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NTDB id 1177 A1552VC RS01165 WP 000422572.1      .....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL.SVADVTALLHAMMDDARQAEFKQTREANFAVVR   74
NTDB id 1203 PSJM300 01605 AFN76401.1            .....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISA   75
NTDB id 1019 ACIAD RS04205 WP 004922051.1        .....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILN   75
NTDB id 345219 CCANL266 RS08560 WP 172234038.1   MENQLLEMNELLAFMKENNASDLHLVPGKRPIIRIHGVLTDLEFDILTPDVIKNSCYSIISDSQKASLEETKELDFAYPV   80
NTDB id 1307 DR RS10055 WP 010888596.1           .MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFAL   79
NTDB id 1086 NMV RS00245 WP 002218487.1          .....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1116 NGFG RS10615 WP 003690200.1         .....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1185 GTF74 RS11940 WP 000350195.1        .....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1176 A1552VC RS01160 WP 000350195.1      .....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1283 ACE17W RS02630 WP 010947729.1       .....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1259 GCO85 RS10305 WP 010947729.1        .....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1194 PAKAF RS01995 WP 003084552.1        .....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1202 PSJM300 01600 AFN76400.1            .....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1        .....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1060 ABD1 RS04380 WP 000355489.1         .....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1040 HON27 RS13360 WP 000355489.1        .....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
consensus                                             *** **!****** *!!*****!*********!********* * * **  ******************* *! *!****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      D..SGRFRVSAFFQRE.LPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTG   151
NTDB id 1203 PSJM300 01605 AFN76401.1            RG.IGRFRVSAFYQRN.LAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSG   153
NTDB id 1019 ACIAD RS04205 WP 004922051.1        REKNERFRVSAFQQRD.MPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKG   154
NTDB id 345219 CCANL266 RS08560 WP 172234038.1   RG.VGRFRGNYYYVEEGKLAAAFRMIPDTIPSLDELKSPAVFKELIKKEKGLILVTGATGSGKSTTLAAMLNEINQTERK   159
NTDB id 1307 DR RS10055 WP 010888596.1           GD.KARFRVNAFMQRG.NVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKL   157
NTDB id 1086 NMV RS00245 WP 002218487.1          PN.VARFRVNAFNIGR.GPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPA   153
NTDB id 1116 NGFG RS10615 WP 003690200.1         PN.VARFRVNAFNTGR.GPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPA   153
NTDB id 1185 GTF74 RS11940 WP 000350195.1        PN.VGRFRVNAFHQAR.GCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNK   153
NTDB id 1176 A1552VC RS01160 WP 000350195.1      PN.VGRFRVNAFHQAR.GCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNK   153
NTDB id 1283 ACE17W RS02630 WP 010947729.1       AN.LARFRVNAFNQSR.GAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYE   153
NTDB id 1259 GCO85 RS10305 WP 010947729.1        AN.LARFRVNAFNQSR.GAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYE   153
NTDB id 1194 PAKAF RS01995 WP 003084552.1        PG.VARFRVNAFNQNR.GAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYH   153
NTDB id 1202 PSJM300 01600 AFN76400.1            PG.VARFRVNAFNQNR.GAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYH   153
NTDB id 1020 ACIAD RS04210 WP 011182164.1        PN.LARFRVNVFNQNR.GAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYD   153
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        PN.VARFRVNAFNQNR.GAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
NTDB id 1060 ABD1 RS04380 WP 000355489.1         PN.VARFRVNAFNQNR.GAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
NTDB id 1040 HON27 RS13360 WP 000355489.1        PN.VARFRVNAFNQNR.GAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
consensus                                        ** **!!!******* * * ****!*!** ******* ** *** **    *!******!*!!*!!!!**!*** **!  *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  HILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNA  231
NTDB id 1203 PSJM300 01605 AFN76401.1        HIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNA  233
NTDB id 1019 ACIAD RS04205 WP 004922051.1    HIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNA  234
NTDB id 345219 CCANL266 RS08560 WP 172234038.1 HILTIEHPVEFMHQSKKSIFSYRNVDIDTKSFKNALKSALRQDPDIILIGEMRDKETIEAAITAAETGHLVFGTLHTNSA  239
NTDB id 1307 DR RS10055 WP 010888596.1       HILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSA  237
NTDB id 1086 NMV RS00245 WP 002218487.1      HILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGA  233
NTDB id 1116 NGFG RS10615 WP 003690200.1     HILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGA  233
NTDB id 1185 GTF74 RS11940 WP 000350195.1    HILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSA  233
NTDB id 1176 A1552VC RS01160 WP 000350195.1  HILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSA  233
NTDB id 1283 ACE17W RS02630 WP 010947729.1   HILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSA  233
NTDB id 1259 GCO85 RS10305 WP 010947729.1    HILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSA  233
NTDB id 1194 PAKAF RS01995 WP 003084552.1    HILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1202 PSJM300 01600 AFN76400.1        HILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1020 ACIAD RS04210 WP 011182164.1    HILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    HILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1060 ABD1 RS04380 WP 000355489.1     HILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1040 HON27 RS13360 WP 000355489.1    HILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
consensus                                    !!***!*!*!!*! ********!*****! **  !!***!!**!!*!!*!!*!* !** *!***!!!!!!***!!!***!
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NTDB id 1203 PSJM300 01605 AFN76401.1        NQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDCKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRS.TDL  312
NTDB id 1019 ACIAD RS04205 WP 004922051.1    NQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARS.GEL  313
NTDB id 345219 CCANL266 RS08560 WP 172234038.1 AQTINRIVDSFEGSEQEQIRNMLSFSLNAIVSQCLIPR.NGGGRVAIHEILINNFAIANLIRENKNHQIYSQMQLNQQAT  318
NTDB id 1307 DR RS10055 WP 010888596.1       PESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTG.ARE  316
NTDB id 1086 NMV RS00245 WP 002218487.1      AKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG.QAS  312
NTDB id 1116 NGFG RS10615 WP 003690200.1     AKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG.QAS  312
NTDB id 1185 GTF74 RS11940 WP 000350195.1    AKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTG.AAH  311
NTDB id 1176 A1552VC RS01160 WP 000350195.1  AKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTG.AAH  311
NTDB id 1283 ACE17W RS02630 WP 010947729.1   TKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG.QAK  311
NTDB id 1259 GCO85 RS10305 WP 010947729.1    TKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG.QAK  311
NTDB id 1194 PAKAF RS01995 WP 003084552.1    AKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTG.GSL  311
NTDB id 1202 PSJM300 01600 AFN76400.1        AKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTG.GSL  311
NTDB id 1020 ACIAD RS04210 WP 011182164.1    AKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTG.ATH  311
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANH  311
NTDB id 1060 ABD1 RS04380 WP 000355489.1     AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANH  311
NTDB id 1040 HON27 RS13360 WP 000355489.1    AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANH  311
consensus                                    *****!*************** *!***! ****! !***  ***!****!****  *******!!* ******** **** *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      GMQTFDQALYQLVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.........DME.............  368
NTDB id 1203 PSJM300 01605 AFN76401.1            GMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.........EMSDDDPGRSFR..  381
NTDB id 1019 ACIAD RS04205 WP 004922051.1        GMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.........KMTFDGQRRNLK..  383
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NTDB id 1307 DR RS10055 WP 010888596.1           GMVTMDAYLAGLFRRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRG  392
NTDB id 1086 NMV RS00245 WP 002218487.1          GMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....................................................  347
NTDB id 1116 NGFG RS10615 WP 003690200.1         GMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....................................................  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 GCO85 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 1203 PSJM300 01605 AFN76401.1            ..........................  381
NTDB id 1019 ACIAD RS04205 WP 004922051.1        ..........................  383
NTDB id 345219 CCANL266 RS08560 WP 172234038.1   ..........................  355
NTDB id 1307 DR RS10055 WP 010888596.1           AAAPATPAAPAAGRSEPGRAGGFGRR  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
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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