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NTDB id 1203 PSJM300 01605 AFN76401.1          ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKT..............PMSPEMTRETVHGVMNEQQRR   61
NTDB id 1019 ACIAD RS04205 WP 004922051.1      ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKT..............KLDGDMTAQLIDSITTQKQRQ   61
NTDB id 217892 B0537 RS04855 WP 077713429.1    ....MDIDGLLRLACQVGASDVHLTVDSVAVFRISGQLLPVDDPWFVSNGYLVPSDLQVKLTHEQTDAIVKQIMPPKNLQ   76
NTDB id 1307 DR RS10055 WP 010888596.1         MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFE..............PLSASDTRKLMYSMMNERQQR   65
NTDB id 1086 NMV RS00245 WP 002218487.1        ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLP..............EMSAEEVGNMVTSVMNDHQRK   61
NTDB id 1116 NGFG RS10615 WP 003690200.1       ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLP..............EMSAEEVGNMVTSVMNDHQRK   61
NTDB id 1185 GTF74 RS11940 WP 000350195.1      ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP..............AFTHSDVHRLIFEIMNDAQRS   61
NTDB id 1176 A1552VC RS01160 WP 000350195.1    ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP..............AFTHSDVHRLIFEIMNDAQRS   61
NTDB id 1283 ACE17W RS02630 WP 010947729.1     ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLP..............PLEHKDVIKIIYDIMNDRQRK   61
NTDB id 1259 GCO85 RS10305 WP 010947729.1      ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLP..............PLEHKDVIKIIYDIMNDRQRK   61
NTDB id 1194 PAKAF RS01995 WP 003084552.1      ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLP..............PLEHKQVHALIYDIMNDKQRK   61
NTDB id 1202 PSJM300 01600 AFN76400.1          ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLP..............AMDHKQVHALIYDIMNDKQRK   61
NTDB id 1020 ACIAD RS04210 WP 011182164.1      ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLP..............AMDHSEVHNLIYDIMNDKQRR   61
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP..............ALEHKDVHRLVYDIMNDKQRR   61
NTDB id 1060 ABD1 RS04380 WP 000355489.1       ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP..............ALEHKDVHRLVYDIMNDKQRR   61
NTDB id 1040 HON27 RS13360 WP 000355489.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP..............ALEHKDVHRLVYDIMNDKQRR   61
consensus                                        ******!******  *!!*****************!*********  ***  **  **********
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NTDB id 1203 PSJM300 01605 AFN76401.1          EFTENHECNFAISARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSL   140
NTDB id 1019 ACIAD RS04205 WP 004922051.1      EFIETHECNFAILNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSL   141
NTDB id 217892 B0537 RS04855 WP 077713429.1    KFTDTGESDFSYSIAG.ISRFRVNAYKQRGSSSLAIRLVSQHIPSYKDLGLPDVVVQLAKRPRGLILVTGPTGSGKSTTL   155
NTDB id 1307 DR RS10055 WP 010888596.1         IFEEKRELDFSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTL   144
NTDB id 1086 NMV RS00245 WP 002218487.1        IYQQNLEVDFSFELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTL   140
NTDB id 1116 NGFG RS10615 WP 003690200.1       IYQQNLEVDFSFELPN.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTL   140
NTDB id 1185 GTF74 RS11940 WP 000350195.1      EYEEKLEVDFSFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTL   140
NTDB id 1176 A1552VC RS01160 WP 000350195.1    EYEEKLEVDFSFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTL   140
NTDB id 1283 ACE17W RS02630 WP 010947729.1     EYEEFFETDFSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTL   140
NTDB id 1259 GCO85 RS10305 WP 010947729.1      EYEEFFETDFSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTL   140
NTDB id 1194 PAKAF RS01995 WP 003084552.1      DFEEFLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTL   140
NTDB id 1202 PSJM300 01600 AFN76400.1          DFEEFLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTL   140
NTDB id 1020 ACIAD RS04210 WP 011182164.1      DYEEKLETDFSFEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTL   140
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      DYEEKLETDFSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTL   140
NTDB id 1060 ABD1 RS04380 WP 000355489.1       DYEEKLETDFSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTL   140
NTDB id 1040 HON27 RS13360 WP 000355489.1      DYEEKLETDFSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTL   140
consensus                                      ****  *!**!*******  **!!!!*****  *******!****  **********  ***  **  **!******!*!!*!!!!*!
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NTDB id 1203 PSJM300 01605 AFN76401.1      AAMIGYRNKNSSGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAET  220
NTDB id 1019 ACIAD RS04205 WP 004922051.1  ASMIQHRNQHSKGHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAET  221
NTDB id 217892 B0537 RS04855 WP 077713429.1 AAMIDILNREERLHIITLEDPIEFLHRHQKCIINQREIGQDTENFTTALRSAMREDPDVILVGEMRDTETIAAAITAAET  235
NTDB id 1307 DR RS10055 WP 010888596.1     ASMIDHINTTKKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAET  224
NTDB id 1086 NMV RS00245 WP 002218487.1    AAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAET  220
NTDB id 1116 NGFG RS10615 WP 003690200.1   AAMINYINETQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAET  220
NTDB id 1185 GTF74 RS11940 WP 000350195.1  AAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAET  220
NTDB id 1176 A1552VC RS01160 WP 000350195.1 AAMVNYVNAHHNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAET  220
NTDB id 1283 ACE17W RS02630 WP 010947729.1 AAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAET  220
NTDB id 1259 GCO85 RS10305 WP 010947729.1  AAVIDYINSSRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAET  220
NTDB id 1194 PAKAF RS01995 WP 003084552.1  AAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
NTDB id 1202 PSJM300 01600 AFN76400.1       AAMLDYLNNTKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
NTDB id 1020 ACIAD RS04210 WP 011182164.1  AAMLDYINNHRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
NTDB id 1081 FDQ49 RS05335 WP 006581387.1  AAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
NTDB id 1060 ABD1 RS04380 WP 000355489.1   AAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
NTDB id 1040 HON27 RS13360 WP 000355489.1  AAMLDYINENRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAET  220
consensus                                  !*******!   *   !!***!!!!!!*!  *******!!!*****!  *!   !!*****!**!!*!!*!!*!*  !*****!***!!!
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NTDB id 1203 PSJM300 01605 AFN76401.1      GHLCLATLHANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAAADLIRKGEVH  300
NTDB id 1019 ACIAD RS04205 WP 004922051.1  GHLVFATLHANNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIY  301
NTDB id 217892 B0537 RS04855 WP 077713429.1 GHLVMATLHTASAAQTIDRIIDVFPPYQQQQIRVQLANTIQGVICQQLIPRLDMKSRVVACEIMVATPAIRNLIREGKTY  315
NTDB id 1307 DR RS10055 WP 010888596.1     GHLVMGTLHTNSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTF  304
NTDB id 1086 NMV RS00245 WP 002218487.1    GHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKIT  300
NTDB id 1116 NGFG RS10615 WP 003690200.1   GHLVFGTLHTTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKIT  300
NTDB id 1185 GTF74 RS11940 WP 000350195.1  GHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVA  299
NTDB id 1176 A1552VC RS01160 WP 000350195.1 GHLVFGTLHTSSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVA  299
NTDB id 1283 ACE17W RS02630 WP 010947729.1 GHLVFGTLHTNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIA  299
NTDB id 1259 GCO85 RS10305 WP 010947729.1  GHLVFGTLHTNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIA  299
NTDB id 1194 PAKAF RS01995 WP 003084552.1  GHLVFGTLHTTSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVA  299
NTDB id 1202 PSJM300 01600 AFN76400.1       GHLVFGTLHTTSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVA  299
NTDB id 1020 ACIAD RS04210 WP 011182164.1  GHLVFGTLHTTSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVA  299
NTDB id 1081 FDQ49 RS05335 WP 006581387.1  GHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVA  299
NTDB id 1060 ABD1 RS04380 WP 000355489.1   GHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVA  299
NTDB id 1040 HON27 RS13360 WP 000355489.1  GHLVFGTLHTTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVA  299
consensus                                  !!!***!!!****!*****!****!**********!**********!  !***   ***!****!**********!!*  ***
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NTDB id 1203 PSJM300 01605 AFN76401.1          ELKGLMKRSTDLGMQTFDQALYNLYVQGEITYEDALLHADSS.NDLRLMIKLGSETDGEHLTSVS.QGL....TLEMSDD   374
NTDB id 1019 ACIAD RS04205 WP 004922051.1      KIKELMARSGELGMQTFDQALFDLYDHQHISYADALKHADSP.NNLRLQIKLSEEANKPLDNRERMSEM....ERKMTFD   376
NTDB id 217892 B0537 RS04855 WP 077713429.1    QIDSQIQTGSKYGMQTMDWSLKSLYQGGQISLEQALAYSVDTETM.KRMLKYS.........................   367
NTDB id 1307 DR RS10055 WP 010888596.1         QITSVMQTGAREGMVTMDAYLAGLFRRHLITYDKGLERAID.PKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSST   383
NTDB id 1086 NMV RS00245 WP 002218487.1        QINSVLQTGQASGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1       QINSVLQTGQASGMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.................................   347
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NTDB id 1176 A1552VC RS01160 WP 000350195.1    QMYSIIQTGAAHGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF...................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1     QMYSSIQTGQAKGMQTLDQHLTELVNKNIISKHTAHEAALN.KSLF...................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1      QMYSSIQTGQAKGMQTLDQHLTELVNKNIISKHTAHEAALN.KSLF...................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      QMYSAIQTGGSLGMQTLDMCLKGLVAKGLISRENAREKAKI.PENF...................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1          QMYSSIQTGGSLGMQTLDSCLKGLLAKGLISRDSAKEKAKQ.PENF...................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1      QMYSSIQTGATHGMTTLDQSLKQLLAKGIINLPTARAVAKS.PESF...................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      QMYSAIQTGANHGMTTLDQSLKGLVSRGVISPQTARTAAKQ.PESFL..................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1       QMYSAIQTGANHGMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL..................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1      QMYSAIQTGANHGMTTLDQSLKGLVARGVISPQTARTAAKQ.PESFL..................................   345
consensus                                      **** *****  !!*!*** ** !* *****   *   *      *
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NTDB id 1203 PSJM300 01605 AFN76401.1          DPGRSFR.............................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1      GQRRNLK.............................   383
NTDB id 217892 B0537 RS04855 WP 077713429.1    ....................................   367
NTDB id 1307 DR RS10055 WP 010888596.1         GRGGDFGRGAAAPATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1086 NMV RS00245 WP 002218487.1        ....................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1       ....................................   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 GCO85 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