```
logo

NTDB id 409095 GP482 RS00590 WP 039695964.1  MLKIENVTGGYINIPVLKNISFEVGDGELVGLIGLNGAGKSTTINEVIGLLTPYQGKITLDGLTLADNQAEYRKKIGFIP   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 409095 GP482 RS00590 WP 039695964.1  ETPSLYEELTLREHLETVLMAYGLDVTEGMARADKYLKLFRLDEKLDWFPTQFSKGMKQKVMIICAFIVNPSLFIVDEPF  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 409095 GP482 RS00590 WP 039695964.1  LGLDPLAISDLTDLLAQEKSKGKAILMSTHVLDAAEKMCDRFVILHHGQVRAMGNLAELRQAFGKEDASLNDIYMALTKE  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 409095 GP482 RS00590 WP 039695964.1  G..   241
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 ≥ 50% conserved