```
logo

NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYL   80
NTDB id 1138162 DQL13 RS05480 WP 012515695.1 ..MAGNRSNDIKVHCSFCGKSQDEVKKIIAG..NNVFICNECVALSQEIIKEELAEEVL.....SDLTEVPKPKELLDIL   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 1138162 DQL13 RS05480 WP 012515695.1 NQYVIGQERAKRALSVAVYNHYKRISFTESRDDDDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATSLTEAG   151
NTDB id 379 SMU RS04375 WP 002262816.1      DSYVIGQDRAKRALAVAVYNHYKRISFTESQDDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
consensus                                   * !!!!!*!!!****!*!!!!!!!****!* *!*!**!*!!!!!**!!!!!!!!*!!!!!!!*!*!!*!!*!!!!*!!!!!

logo

NTDB id 1475 Cj0275 YP 002343717.1          YVGEDVENILTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPN   239
NTDB id 1138162 DQL13 RS05480 WP 012515695.1 YVGEDVENILLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPN   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 1138162 DQL13 RS05480 WP 012515695.1 QEMIQIDTKNILFIVGGAFDGIEEIVKQRLGEKIIGFGQNSRKIDDNASYMQEIIAEDIQKFGLIPEFIGRLPVVAALEQ   311
NTDB id 379 SMU RS04375 WP 002262816.1      QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
consensus                                   !!*!!!!!*!!!!**!!!!!!*!*!*!**!!*!**!!*** ****** *****!* *!***!!!!!!*!!!!*!*!*!**

logo

NTDB id 1475 Cj0275 YP 002343717.1          LNEEDMVRILTEPKNAIIKQYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIV   397
NTDB id 1138162 DQL13 RS05480 WP 012515695.1 LNTEDLIRILTEPRNALVKQYQALLSYDGVELEFEKSALEAIAGRAIERKTGARGLRSIIEETMLDIMFEVPSQEEVTKV   391
NTDB id 379 SMU RS04375 WP 002262816.1      LTVDDLVKILTEPKNALVKQYQTLLSYDGVELEFDQEALQAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEDVTCV   391
consensus                                   !* *!***!!!!!*!!**!!!! !***!!!*!*!* *!! !!!*!*!!!!!!!!!!!!!!!!*!*!*!!!*!****** !

logo

NTDB id 1475 Cj0275 YP 002343717.1          .ITKEVVKDNAKALLIKRKIS   417
NTDB id 1138162 DQL13 RS05480 WP 012515695.1 RITKEAVEGQSKPILEIA...   409
NTDB id 379 SMU RS04375 WP 002262816.1      RITKKAVEGTDKPILETAS..   410
consensus                                   *!!!**!***  !**!* *
```

X non conserved

X similar

X ≥ 50% conserved