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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   .......MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEA.LSVADVTALLHAMMDDARQAEFKQTREANFAV   72
NTDB id 83461 JLC71 RS09915 WP 305066867.1   MEKEQSAKFMHDLLRHMRTKDASDLFITADFPPAMKIDGRVTPVSNQMLSAQHTKELARAIMNDRQAEEFEGSKECNFAI   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 1116 NGFG RS10615 WP 003690200.1      .......MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSF   73
NTDB id 1086 NMV RS00245 WP 002218487.1       .......MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSF   73
NTDB id 1185 GTF74 RS11940 WP 000350195.1     .......MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSF   73
NTDB id 1176 A1552VC RS01160 WP 000350195.1  .......MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSF   73
NTDB id 1283 ACE17W RS02630 WP 010947729.1   .......MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSF   73
NTDB id 1259 GC085 RS10305 WP 010947729.1    .......MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSF   73
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
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consensus                                           *** **!****** *!!*******************!******** * * **  ********************** *! *!**
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   VR..DSGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRT   150
NTDB id 83461 JLC71 RS09915 WP 305066867.1   SP.GNLGRFRVNAFMQQGRVGMVLRTINSEIPKLEELGLPSVLKDIAMTKRGLVIFVGGTGSGKSTSLAAMIGHRNETAY   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        AL.GDKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKK   156
NTDB id 1116 NGFG RS10615 WP 003690200.1      EL.PNVARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQP   152
NTDB id 1086 NMV RS00245 WP 002218487.1       EL.PNVARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQP   152
NTDB id 1185 GTF74 RS11940 WP 000350195.1     EL.PNVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHN   152
NTDB id 1176 A1552VC RS01160 WP 000350195.1  EL.PNVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHN   152
NTDB id 1283 ACE17W RS02630 WP 010947729.1   EI.ANLARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRY   152
NTDB id 1259 GC085 RS10305 WP 010947729.1    EI.ANLARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRY   152
NTDB id 1194 PAKAF RS01995 WP 003084552.1    EV.PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKY   152
NTDB id 1202 PSJM300 01600 AFN76400.1        EV.PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKY   152
NTDB id 1020 ACIAD RS04210 WP 011182164.1    EV.PNLARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRY   152
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    EV.PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY   152
NTDB id 1060 ABD1 RS04380 WP 000355489.1     EV.PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY   152
NTDB id 1040 HON27 RS13360 WP 000355489.1    EV.PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY   152
consensus                                    ** ****!!!!**!** ** **!*!*!** ********** *** **   *!*****!*!!*!!!!**!*** **!   *
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logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1   GHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANN   230
NTDB id 83461 JLC71 RS09915 WP 305066867.1    DHIITIEDPIEYVHEHKRSIITQREVGVDTDSWMAALKNTLRQAPDVILIGEIRDRETMDYAIAFAETGHLCMATLHANS   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 1116 NGFG RS10615 WP 003690200.1      AHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTG   232
NTDB id 1086 NMV RS00245 WP 002218487.1       AHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTG   232
NTDB id 1185 GTF74 RS11940 WP 000350195.1     KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS   232
NTDB id 1176 A1552VC RS01160 WP 000350195.1   KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS   232
NTDB id 1283 ACE17W RS02630 WP 010947729.1    EHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNS   232
NTDB id 1259 GC085 RS10305 WP 010947729.1     EHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNS   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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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEV   310
NTDB id 83461 JLC71 RS09915 WP 305066867.1    ANQALDRIINFFPEERKAQLLMDLSLNLKAFVSQRLVPHRAGKGRVAAVEVMLNSPLISELVFKGDVHEIKEIMKRSREL   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        APESIDRIVDVFPEEQQFQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGARE   316
NTDB id 1116 NGFG RS10615 WP 003690200.1      AAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQAS   312
NTDB id 1086 NMV RS00245 WP 002218487.1       AAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQAS   312
NTDB id 1185 GTF74 RS11940 WP 000350195.1     AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH   311
NTDB id 1176 A1552VC RS01160 WP 000350195.1   AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH   311
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAK   311
NTDB id 1259 GC085 RS10305 WP 010947729.1     ATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAK   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
NTDB id 1040 HON27 RS13360 WP 000355489.1     AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH   311
consensus                                     !*****!************** *!***! ****! !***  ***!****!*************** ******* *****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   GMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGSG...SLQNVKI.......DME............   368
NTDB id 83461 JLC71 RS09915 WP 305066867.1    GMQTFDQSLFDLHEAGKISYEDALRNADSVNDLRLQIKLNGSDAKQKDVLSGFDHLDI.......V..............   378
NTDB id 1203 PSJM300 01605 AFN76401.1         GMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.......EMSDDDPGRSFR...   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     GMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.......KMTFDGQRRNLK...   383
NTDB id 1307 DR RS10055 WP 010888596.1        GMVTMDAYLAGLFRRHLITYDKGLERAID.PKEFARLAND..ASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGA   393
NTDB id 1116 NGFG RS10615 WP 003690200.1      GMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.........................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1       GMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.........................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1     GMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF..........................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1   GMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF..........................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1    GMQTLDQHLTELVNKNIISKHTAHEAALN.KSLF..........................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1     GMQTLDQHLTELVNKNIISKHTAHEAALN.KSLF..........................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     GMQTLDMCLKGLVAKGLISRENAREKAKI.PENF..........................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         GMQTLDSCLKGLLAKGLISRDSAKEKAKQ.PENF..........................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     GMTTLDQSLKQLLAKGIINLPTARAVAKS.PESF..........................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     GMTTLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.........................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      GMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL.........................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     GMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL.........................................   345
consensus                                     !!*!*** *  !* *****   *   *      *

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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..........................   368
NTDB id 83461 JLC71 RS09915 WP 305066867.1    ..........................   378
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        AAPATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1116 NGFG RS10615 WP 003690200.1      ..........................   347
NTDB id 1086 NMV RS00245 WP 002218487.1       ..........................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1     ..........................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1   ..........................   345
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
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X non conserved
X similar
X ≥ 50% conserved