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NTDB id 1203 PSJM300 01605 AFN76401.1          ....MEFEKLLR.L.MVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAIS   74
NTDB id 1019 ACIAD RS04205 WP 004922051.1      ....MDFNDLLN.L.MAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAIL   74
NTDB id 1016038 ABXT47 RS05225 WP 415308079.1  ......MFEKLEELAKNNKKISDFHIRSGSPLAYRQTGEVVTVKDIVVKAQDLQDLMSTNCNETETKKFQETHELDSAVM   74
NTDB id 1307 DR RS10055 WP 010888596.1         MTSGIDITDILR.L.AADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFA   78
NTDB id 1116 NGFG RS10615 WP 003690200.1       ....MQITDLLA.F.GAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFE   74
NTDB id 1086 NMV RS00245 WP 002218487.1        ....MQITDLLA.F.GAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFE   74
NTDB id 1185 GTF74 RS11940 WP 000350195.1      ....MDIAELLE.F.SVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFE   74
NTDB id 1176 A1552VC RS01160 WP 000350195.1    ....MDIAELLE.F.SVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFE   74
NTDB id 1283 ACE17W RS02630 WP 010947729.1     ....MDIAELLA.F.SVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFE   74
NTDB id 1259 GCO85 RS10305 WP 010947729.1      ....MDIAELLA.F.SVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFE   74
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NTDB id 1194 PAKAF RS01995 WP 003084552.1      ....MDITELLA.F.SAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFE   74
NTDB id 1020 ACIAD RS04210 WP 011182164.1      ....MDITELLA.F.SVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFE   74
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      ....MDITELLA.F.SVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFE   74
NTDB id 1060 ABD1 RS04380 WP 000355489.1       ....MDITELLA.F.SVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFE   74
NTDB id 1040 HON27 RS13360 WP 000355489.1      ....MDITELLA.F.SVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFE   74
consensus                                          *** **!* * **** *!!*****!*********!********* * * **  ********************* *! *****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1    RD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTG   151
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NTDB id 1019 ACIAD RS04205 WP 004922051.1      NREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKG   154
NTDB id 1016038 ABXT47 RS05225 WP 415308079.1  LSG..LRFRANFYKTINGPAAVLRRVESVIPEMSQFDLPDVLYDIIDMHKGLVLVTGPTGSGKSTTLAAIINEINKTRTA   152
NTDB id 1307 DR RS10055 WP 010888596.1         LGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKL   157
NTDB id 1116 NGFG RS10615 WP 003690200.1       LPN.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPA   153
NTDB id 1086 NMV RS00245 WP 002218487.1        LPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPA   153
NTDB id 1185 GTF74 RS11940 WP 000350195.1      LPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNK   153
NTDB id 1176 A1552VC RS01160 WP 000350195.1    LPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNK   153
NTDB id 1283 ACE17W RS02630 WP 010947729.1     IAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYE   153
NTDB id 1259 GCO85 RS10305 WP 010947729.1      IAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYE   153
NTDB id 1202 PSJM300 01600 AFN76400.1          VPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYH   153
NTDB id 1194 PAKAF RS01995 WP 003084552.1      VPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYH   153
NTDB id 1020 ACIAD RS04210 WP 011182164.1      VPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYD   153
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      VPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
NTDB id 1060 ABD1 RS04380 WP 000355489.1       VPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
NTDB id 1040 HON27 RS13360 WP 000355489.1      VPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYD   153
consensus                                      *** **!!!****** ** **!*!**** ******* ** *** **    *!*****!*!!*!!!!**!*** **!   *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1    HILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNA  231
NTDB id 1203 PSJM300 01605 AFN76401.1          HISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNA  233
NTDB id 1019 ACIAD RS04205 WP 004922051.1      HITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNA  234
NTDB id 1016038 ABXT47 RS05225 WP 415308079.1  HITVEDPVEFVHKDAKSIVSQREVGKQTQSFASALKAALREDPDVILVGEMRDLETVGLALTAAETGHLVFGTLHTSGA  232
NTDB id 1307 DR RS10055 WP 010888596.1         HILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSA  237
NTDB id 1116 NGFG RS10615 WP 003690200.1       HILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGA  233
NTDB id 1086 NMV RS00245 WP 002218487.1        HILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGA  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 1202 PSJM300 01600 AFN76400.1          HILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSA  233
NTDB id 1194 PAKAF RS01995 WP 003084552.1      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 1177 A1552VC RS01165 WP 000422572.1    NQALERILHLVPKEQRERQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVG  311
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NTDB id 1019 ACIAD RS04205 WP 004922051.1      NQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELG  314
NTDB id 1016038 ABXT47 RS05225 WP 415308079.1  PNTINRIIDVFPPEQQAQIRAQISTSLKMVVTQRLLKTKDGQGRVAAFEVMKCTAPIQNLIREAKIHQIPSIMQTSVRDG  312
NTDB id 1307 DR RS10055 WP 010888596.1         PESIDRIVDVFPEEQQFQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREG  317
NTDB id 1116 NGFG RS10615 WP 003690200.1       AKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASG  313
NTDB id 1086 NMV RS00245 WP 002218487.1        AKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASG  313
NTDB id 1185 GTF74 RS11940 WP 000350195.1      AKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHG  312
NTDB id 1176 A1552VC RS01160 WP 000350195.1    AKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHG  312
NTDB id 1283 ACE17W RS02630 WP 010947729.1     TKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKG  312
NTDB id 1259 GCO85 RS10305 WP 010947729.1      TKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKG  312
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NTDB id 1194 PAKAF RS01995 WP 003084552.1      AKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLG  312
NTDB id 1020 ACIAD RS04210 WP 011182164.1      AKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHG  312
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHG  312
NTDB id 1060 ABD1 RS04380 WP 000355489.1       AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHG  312
NTDB id 1040 HON27 RS13360 WP 000355489.1      AKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHG  312
consensus                                      *****!*************** *****! ****! !***   ***!****!************!!* ******* *****   !
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NTDB id 1177 A1552VC RS01165 WP 000422572.1     MQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI........DME...........   368
NTDB id 1203 PSJM300 01605 AFN76401.1           MQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGS.ETDGEHLTSVS.QGLTL........EMSDDDPGRSFR..   381
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NTDB id 1307 DR RS10055 WP 010888596.1          MVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGG.....ASMTPAAPPVPAYNSASSSSTGRGGDFGRG   392
NTDB id 1116 NGFG RS10615 WP 003690200.1        MQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.....................................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1         MQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....................................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1       MQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....................................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1     MQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....................................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1      MQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....................................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1       MQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....................................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1           MQTLDSCLKGLLAKGLISRDSAKEKAKQP.ENF.....................................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1       MQTLDMCLKGLVAKGLISRENAREKAKIP.ENF.....................................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1       MTTLDQSLKQLLAKGIINLPTARAVAKSP.ESF.....................................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1       MTTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL....................................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1        MTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL....................................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1       MTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL....................................................   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 1016038 ABXT47 RS05225 WP 415308079.1   ..........................   337
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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
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NTDB id 1194 PAKAF RS01995 WP 003084552.1       ..........................   344
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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