```
logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  MTQLTDDQARDYMHKLLAAMANAGGSDLFIAHDFPPSMKAHGQMTPLSPQKLTGAVTQQLARSLMNDKQRAEFAEQFECN   80
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ..........MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL.SVADVTALLHAMMDDARQAEFKQTREAN   69
NTDB id 1203 PSJM300 01605 AFN76401.1        ..........MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECN   70
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ..........MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECN   70
consensus                                     ******! *!* * *!!!*!**********!************** ************!! ***!*!

logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  FAIAVPG.VSRFRVNVFMQQGHVGMVLRTIAAEIPNFEKLRLPDVLKELVLAKRGLILLVGGTGSGKSTSLAAMLDHRNR  159
NTDB id 1177 A1552VC RS01165 WP 000422572.1  FAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQ  147
NTDB id 1203 PSJM300 01605 AFN76401.1        FAISARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNK  149
NTDB id 1019 ACIAD RS04205 WP 004922051.1    FAILNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ  150
consensus                                    !!** ** **!!!!**!*!****!*!*!*!***!!****!*!!**!**!***!!!*****!*!!*!!!!**!*!***!!*

logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  TTAGHIITVEDPVEYAFASQKSLVTHREVGVDTHSWHHALKNTLRQAPDVILIGEIRDAETMEHAIAFAETGHLCLSTLH  239
NTDB id 1177 A1552VC RS01165 WP 000422572.1  HRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLH  227
NTDB id 1203 PSJM300 01605 AFN76401.1        NSSGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLH  229
NTDB id 1019 ACIAD RS04205 WP 004922051.1    HSKGHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLH  230
consensus                                    ***!!!***!!!*!**!*******!*!!!!*!!*!***!!!!*!!!!!!*!!!!!*!**!*!**!**!!!!!!!***!!!

logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  ANSASQTMERIINFFPEERRTQLLMDLSANLRAIVSQRLVRTEDGKGRAAAIEILINTPTIAEKIFKGEFNELKAIMNKS  319
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARS  307
NTDB id 1203 PSJM300 01605 AFN76401.1        ANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRS  309
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ANNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARS  310
consensus                                    !!*!*! **!!*********!***!!!*!!**** !*!*** *!**!** *!*!*!*!*****!**!!****!**!**!

logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  RELGMRTFDWALFELYNDGMISYDEAIRNADSANELRLNIKLKSRRGEPANAAALSLSLDAAPTAEDAETIRREELRRQQ  399
NTDB id 1177 A1552VC RS01165 WP 000422572.1  QEVGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKIDME................  368
NTDB id 1203 PSJM300 01605 AFN76401.1        TDLGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTLEMSDDDP....GRSFR...  381
NTDB id 1019 ACIAD RS04205 WP 004922051.1    GELGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERKMTFDGQ....RRNLK...  383
consensus                                     **!!*!!!*!!* !**** !****!***!!!*!*!!!**!**** * *  ****** ****** **      ** **

logo

NTDB id 306570 DWG18 RS11060 WP 115647241.1  EKRDQLELERLQREKAARPA  419
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ....................  368
NTDB id 1203 PSJM300 01605 AFN76401.1        ....................  381
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ....................  383
consensus
```

X non conserved
X similar
X $\geq$ 50% conserved