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logo
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NTDB id 36750 SLIT RS13785 WP 013030883.1    MERDQATELVHNLLRGLVSQKASDLFITSGFPPAFKIDGKMTPVSSQALTSQHTQELARSIMNDRQAAEFESTHECNFAI   80
NTDB id 1203 PSJM300 01605 AFN76401.1        .......MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAI   73
NTDB id 1019 ACIAD RS04205 WP 004922051.1    .......MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAI   73
NTDB id 1307 DR RS10055 WP 010888596.1       ...MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSF   77
NTDB id 1185 GTF74 RS11940 WP 000350195.1    .......MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSF   73
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NTDB id 1194 PAKAF RS01995 WP 003084552.1    .......MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSF   73
NTDB id 1202 PSJM300 01600 AFN76400.1        .......MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSF   73
NTDB id 1020 ACIAD RS04210 WP 011182164.1    .......MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    .......MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1060 ABD1 RS04380 WP 000355489.1     .......MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1040 HON27 RS13360 WP 000355489.1    .......MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
consensus                                      *** **! ****  *!!*****!********!***** **** * *** ****************  *! *!**

logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1  VRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRT  150
NTDB id 36750 SLIT RS13785 WP 013030883.1    SPPG.IGRFRVNVFMQQQRVGMVLRTITTKIPSFEELGLPKVLKDVVMTKRGLAILVGGTGSGKSTSLAAMLGHRNHNSF  159
NTDB id 1203 PSJM300 01605 AFN76401.1        SARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSS  152
NTDB id 1019 ACIAD RS04205 WP 004922051.1    LNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSK  153
NTDB id 1307 DR RS10055 WP 010888596.1       ALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKK  156
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHN  152
NTDB id 1176 A1552VC RS01160 WP 000350195.1  ELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHN  152
NTDB id 1194 PAKAF RS01995 WP 003084552.1    EVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKY  152
NTDB id 1202 PSJM300 01600 AFN76400.1        EVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKY  152
NTDB id 1020 ACIAD RS04210 WP 011182164.1    EVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRY  152
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    EVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY  152
NTDB id 1060 ABD1 RS04380 WP 000355489.1     EVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY  152
NTDB id 1040 HON27 RS13360 WP 000355489.1    EVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY  152
consensus                                    ***  **!!!!**! ! ** **!*!*!**** *******  *** *    *!*****!*!!*!!!!**!*!* **!  *

logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1  GHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANN  230
NTDB id 36750 SLIT RS13785 WP 013030883.1    GHIITIEDPVEFVHDHDKCIVTHREVGVDTNDWHTALKNTLRQAPDVILIGEIRDRETMEYAVAFAETGHLCLATLHANS  239
NTDB id 1203 PSJM300 01605 AFN76401.1        GHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANN  232
NTDB id 1019 ACIAD RS04205 WP 004922051.1    GHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANN  233
NTDB id 1307 DR RS10055 WP 010888596.1       LHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNS  236
NTDB id 1185 GTF74 RS11940 WP 000350195.1    KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS  232
NTDB id 1176 A1552VC RS01160 WP 000350195.1  KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS  232
NTDB id 1194 PAKAF RS01995 WP 003084552.1    HHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1202 PSJM300 01600 AFN76400.1        HHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1020 ACIAD RS04210 WP 011182164.1    DHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    DHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1060 ABD1 RS04380 WP 000355489.1     DHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1040 HON27 RS13360 WP 000355489.1    DHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
consensus                                     !!***!!!*!!*!  *******!!!**!!  *  !!***!!**!!*!!*!!*!* !** *!***!!!!!!***!!!***
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logo
                                                  AAKTIDRIIDVFPAEEKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSAIQTGAAH
                                                  ANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEV
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NTDB id 36750 SLIT RS13785 WP 013030883.1         ANQALDRIINFFPEERREQLLMDLSLNIKALISQRLIPKKDGKGRAAAFEILLNSPLIADLIFKGAVHEIKEVMARSREL   319
NTDB id 1203 PSJM300 01605 AFN76401.1             ANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDL   312
NTDB id 1019 ACIAD RS04205 WP 004922051.1         ANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGEL   313
NTDB id 1307 DR RS10055 WP 010888596.1            APESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGARE   316
NTDB id 1185 GTF74 RS11940 WP 000350195.1         AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH   311
NTDB id 1176 A1552VC RS01160 WP 000350195.1       AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH   311
NTDB id 1194 PAKAF RS01995 WP 003084552.1         AAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSL   311
NTDB id 1202 PSJM300 01600 AFN76400.1             AAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSL   311
NTDB id 1020 ACIAD RS04210 WP 011182164.1         AAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATH   311
NTDB id 1081 FDQ49 RS05335 WP 006581387.1         AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH   311
NTDB id 1060 ABD1 RS04380 WP 000355489.1          AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH   311
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consensus                                         !*****!*************** *!**** ****! !***  !**!****!*****!*****!** ******* *****
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logo
                                                  GMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLK.TKRGDD.............YGSGSLQNVKIDME........
NTDB id 1177 A1552VC RS01165 WP 000422572.1       GMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLK.TKRGDD.............YGSGSLQNVKIDME........   368
NTDB id 36750 SLIT RS13785 WP 013030883.1         GMQTFDQALFDLHEAGAITYEEALKNADSVNDLRLKIK.LEGQATR...........DRDVMSGLDNLK..MT........   378
NTDB id 1203 PSJM300 01605 AFN76401.1             GMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIK.LGSETDG...........EHLTSVS.QGLTLEMSDDDPGRSF   380
NTDB id 1019 ACIAD RS04205 WP 004922051.1         GMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIK.LSEEANK...........PLDNRERMSEMERKMTFDGQRRNL   382
NTDB id 1307 DR RS10055 WP 010888596.1            GMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASS.......SSTGRGGDF   389
NTDB id 1185 GTF74 RS11940 WP 000350195.1         GMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.......................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1       GMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.......................................   345
NTDB id 1194 PAKAF RS01995 WP 003084552.1         GMQTLDMCLKGLVAKGLISRENAREKAKIPENF........................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1             GMQTLDSCLKGLLAKGLISRDSAKEKAKQPENF........................................   344
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1         GMTTLDQSLKGLVSRGVISPQTARTAAKQPESFL.......................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1          GMTTLDQSLKGLVARGVISPQTARTAAKQPESFL.......................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1         GMTTLDQSLKGLVARGVISPQTARTAAKQPESFL.......................................   345
consensus                                         !!*!*** ** !* *****   *   *  *
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logo
                                                  RRGAAAPATPAAPAAGRSEPGRAGGFGRR
NTDB id 1177 A1552VC RS01165 WP 000422572.1       ..............................   368
NTDB id 36750 SLIT RS13785 WP 013030883.1         ..............................   378
NTDB id 1203 PSJM300 01605 AFN76401.1             R.............................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1         K.............................   383
NTDB id 1307 DR RS10055 WP 010888596.1            GRGAAAPATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1185 GTF74 RS11940 WP 000350195.1         ..............................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1       ..............................   345
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
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X non conserved
X similar
X $\geq$ 50% conserved