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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..........MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGE.ALSVADVTALLHAMMDDARQAEFKQTREAN   69
NTDB id 1147016 CKV86 RS02470 WP 003704392.1  MFTDENMTAKEELFAWLRHMNKNKGSDLFVTTHFPPAMKLDGKITRITDEPLTAEKCMEIAFSIMSAKQAEEFSSTNECN   80
NTDB id 1203 PSJM300 01605 AFN76401.1         ..........MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECN   70
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ..........MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECN   70
NTDB id 1307 DR RS10055 WP 010888596.1        ......MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELD   74
NTDB id 1086 NMV RS00245 WP 002218487.1       ..........MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVD   70
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ..........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD   70
NTDB id 1259 GC085 RS10305 WP 010947729.1     ..........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD   70
NTDB id 1194 PAKAF RS01995 WP 003084552.1     ..........MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETD   70
NTDB id 1202 PSJM300 01600 AFN76400.1         ..........MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETD   70
NTDB id 1020 ACIAD RS04210 WP 011182164.1     ..........MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETD   70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ..........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD   70
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ..........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD   70
NTDB id 1040 HON27 RS13360 WP 000355489.1     ..........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD   70
consensus                                      ******!****** *!!*************!******** *** **  ****************  !**

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   FAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQ  147
NTDB id 1147016 CKV86 RS02470 WP 003704392.1  FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPALKDVALKKRGLVIFVGGTGSGKSTSLASLIDYRNE  159
NTDB id 1203 PSJM300 01605 AFN76401.1         FAISARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNK  149
NTDB id 1019 ACIAD RS04205 WP 004922051.1     FAILNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ  150
NTDB id 1307 DR RS10055 WP 010888596.1        FSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT  153
NTDB id 1086 NMV RS00245 WP 002218487.1       FSFELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINE  149
NTDB id 1283 ACE17W RS02630 WP 010947729.1    FSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS  149
NTDB id 1259 GC085 RS10305 WP 010947729.1     FSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS  149
NTDB id 1194 PAKAF RS01995 WP 003084552.1     FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNN  149
NTDB id 1202 PSJM300 01600 AFN76400.1         FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNN  149
NTDB id 1020 ACIAD RS04210 WP 011182164.1     FSFEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINN  149
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE  149
NTDB id 1060 ABD1 RS04380 WP 000355489.1      FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE  149
NTDB id 1040 HON27 RS13360 WP 000355489.1     FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE  149
consensus                                     !*****  **!!!!*****  *****!*!*!*************  ******  *!!*****!*!!*!!!!**!******!

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   HRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLH  227
NTDB id 1147016 CKV86 RS02470 WP 003704392.1  NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVILIGEIRDRETMDYAIAFAETGHLCMATLH  239
NTDB id 1203 PSJM300 01605 AFN76401.1         NSSGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLH  229
NTDB id 1019 ACIAD RS04205 WP 004922051.1     HSKGHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLH  230
NTDB id 1307 DR RS10055 WP 010888596.1        TKKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLH  233
NTDB id 1086 NMV RS00245 WP 002218487.1       TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLH  229
NTDB id 1283 ACE17W RS02630 WP 010947729.1    SRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLH  229
NTDB id 1259 GC085 RS10305 WP 010947729.1     SRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLH  229
NTDB id 1194 PAKAF RS01995 WP 003084552.1     TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
NTDB id 1202 PSJM300 01600 AFN76400.1         TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
NTDB id 1020 ACIAD RS04210 WP 011182164.1     HRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
NTDB id 1060 ABD1 RS04380 WP 000355489.1      NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
NTDB id 1040 HON27 RS13360 WP 000355489.1     NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH  229
consensus                                      **  !!***!!!!!!*!  *******!!!****!   *   !!***!!**!!*!!*!!*!**!****!***!!!!!!***!!!
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logo
                                                   TTSAAKTIDRIIDVFPAEEKSMVRSMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGTPAIRNLIREGKYAQMYSSIQTG
                                                   ANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARS
NTDB id 1177 A1552VC RS01165 WP 000422572.1        ANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARS   307
NTDB id 1147016 CKV86 RS02470 WP 003704392.1       ANSTNQALDRIINFFPEERREQLLTDLSLNLQAFISQRLVPRDGGKGRVAAVEVLLNSPLISELIHNGNIHEIKEVMKKS   319
NTDB id 1203 PSJM300 01605 AFN76401.1              ANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRS   309
NTDB id 1019 ACIAD RS04205 WP 004922051.1          ANNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARS   310
NTDB id 1307 DR RS10055 WP 010888596.1             TNSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTG   313
NTDB id 1086 NMV RS00245 WP 002218487.1            TTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG   309
NTDB id 1283 ACE17W RS02630 WP 010947729.1         TNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG   308
NTDB id 1259 GC085 RS10305 WP 010947729.1          TNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG   308
NTDB id 1194 PAKAF RS01995 WP 003084552.1          TTSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTG   308
NTDB id 1202 PSJM300 01600 AFN76400.1              TTSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTG   308
NTDB id 1020 ACIAD RS04210 WP 011182164.1          TTSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTG   308
NTDB id 1081 FDQ49 RS05335 WP 006581387.1          TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
NTDB id 1060 ABD1 RS04380 WP 000355489.1           TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
NTDB id 1040 HON27 RS13360 WP 000355489.1          TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
consensus                                          * ** ****!*************** *!***!*****!*!***  ***!*** !************!** ******* ****
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logo
                                                   QEVGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGS........GSLQNVKIDME...........
NTDB id 1177 A1552VC RS01165 WP 000422572.1        QEVGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGS........GSLQNVKIDME...........   368
NTDB id 1147016 CKV86 RS02470 WP 003704392.1       TTLGMQTFDQHLYQLYEKGEISLQDALKNADSAHDLRLAVQLRSRRAQSS.D....PDLELL...................   376
NTDB id 1203 PSJM300 01605 AFN76401.1              TDLGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEH.L....TSVS.QGLTLEMSDDDPGRSFR..   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1          GELGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPL.D....NRERMSEMERKMTFDGQRRNLK..   383
NTDB id 1307 DR RS10055 WP 010888596.1             AREGMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNS.ASSSSTGRGGDFGRG   392
NTDB id 1086 NMV RS00245 WP 002218487.1            QASGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....................................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1         QAKGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.......................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1          QAKGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.......................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1          GSLGMQTLDMCLKGLVAKGLISRENAREKAKIPENF.......................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1              GSLGMQTLDSCLKGLLAKGLISRDSAKEKAKQPENF.......................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1          ATHGMTTLDQSLKQLLAKGIINLPTARAVAKSPESF.......................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1          ANHGMTTLDQSLKGLVSRGVISPQTARTAAKQPESFL......................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1           ANHGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL......................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1          ANHGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL......................................   345
consensus                                          *  !!*!*!* !  !* ***!*   *   !  *  *
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logo
                                                   AAAPATPAAPAAGRSEPGRAGGFGRR
NTDB id 1177 A1552VC RS01165 WP 000422572.1        ..........................   368
NTDB id 1147016 CKV86 RS02470 WP 003704392.1       ..........................   376
NTDB id 1203 PSJM300 01605 AFN76401.1              ..........................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1          ..........................   383
NTDB id 1307 DR RS10055 WP 010888596.1             AAAPATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1086 NMV RS00245 WP 002218487.1            ..........................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1         ..........................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1          ..........................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1          ..........................   344
NTDB id 1202 PSJM300 01600 AFN76400.1              ..........................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1          ..........................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1          ..........................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1           ..........................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1          ..........................   345
consensus
```

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