```
logo
NTDB id 1475 Cj0275 YP 002343717.1          MEFLSIGVKIMPRKCSFCNEVENPQRRILANENDDAFICEYCVEGAYSIIYGEEKEFKEPKQSHNTEFKDITPKELKAYLDRYVI   85
NTDB id 51137 SPAF RS05835 WP 003001797.1   ..MPTNQNNDMMVYCSFCGKSQDEVQKIIAG..NNAFICNECVELAQEIIREELAEEVLA.....DLSEVPKPIELLNILNHYVI   76
NTDB id 379 SMU RS04375 WP 002262816.1      ..MAGNRTNDVTVHCSFCGKNQDEVKKIIAG..NGVFICNECVELSQEIIREELAEEVLA.....DLSEVPKPKELLAILDSYVI   76
consensus                                     * **  *** * !!!!** ******!*!*  * *!!!**!!!****!!**!**!****     *******!*!!***!* !!!

logo
NTDB id 1475 Cj0275 YP 002343717.1          GQDRAKKVFSVGVYNHYKRLFKAELQD..DDTELFKSNILLVGPTGSGKTLLAQTLAKFLDVPIAICDATSLTEAGYVGEDVENI  168
NTDB id 51137 SPAF RS05835 WP 003001797.1   GQDRAKRALAVAVYNHYKRINFHDTREDETDVELQKSNILMIGPTGSGKTFLAQTLARSLNVPFAIADATALTEAGYVGEDVENI  161
NTDB id 379 SMU RS04375 WP 002262816.1      GQDRAKRALAVAVYNHYKRISFTESQ.DDQDVDLQKSNILMIGPTGSGKTFLAQTLAKSLNVPFAIADATALTEAGYVGEDVENI  160
consensus                                   !!!!!!****!*!!!!!!!* * ***** !**!*!!!!!**!!!!!!!!*!!!!!!**!*!!*!!*!!!*!!!!!!!!!!!!!!

logo
NTDB id 1475 Cj0275 YP 002343717.1          LTRLLQAADGDVQRAQKGIVFIDEIDKIARMSENRSITRDVSGEGVQQALLKIIEGSLVNIPPRGGRKHPNQEFIQIDTSNILFV  253
NTDB id 51137 SPAF RS05835 WP 003001797.1   LLKLLQAADFNIERAERGIIYVDEIDKIAKKSENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPQQEMIQVDTKNILFI  246
NTDB id 379 SMU RS04375 WP 002262816.1      LLKLIQAADYNVERAERGIIYVDEIDKIAKKGENVSITRDVSGEGVQQALLKIIEGTVASVPPQGGRKHPQQEMIQIDTKNILFI  245
consensus                                   !**!*!!!!*****!!**!!***!!!!!!!***!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*

logo
NTDB id 1475 Cj0275 YP 002343717.1          CGGAFDGLETILKRKLGDKVVGFFDDAK..EENKALLEKIEPDDLVHFGLIPELIGRLHVIASLNELNEEDMVRILTEPKNAIIK  336
NTDB id 51137 SPAF RS05835 WP 003001797.1   VGGAFDGIEEIVKQRLGEKVIGFGKNNKAIDESSSYMQEIVAEDIQKFGIIPELIGRLPVFAALEQLTVDDLVRILKEPRNALVK  331
NTDB id 379 SMU RS04375 WP 002262816.1      VGGAFDGIEDIVKQRLGEKIIGFGQNNKKIDDQSSYMQEIISEDIQKFGLIPEFIGRLPVLAALEQLTVDDLVKILTEPKNALVK  330
consensus                                   *!!!!!!*!*!*!**!!*!**!!* **!  **********!* *!***!!*!!!*!!!!*!*!*!**!***!*!*!!*!!*!!**!

logo
NTDB id 1475 Cj0275 YP 002343717.1          QYQKLFAIDGVNLKFEEDALRAIAQLALERKTGARGLRSIIEEMMVDLMFELPEYKDYDIVI.TKEVVKDNAKALLIKRKIS  417
NTDB id 51137 SPAF RS05835 WP 003001797.1   QYQTLLSYDNVELEFDDEALQEIANKAIERKTGARGLRSIIEETMMDVMFEIPSQEDVKLVRITKEAVDGTEKPILETA...  410
NTDB id 379 SMU RS04375 WP 002262816.1      QYQTLLSYDGVELEFDQEALQAIAQKAIERKTGARGLRSIIEETMLDLMFEIPSQEDVTCVRITKKAVEGTDKPILETAS..  410
consensus                                   !!!*!***!*!*!*!**!!**!!**!*!!!!!!!!!!!!!!!!*!*!*!!!*!***!* *!**!!**!****!**!***
```

X non conserved

X similar

X ≥ 50% conserved