```
logo

NTDB id 1059281 ACFKHK RS09180 WP 392461950.1  MLEVKNITGGYINIPVVKDVSFTVESGQLVGLIGLNGAGKSTTIKEIIGLLTPYQGEILIDGKSLVQDAENYRKKIGFIP   80
NTDB id 473 HSISS4 RS07770 WP 021143710.1      MLKLEKVTGGYANIPVLKDVTFEVADGELVGLIGLNGAGKSTTINEIIGLLTPYGGQIAIDGLTIQQDPASYRQKIGYIP   80
NTDB id 481 STER RS07730 WP 002951673.1        MLKLEKVTGGYANIPVLKDVTFEVADGELVGLIGLNGAGKSTTINEIIGLLTPYGGQIAIDGLTIQQDPASYRQKIGYIP   80
consensus                                      !!*****!!!!*!!!!*!!!*!*!**!*!!!!!!!!!!!!!!!!!*!!!!!!!!!!*!*!*!!!****!!***!!*!!!*!!

logo

NTDB id 1059281 ACFKHK RS09180 WP 392461950.1  ETPSLYEELTLKEHLEVVALAYDLTWDQAWSRVQGLLAVFRLDEKLDWFPVHFSKGMKQKVMIICAFMVEPSLLIVDEPF  160
NTDB id 473 HSISS4 RS07770 WP 021143710.1      ETPSLYEELTLREHLETVLMAYGLDVTEGMVRADKYLKLFRLDEKLDWFPTQFSKGMKQKVMIICAFIVNPSLFIVDEPF  160
NTDB id 481 STER RS07730 WP 002951673.1        ETPSLYEELTLREHLETVLMAYGLDVTEGMARADKYLKLFRLDEKLDWFPTQFSKGMKQKVMIICAFIVNPSLFIVDEPF  160
consensus                                      !!!!!!!!!!!*!!!!*!**!!*!****** !****!**!!!!!!!!!!!**!!!!!!!!!!!!!!!!*!*!!!*!!!!!!

logo

NTDB id 1059281 ACFKHK RS09180 WP 392461950.1  LGLDPVAISDLVNLLEEEKAKGTSILMSTHVLDSAEKMCDSFVILHQGQVRATGNLEELQHAFNMKGASLNEIYLALTQE  240
NTDB id 473 HSISS4 RS07770 WP 021143710.1      LGLDPLAISDLIELLAEEKAKGKAILMSTHVLDSAEKMCDRFVILHHGQVLAQGTLEELRQTFGDDSASLNDIYMQLTKG  240
NTDB id 481 STER RS07730 WP 002951673.1        LGLDPLAISDLIELLAEEKANGKSILMSTHVLDSAEKMCDRFVILHHGQILAQGTIDELRQTFGDSSASLNDIYMQLTKG  240
consensus                                      !!!!!*!!!!!**!!*!!!!*!**!!!!!!!!!!!!!!!!!*!!!!!*!!**!*!***!!***!** *!!!!*!!**!!**

logo

NTDB id 1059281 ACFKHK RS09180 WP 392461950.1  GVAR   244
NTDB id 473 HSISS4 RS07770 WP 021143710.1      ELS.   243
NTDB id 481 STER RS07730 WP 002951673.1        ELS.   243
consensus                                      ***
```

X non conserved
X similar
X $\geq$ 50% conserved