```
logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1       MDKEKLKEIFNKHSALPEEVEEFDDGMVKEVITAGLLFCLK.....EVLDMDDSSFVSAFSRVEKTVSKLAKDYYIKLWT   75
NTDB id 44 SMU RS09085 WP 002263585.1          ........................................................MEEDFEIVFNKVKPIVWKLSRYYFIKMWT   29
NTDB id 442 SPYM3 RS08515 WP 011106595.1       ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAVFEKVKPIILKLKRHYYIQLWD   51
NTDB id 441 SPYM3 RS01385 WP 011106595.1       ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAVFEKVKPIILKLKRHYYIQLWD   51
NTDB id 1038094 ACB338 RS08155 WP 010921894.1 ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWD   51
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1  ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWD   51
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1  ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWD   51
NTDB id 450 SPYM18 RS08475 WP 011018214.1     ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWD   51
NTDB id 449 SPYM18 RS01395 WP 011018214.1     ........................MS..CCFFVVLFILGIVKKKRRLK.MSIETRAAFEKVKPIILKLKRHYYIQLWD   51
NTDB id 554 STRINF RS00370 WP 115283725.1     ........................................................MDFERYFQTVKPIILKLRRHYFVKLWD   27
consensus                                                                **  ******************** ********!**!*****!!***!****!*

logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1       YDDWRQEARIILYQLLERFPDLANDEEKLRIYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEISELGHMIPSQQMD.TAD  154
NTDB id 44 SMU RS09085 WP 002263585.1          REDWQQEGMLILHQLLREHPELEEDDTKLYIYFKTRFSNYIKDVLRQQESQKRRFNRMSYEEVGEIEHCLSSGGMQ.LDE  108
NTDB id 442 SPYM3 RS08515 WP 011106595.1       RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 441 SPYM3 RS01385 WP 011106595.1       RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 1038094 ACB338 RS08155 WP 010921894.1 RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1  RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1  RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 450 SPYM18 RS08475 WP 011018214.1     RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 449 SPYM18 RS01395 WP 011018214.1     RDDWLQEGHIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLW.LDD  130
NTDB id 554 STRINF RS00370 WP 115283725.1     YEDWIQEGRIVFFQLLEEHPDLLNNEGKCYSYFKTKFSNHVKDIIRHQESFKRKFNRMPYEEISDISHCVPQVFFFEVED  107
consensus                                     **!!*!!*****!!!***!*!********!!!!*!*****!**!*!!!*!!*!****!!!*****!******** ***

logo

NTDB id 582 DLJ51 RS00505 WP 002962720.1       YCALKEKLKELKQKLAPEDYAKILLLMRGGAFKGRSAFIKDIKVEFEDFDEDN   207
NTDB id 44 SMU RS09085 WP 002263585.1          YILFRDSLLAYKQGLSTEKQELFERLVAGEHFLGRQSMLKDLRKKLSDFKEK.   160
NTDB id 442 SPYM3 RS08515 WP 011106595.1       YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 441 SPYM3 RS01385 WP 011106595.1       YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 1038094 ACB338 RS08155 WP 010921894.1 YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1  YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1  YVAYQEVIASLENQLNSQERMQFQALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 450 SPYM18 RS08475 WP 011018214.1     YVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 449 SPYM18 RS01395 WP 011018214.1     YVAYQEVIASLENQLNSQERMQFKALIRGERFKGRRALLRKISPYFKEFAQQL   183
NTDB id 554 STRINF RS00370 WP 115283725.1     YVAYQDSLACLRRTLGREDRLKLEKVIRGERFEGKKAFLKSIELYFSDFRP..   158
consensus                                     !***********!**************!**!*!**************!****
```

X non conserved

X similar

X $\geq$ 50% conserved