```
logo
NTDB id 1307 DR RS10055 WP 010888596.1          MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG   80
NTDB id 1177 A1552VC RS01165 WP 000422572.1     ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEA.LSVADVTALLHAMMDDARQAEFKQTREANFAVVRD   75
NTDB id 1019 ACIAD RS04205 WP 004922051.1       ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR   76
NTDB id 988435 AAG562 RS04960 WP 003282740.1   ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKIMPVSKTAMSPEMTRETVHGVMNEQQRREFTENHECNFAISAR   76
NTDB id 1203 PSJM300 01605 AFN76401.1           ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISAR   76
consensus                                           ***  *!********!!*****!********!** ** ** ** **** ******** ****! * *!**!**  *

logo
NTDB id 1307 DR RS10055 WP 010888596.1          .DKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI  159
NTDB id 1177 A1552VC RS01165 WP 000422572.1    ..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHI  153
NTDB id 1019 ACIAD RS04205 WP 004922051.1      EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHI  156
NTDB id 988435 AAG562 RS04960 WP 003282740.1  G.IGRFRVSAFYQRNLAGMVLRRIETNIPTIDELKLPDVLKKLSMTKRGLVLFVGATGTGKSTSLASMIGYRNKNSSGHI  155
NTDB id 1203 PSJM300 01605 AFN76401.1          G.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI  155
consensus                                         *!!!!*!!*!! * !*!*!*!*! ********!!**** ******!!*****!*!!*!!!!**!*!****!  ***!!

logo
NTDB id 1307 DR RS10055 WP 010888596.1          LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE  239
NTDB id 1177 A1552VC RS01165 WP 000422572.1    LTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQ  233
NTDB id 1019 ACIAD RS04205 WP 004922051.1      ITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNANQ  236
NTDB id 988435 AAG562 RS04960 WP 003282740.1  ISIEDPIEFIHQHQSCIVTQREVGIDTSSFEVALKNTLRQAPDVILIGEIRTRETMDYAVAFAETGHLCLATLHANNANQ  235
NTDB id 1203 PSJM300 01605 AFN76401.1          ISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ  235
consensus                                      ***!!!!!!*! *  *!**!!!!!*!!*!***!!***!!!!!!*!!*!!*!**!****!***!!!!!!**!!!*!*!**

logo
NTDB id 1307 DR RS10055 WP 010888596.1          SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIRECGKTFQITSVMQTGAREGMV  319
NTDB id 1177 A1552VC RS01165 WP 000422572.1    ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ  313
NTDB id 1019 ACIAD RS04205 WP 004922051.1      TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ  316
NTDB id 988435 AAG562 RS04960 WP 003282740.1  ALDRIINFFPPDRHNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKSLMKRSTELGMQ  315
NTDB id 1203 PSJM300 01605 AFN76401.1          ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ  315
consensus                                      ***!!* *** ** *!****!**!!*****!!!*** *!**!****!*!***!*****!!*!****** *! ** **!!*

logo
NTDB id 1307 DR RS10055 WP 010888596.1          TMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAAPATP  399
NTDB id 1177 A1552VC RS01165 WP 000422572.1    TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGSGS...LQNVKIDME.......................  368
NTDB id 1019 ACIAD RS04205 WP 004922051.1      TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERKMTFD....GQRRNLK.........  383
NTDB id 988435 AAG562 RS04960 WP 003282740.1  TFDQALYNLYVQGEITYEDALLHADSANDLRLLIKLGSETDGEHLT.....SVSQGLSLEVSDEDPGRRFR.........  381
NTDB id 1203 PSJM300 01605 AFN76401.1          TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLT.....SVSQGLTLEMSDDDPGRSFR.........  381
consensus                                      !*!**!**!**   !*****! *!** ********** **   *      *   ** * *    ** **
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logo
                                                AAPAAGRSEPGRAGGFGRR
NTDB id 1307 DR RS10055 WP 010888596.1          AAPAAGRSEPGRAGGFGRR   418
NTDB id 1177 A1552VC RS01165 WP 000422572.1     ....................  368
NTDB id 1019 ACIAD RS04205 WP 004922051.1       ....................  383
NTDB id 988435 AAG562 RS04960 WP 003282740.1    ....................  381
NTDB id 1203 PSJM300 01605 AFN76401.1           ....................  381
consensus
```

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