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logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1  ........MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGE.ALSVADVTALLHAMMDDARQAEFKQTREANFA   71
NTDB id 202564 BJN34 RS16580 WP 078197803.1  MLDRESAAKYINDLLELMVSNRGSDLFITSDFPPAIKVDGKLTPVSQQPLNPTQALGLVRSVMNERQVQEFDTSRECNFA   80
NTDB id 1203 PSJM300 01605 AFN76401.1        ........MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFA   72
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ........MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFA   72
NTDB id 1307 DR RS10055 WP 010888596.1       ....MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFS   76
NTDB id 1086 NMV RS00245 WP 002218487.1      ........MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFS   72
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFS   72
NTDB id 1259 GCO85 RS10305 WP 010947729.1    ........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFS   72
NTDB id 1202 PSJM300 01600 AFN76400.1        ........MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFS   72
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ........MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFS   72
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ........MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1040 HON27 RS13360 WP 000355489.1    ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
consensus                                     ******!****** *!!*******************!******** *** **  ****************  !**!*

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NTDB id 1177 A1552VC RS01165 WP 000422572.1  VVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHR  149
NTDB id 202564 BJN34 RS16580 WP 078197803.1  ITAPK.AGRFRVSAFIQQGKAGMVVRTINTRIPSVADLDLPPTLHDVVMAKRGLVIVTGATGSGKSTTLAAMLDHRNAHS  159
NTDB id 1203 PSJM300 01605 AFN76401.1        ISARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNS  151
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ILNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHS  152
NTDB id 1307 DR RS10055 WP 010888596.1       FALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTK  155
NTDB id 1086 NMV RS00245 WP 002218487.1      FELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQ  151
NTDB id 1283 ACE17W RS02630 WP 010947729.1   FEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSR  151
NTDB id 1259 GCO85 RS10305 WP 010947729.1    FEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSR  151
NTDB id 1202 PSJM300 01600 AFN76400.1        FEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTK  151
NTDB id 1194 PAKAF RS01995 WP 003084552.1    FEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTK  151
NTDB id 1020 ACIAD RS04210 WP 011182164.1    FEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHR  151
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    FEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENR  151
NTDB id 1060 ABD1 RS04380 WP 000355489.1     FEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENR  151
NTDB id 1040 HON27 RS13360 WP 000355489.1    FEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENR  151
consensus                                    ****  **!!!!**!** *****!*!*!************ *****   *!!*****!*!!*!!!!**!******!  *

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NTDB id 1177 A1552VC RS01165 WP 000422572.1  TGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHAN  229
NTDB id 202564 BJN34 RS16580 WP 078197803.1  YGHITTIEDPIEYVHAHQNCIVTQREVGIDTESWHVALKNTLRQAPDVILIGEIRDRETMEYAMQYAETGHLCLATLHAN  239
NTDB id 1203 PSJM300 01605 AFN76401.1        SGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHAN  231
NTDB id 1019 ACIAD RS04205 WP 004922051.1    KGHITTIEDPIEFIHEHAGCITTQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHAN  232
NTDB id 1307 DR RS10055 WP 010888596.1       KLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTN  235
NTDB id 1086 NMV RS00245 WP 002218487.1      PAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTT  231
NTDB id 1283 ACE17W RS02630 WP 010947729.1   YEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTN  231
NTDB id 1259 GCO85 RS10305 WP 010947729.1    YEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTN  231
NTDB id 1202 PSJM300 01600 AFN76400.1        YHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
NTDB id 1194 PAKAF RS01995 WP 003084552.1    YHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
NTDB id 1020 ACIAD RS04210 WP 011182164.1    YDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    YDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
NTDB id 1060 ABD1 RS04380 WP 000355489.1     YDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
NTDB id 1040 HON27 RS13360 WP 000355489.1    YDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTT  231
consensus                                    * !!***!!!!!**!  *******!!!****!  **   !!***!!**!!*!!*!!*!**!****!***!!!!!!***!!!*
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   NANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQE   309
NTDB id 202564 BJN34 RS16580 WP 078197803.1   NANQAIDRVVNFFPEEKRQQLLIDLSLNLKAMISQRLLPRAGKKGRVPAVEIMIGTPLVADLIFKGEIHELKEVIKKSRE   319
NTDB id 1203 PSJM300 01605 AFN76401.1         NANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTD   311
NTDB id 1019 ACIAD RS04205 WP 004922051.1     NANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGE   312
NTDB id 1307 DR RS10055 WP 010888596.1        SAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAR   315
NTDB id 1086 NMV RS00245 WP 002218487.1       GAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA   311
NTDB id 1283 ACE17W RS02630 WP 010947729.1    SATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQA   310
NTDB id 1259 GCO85 RS10305 WP 010947729.1     SATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQA   310
NTDB id 1202 PSJM300 01600 AFN76400.1         SAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGS   310
NTDB id 1194 PAKAF RS01995 WP 003084552.1     SAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGS   310
NTDB id 1020 ACIAD RS04210 WP 011182164.1     SAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGAT   310
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     SAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
NTDB id 1060 ABD1 RS04380 WP 000355489.1      SAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
NTDB id 1040 HON27 RS13360 WP 000355489.1     SAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
consensus                                     *!  ****!***********  ***  *!***!*****!*!***   ***!***  !*************!**  *******  *****

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NTDB id 1177 A1552VC RS01165 WP 000422572.1   VGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYG...SGSLQNVK....IDME..............   368
NTDB id 202564 BJN34 RS16580 WP 078197803.1   QGMISFDQALFDLYEEGKITYEDALRNADSLNDLRLMIKLHSASAKDTDLGAGTEHLN....VI................   379
NTDB id 1203 PSJM300 01605 AFN76401.1         LGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLT....LEMSDDDPGRSFR.....   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     LGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEME....RKMTFDGQRRNLK.....   383
NTDB id 1307 DR RS10055 WP 010888596.1        EGMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA   395
NTDB id 1086 NMV RS00245 WP 002218487.1       SGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.......................................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1    KGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.........................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1     KGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.........................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         LGMQTLDSCLKGLLAKGLISRDSAKEKAKQPENF.........................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     LGMQTLDMCLKGLVAKGLISRENAREKAKIPENF.........................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     HGMTTLDQSLKQLLAKGIINLPTARAVAKSPESF.........................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     HGMTTLDQSLKGLVSRGVISPQTARTAAKQPESFL........................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      HGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL........................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     HGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL........................................   345
consensus                                      !!***!*  !   !*  ***!*    *    !   *   *

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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ......................   368
NTDB id 202564 BJN34 RS16580 WP 078197803.1   ......................   379
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        PATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1086 NMV RS00245 WP 002218487.1       ......................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ......................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1     ......................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         ......................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     ......................   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
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X non conserved
X similar
X $\geq$ 50% conserved