```
logo

NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYL   80
NTDB id 1159613 QOR59 RS06975 WP 000918412.1 ..MAGNRNNDMNVYCSFCGKSQDEVKKIIAG..NGVFICNECVALSQEIIKEELAEEVL.....ADLAEVPKPKELLEIL   71
NTDB id 379 SMU RS04375 WP 002262816.1      ..MAGNRTNDVTVHCSFCGKNQDEVKKIIAG..NGVFICNECVELSQEIIREELAEEVL.....ADLSEVPKPKELLAIL   71
consensus                                     ***** *** * !!!!** ******!*!*  ***!!!**!!*****!!**!**!***     *** ****!!!!***!

logo

NTDB id 1475 Cj0275 YP 002343717.1          DRYVIGQDRAKKVFSVGVYNHYKRLFKAELQ.DDDTELFKSNILLVGPTGSGKTLLAQTLAKFLDVPIAICDATSLTEAG   159
NTDB id 1159613 QOR59 RS06975 WP 000918412.1 NQYVVGQDRAKRALAVAVYNHYKRVSYTESSD.DDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATSLTEAG   150
NTDB id 379 SMU RS04375 WP 002262816.1      DSYVIGQDRAKRALAVAVYNHYKRISFTESQDDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
consensus                                   * !!*!!!!!!****!*!!!!!!!****!*****!**!*!!!!!**!!!!!!!!*!!!!!!!*!*!!*!!*!!!*!!!!!

logo

NTDB id 1475 Cj0275 YP 002343717.1          YVGEDVENILTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPN   239
NTDB id 1159613 QOR59 RS06975 WP 000918412.1 YVGEDVENILLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPN   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 1159613 QOR59 RS06975 WP 000918412.1 QEMIQINTKNILFIVGGAFDGIEDLVKQRLGEKIIGFGQTSRKIDDNASYMQEIISEDIQKFGLIPEFIGRLPVVAALEL   310
NTDB id 379 SMU RS04375 WP 002262816.1      QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
consensus                                   !!*!!!*!*!!!!**!!!!!!*!***!**!!*!**!!**  ****** *****!***!***!!!!!!*!!!!*!*!*!*

logo

NTDB id 1475 Cj0275 YP 002343717.1          LNEEDMVRILTEPKNAIIKQYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIV   397
NTDB id 1159613 QOR59 RS06975 WP 000918412.1 LTAEDLVRILTEPRNALVKQYQTLLSYDGVELEFDQDALLAIADKAIERKTGARGLRSIIEETMLDIMFEIPSQEDVTKV   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 1159613 QOR59 RS06975 WP 000918412.1 RITKAAVEGTDKPVLETA...   408
NTDB id 379 SMU RS04375 WP 002262816.1      RITKKAVEGTDKPILETAS..   410
consensus                                   **!! *!****!**!***
```

X non conserved

X similar

X ≥50% conserved