```
logo

NTDB id 165924 AV644 RS02345 WP 000912310.1  MLKIENVTGGYVNIPVLKNISFEVNDGELVGLIGLNGAGKSTTINEIIGILRPYQGDITIDGISLEADQELYRKKIGFIP   80
NTDB id 481 STER RS07730 WP 002951673.1      MLKLEKVTGGYANIPVLKDVTFEVADGELVGLIGLNGAGKSTTINEIIGLLTPYGGQIAIDGLTIQQDPASYRQKIGYIP   80
NTDB id 473 HSISS4 RS07770 WP 021143710.1    MLKLEKVTGGYANIPVLKDVTFEVADGELVGLIGLNGAGKSTTINEIIGLLTPYGGQIAIDGLTIQQDPASYRQKIGYIP   80
consensus                                    !!!*!*!!!!!*!!!!!!***!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!*!!!*!*!*!!!*****!***!!*!!!*!!

logo

NTDB id 165924 AV644 RS02345 WP 000912310.1  ETPSLYEELTLREHLETVAMAYDIATDEVMERAQKLLEMFRLTDKLDWFPMHFSKGMKQKVMIICAFVVSPSLFIVDEPF  160
NTDB id 481 STER RS07730 WP 002951673.1      ETPSLYEELTLREHLETVLMAYGLDVTEGMARADKYLKLFRLDEKLDWFPTQFSKGMKQKVMIICAFIVNPSLFIVDEPF  160
NTDB id 473 HSISS4 RS07770 WP 021143710.1    ETPSLYEELTLREHLETVLMAYGLDVTEGMVRADKYLKLFRLDEKLDWFPTQFSKGMKQKVMIICAFIVNPSLFIVDEPF  160
consensus                                    !!!!!!!!!!!!!!!!!!*!!!*****!*! !!*!*!**!!!**!!!!!!**!!!!!!!!!!!!!!!!*!*!!!!!!!!!!

logo

NTDB id 165924 AV644 RS02345 WP 000912310.1  LGLDPLAISDLINLLAEEKAKGKSILMSTHVLDSAEKMCDRFVILHKGEIRAVGTLEELRAIFGDSNANLNDIYIALTKE  240
NTDB id 481 STER RS07730 WP 002951673.1      LGLDPLAISDLIELLAEEKANGKSILMSTHVLDSAEKMCDRFVILHHGQILAQGTIDELRQTFGDSSASLNDIYMQLTKG  240
NTDB id 473 HSISS4 RS07770 WP 021143710.1    LGLDPLAISDLIELLAEEKAKGKAILMSTHVLDSAEKMCDRFVILHHGQVLAQGTLEELRQTFGDDSASLNDIYMQLTKG  240
consensus                                    !!!!!!!!!!!!*!!!!!!!!*!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!*!***!*!!**!!!**!!!**!*!!!!!**!!!*

logo

NTDB id 165924 AV644 RS02345 WP 000912310.1  V..   241
NTDB id 481 STER RS07730 WP 002951673.1      ELS   243
NTDB id 473 HSISS4 RS07770 WP 021143710.1    ELS   243
consensus                                    ***
```

X non conserved
X similar
X ≥ 50% conserved