```
logo

NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYL   80
NTDB id 315473 D5R92 RS00695 WP 003099812.1 ..MAVNRTNDIKVHCSFCGKDQDEVKKIIAG..NNVFICDECVALSQEIIKEELAEEVL.....ADLTEVPKPKELLDDIL   71
NTDB id 379 SMU RS04375 WP 002262816.1      ..MAGNRTNDVTVHCSFCGKNQDEVKKIIAG..NGVFICNECVELSQEIIREELAEEVL.....ADLSEVPKPKELLAIL   71
consensus                                     ** ****** **!!!!** ******!*!*   * *!!!**!!*****!!**!**!***     *********!!!!***!

logo

NTDB id 1475 Cj0275 YP 002343717.1          DRYVIGQDRAKKVFSVGVYNHYKRLFKAEL.QDDDTELFKSNILLVGPTGSGKTLLAQTLAKFLDVPIAICDATSLTEAG   159
NTDB id 315473 D5R92 RS00695 WP 003099812.1 NQYVVGQDHAKKALAVAVYNHYKRVSFTESRDEDEVELQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATSLTEAG   151
NTDB id 379 SMU RS04375 WP 002262816.1      DSYVIGQDRAKRALAVAVYNHYKRISFTESQDDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
consensus                                   * !!*!!!*!!****!*!!!!!!!*****!* ******!*!!!!!**!!!!!!!!*!!!!!!!*!*!!*!!*!!!*!!!!!

logo

NTDB id 1475 Cj0275 YP 002343717.1          YVGEDVENILTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPN   239
NTDB id 315473 D5R92 RS00695 WP 003099812.1 YVGEDVENILLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTEASVPPQGGRKHPN   231
NTDB id 379 SMU RS04375 WP 002262816.1      YVGEDVENILLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPQ   231
consensus                                   !!!!!!!!!!**!*!!!!**!*!!**!!***!!!!!!***!!*!!!!!!!!!!!!!!!!!!!!!*****!!*!!!!!!*

logo

NTDB id 1475 Cj0275 YP 002343717.1          QEFIQIDTSNILFVCGGAFDGLETILKRKLGDKVVGFFDDAKE..ENKALLEKIEPDDLVHFGLIPELIGRLHVIASLNE   317
NTDB id 315473 D5R92 RS00695 WP 003099812.1 QEMIQIDTKNILFIVGGAFDGIEEIVKQRLGEKIIGFGQNSRKIDEDASYMQEIIAEDIQKFGLIPEFIGRLPVVAALEQ   311
NTDB id 379 SMU RS04375 WP 002262816.1      QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
consensus                                   !!*!!!!!*!!!!**!!!!!!*!*!*!**!!*!**!!*** ***** ***** !* *!***!!!!!!*!!!!*!*!*!**

logo

NTVADLIQILTEPRNALVKQYQALLSYDGVELEFEKAALEAIAAKAIERKTGARGLRSIIEETMLDIMFEIPSQEDVIKV
NTDB id 1475 Cj0275 YP 002343717.1          LNEEDMVRILTEPKNAIIKQYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIV   397
NTDB id 315473 D5R92 RS00695 WP 003099812.1 LTVADLIQILTEPRNALVKQYQALLSYDGVELEFEKAALEAIAAKAIERKTGARGLRSIIEETMLDIMFEIPSQEDVIKV   391
NTDB id 379 SMU RS04375 WP 002262816.1      LTVDDLVKILTEPKNALVKQYQTLLSYDGVELEFDQEALQAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEDVTCV   391
consensus                                   !**!***!!!!!*!!**!!!! !***!!!*!*!* *!! !!!**!*!!!!!!!!!!!!!!!!*!*!*!!!!*!***!*  !

logo

NTDB id 1475 Cj0275 YP 002343717.1          I.TKEVVKDNAKALLIKRKIS   417
NTDB id 315473 D5R92 RS00695 WP 003099812.1 RITKDSVDGLKKPILETA...   409
NTDB id 379 SMU RS04375 WP 002262816.1      RITKKAVEGTDKPILETAS..   410
consensus                                   **!!* !**  !**!***
```

X non conserved

X similar

X ≥ 50% conserved