```
logo

NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYL   80
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  ..MAGNR.NEEMVYCSFCGKNQEEVKKIIA..GNGVFICNECVALSQEIIREEMAEEVL.....ADLAETPKPKELLDDIL   70
NTDB id 379 SMU RS04375 WP 002262816.1      ..MAGNRTNDVTVHCSFCGKNQDEVKKIIA..GNGVFICNECVELSQEIIREELAEEVL.....ADLSEVPKPKELLAIL   71
consensus                                     ***** *** * !!!!*****!****!*!   ****!!!**!!*****!!**!**!***     *** * **!!!!***!

logo

NTDB id 1475 Cj0275 YP 002343717.1          DRYVIGQDRAKKVFSVGVYNHYKRLFKAE.LQDDDTELFKSNILLVGPTGSGKTLLAQTLAKFLDVPIAICDATSLTEAG   159
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  NNYVVGQDRAKRALAVAVYNHYKRINFTESREDNDVDLQKSNILMIGPTGSGKTFLAQTLARSLNVPFAIADATSLTEAG   150
NTDB id 379 SMU RS04375 WP 002262816.1      DSYVIGQDRAKRALAVAVYNHYKRISFTESQDDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
consensus                                   * !!*!!!!!!****!*!!!!!!!* **!* *!*!**!*!!!!!**!!!!!!!*!!!!!!**!*!!*!!*!!!*!!!!!

logo

NTDB id 1475 Cj0275 YP 002343717.1          YVGEDVENILTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPN   239
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  YVGEDVENILLKLIQAADFNIERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPN   230
NTDB id 379 SMU RS04375 WP 002262816.1      YVGEDVENILLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPQ   231
consensus                                   !!!!!!!!!!**!*!!!!*****!!**!!***!!!!!!***!!*!!!!!!!!!!!!!!!!!!!!!*****!!*!!!!!!*

logo

NTDB id 1475 Cj0275 YP 002343717.1          QEFIQIDTSNILFVCGGAFDGLETILKRKLGDKVVGFFDDAK..EENKALLEKIEPDDLVHFGLIPELIGRLHVIASLNE   317
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKAIDDDSSYMQEIVAEDIQKFGLIPEFIGRLPVLAALEQ   310
NTDB id 379 SMU RS04375 WP 002262816.1      QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
consensus                                   !!*!!!!!*!!!!**!!!!!!*!*!*!**!!*!**!!****! ***********!* *!***!!!!!!*!!!!*!*!*!**

logo

NTDB id 1475 Cj0275 YP 002343717.1          LNEEDMVRILTEPKNALIIKQYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIV   397
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  LTVDDLVRILTEPRNALVKQYQTLLSYDGVELEFDQDALEAIASKAIERKTGARGLRSIIEEVMMDVMFEIPSQEDVTKV   390
NTDB id 379 SMU RS04375 WP 002262816.1      LTVDDLVKILTEPKNALVKQYQTLLSYDGVELEFDQEALQAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEDVTCV   391
consensus                                   !***!*!*!!!!!*!!**!!!!*!***!!!*!*!***!! !!!**!*!!!!!!!!!!!!!!!!!*!*!*!!!!*!***!** !

logo

NTDB id 1475 Cj0275 YP 002343717.1          I.TKEVVKDNAKALLIKRKIS   417
NTDB id 1085885 ACJVG6 RS07090 WP 002890340.1  RITKEAVDGTAAPVLETA...   408
NTDB id 379 SMU RS04375 WP 002262816.1      RITKKAVEGTDKPILETAS..   410
consensus                                   **!!**!******!***
```

X non conserved
X similar
X ≥ 50% conserved