```
logo

NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYL   80
NTDB id 1171315 DYB47 RS04715 WP 003082210.1 ..MAGNRTNDVTVHCSFCGKNQDEVKKIIA..GNGVFICNECVELSQEIIREELAEDILA.....DLSEVPKPKELLDIL   71
NTDB id 379 SMU RS04375 WP 002262816.1      ..MAGNRTNDVTVHCSFCGKNQDEVKKIIA..GNGVFICNECVELSQEIIREELAEEVLA.....DLSEVPKPKELLAIL   71
consensus                                     ************!!!!*********!*!   ****!!!**!!!****!!**!**!****     *******!!!!***!

logo

NTDB id 1475 Cj0275 YP 002343717.1          DRYVIGQDRAKKVFSVGVYNHYKRLFKAE.LQDDDTELFKSNILLVGPTGSGKTLLAQTLAKFLDVPIAICDATSLTEAG   159
NTDB id 1171315 DYB47 RS04715 WP 003082210.1 DSYVIGQDRAKRALAVAVYNHYKRISFTESQEEDDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
NTDB id 379 SMU RS04375 WP 002262816.1      DSYVIGQDRAKRALAVAVYNHYKRISFTESQDDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAG   151
consensus                                   !*!!!!!!!!!****!*!!!!!!!****!**!**!*!!!!!**!!!!!!!!*!!!!!!!*!*!!*!!*!!!!*!!!!!

logo

NTDB id 1475 Cj0275 YP 002343717.1          YVGEDVENILTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPN   239
NTDB id 1171315 DYB47 RS04715 WP 003082210.1 YVGEDVENILLKLIQAADYNIERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPQ   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 1171315 DYB47 RS04715 WP 003082210.1 QEMIQIDTKNILFIVGGAFDGIEEIVKQRLGEKIIGFGQNSKKIDEKSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
NTDB id 379 SMU RS04375 WP 002262816.1      QEMIQIDTKNILFIVGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQ   311
consensus                                   !!*!!!!!*!!!!**!!!!!!*!*!*!**!!*!**!!*** !************!***!***!!!!!!*!!!!*!*!*!**

logo

NTDB id 1475 Cj0275 YP 002343717.1          LNEEDMVRILTEPKNAIIKQYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIV   397
NTDB id 1171315 DYB47 RS04715 WP 003082210.1 LTVEDLVRILTEPKNALVKQYKTLLSYDGVELEFDQEALEAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEEVTHV   391
NTDB id 379 SMU RS04375 WP 002262816.1      LTVDDLVKILTEPKNALVKQYQTLLSYDGVELEFDQEALQAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEDVTCV   391
consensus                                   !***!*!*!!!!!!!!!**!!!**!***!!!*!*!***!! !!!!*!*!!!!!!!!!!!!!!!!*!*!!!!!!*!****** !

logo

NTDB id 1475 Cj0275 YP 002343717.1          .ITKEVVKDNAKALLIKRKIS   417
NTDB id 1171315 DYB47 RS04715 WP 003082210.1 RITKAAVEGNDKPILETAS..   410
NTDB id 379 SMU RS04375 WP 002262816.1      RITKKAVEGTDKPILETAS..   410
consensus                                   *!!! *!****!**!****
```

X non conserved

X similar

X ≥50% conserved