQVDCLPLEDLFVLNNVLLNNFGLLLELKKYDFVKQLIAVSNKIMD  240
NTDB id 555 STRINF RS01865 WP 174221231.1       LILIDLYFACLSSAKKFEGIYSLDFYDDLMKRLVNQKHVSPETD.LILNNVLLNNIDLAFQFKREYYIERVITISEKIMT  228
consensus                                       !*!**!!** ! * ***  ***  *!* *** ** ! **  *******!****    * ** ** * *** * *!**!!
```

```
logo
NTDB id 1111840 SPYH293 RS00325 WP 002986681.1  KIQDWNRMPILKLIEWKYFLIKQKDIIKAEQSFMKACLFAQMTADQYLENKLIQEWEKDVKSY.  303
NTDB id 451 SPYM18 RS00325 WP 002986681.1       KIQDWNRMPILKLIEWKYFLIKQKDIIKAEQSFMKACLFAQMTADQYLENKLIQEWEKDVKSY.  303
NTDB id 443 SPYM3 RS00325 WP 011054099.1        TIQDFQKMPMYCMYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLRGEWNKDIHYI.  303
NTDB id 45 SMU RS00375 WP 002263400.1           RTHDFQKKPIVNLLTWKHHLFVEKDYAEAKKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT  304
NTDB id 555 STRINF RS01865 WP 174221231.1       EIHDFQRRPILSLVEWKYYLKLKHDFALAEQSFTNATLFARLVGDTYLENKLKEEWQLDIDAVE  292
consensus                                       ***!****!** ***!!***   *!* *!****  * !!****** *!***!  !!**!*
```

X non conserved
X similar
X ≥ 50% conserved