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NTDB id 1177 A1552VC RS01165 WP 000422572.1  ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELR.AQGEA.LSVADVTALLHAMMDDARQAEFKQTREANFAV.V   73
NTDB id 1203 PSJM300 01605 AFN76401.1        ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKIL.PVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISA   75
NTDB id 34447 DD1591 RS03785 WP 012768520.1  ....MDVSEWVNASVKQNVSDLHLCSGHPPVWRIDGQLVTDVTRPPLQHAELEQWCQHWLEPACEQQLQQYGQTDCALTL   76
NTDB id 1307 DR RS10055 WP 010888596.1       MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYD.AQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFAL   79
NTDB id 1086 NMV RS00245 WP 002218487.1      ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMR.RINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1116 NGFG RS10615 WP 003690200.1     ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMR.RINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVR.KLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1176 A1552VC RS01160 WP 000350195.1 ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVR.KLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1283 ACE17W RS02630 WP 010947729.1  ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLR.KINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1259 GC085 RS10305 WP 010947729.1   ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLR.KINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1202 PSJM300 01600 AFN76400.1       ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVR.RINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1194 PAKAF RS01995 WP 003084552.1   ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVR.RINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1020 ACIAD RS04210 WP 011182164.1   ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVR.RINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1081 FDQ49 RS05335 WP 006581387.1   ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVR.RINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1060 ABD1 RS04380 WP 000355489.1    ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVR.RINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1040 HON27 RS13360 WP 000355489.1   ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVR.RINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
consensus                                    ************* *!!*****!********!*** ***** * * **  ************** *********

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NTDB id 34447 DD1591 RS03785 WP 012768520.1  PGGQRLRANLFMQRHGLSAALRLIPSQQPDLPALGAPPVVAELVDRDDGLILVTGATGSGKSTTLAAMIAALNQRRARHI  156
NTDB id 1307 DR RS10055 WP 010888596.1       GDKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI  159
NTDB id 1086 NMV RS00245 WP 002218487.1      PNVARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI  155
NTDB id 1116 NGFG RS10615 WP 003690200.1     PNVARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI  155
NTDB id 1185 GTF74 RS11940 WP 000350195.1    PNVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHI  155
NTDB id 1176 A1552VC RS01160 WP 000350195.1 PNVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHI  155
NTDB id 1283 ACE17W RS02630 WP 010947729.1  ANLARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI  155
NTDB id 1259 GC085 RS10305 WP 010947729.1   ANLARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI  155
NTDB id 1202 PSJM300 01600 AFN76400.1       PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI  155
NTDB id 1194 PAKAF RS01995 WP 003084552.1   PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI  155
NTDB id 1020 ACIAD RS04210 WP 011182164.1   PNLARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDHI  155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1   PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI  155
NTDB id 1060 ABD1 RS04380 WP 000355489.1    PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI  155
NTDB id 1040 HON27 RS13360 WP 000355489.1   PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI  155
consensus                                   ****!*!***!** *******!*!** ********** *** *** **!**!**!*!!*!!!!**!******!   *   !!
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NTDB id 34447 DD1591 RS03785 WP 012768520.1   ITLEDPIEFLHTSRCCLIQQREIGRHSEGFAGALRAALREDPDVLLLGELRDGETIRLALTAAETGHLVLATLHTRRAVQ   236
NTDB id 1307 DR RS10055 WP 010888596.1        LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE   239
NTDB id 1086 NMV RS00245 WP 002218487.1       LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK   235
NTDB id 1116 NGFG RS10615 WP 003690200.1      LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK   235
NTDB id 1185 GTF74 RS11940 WP 000350195.1     LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAK   235
NTDB id 1176 A1552VC RS01160 WP 000350195.1   LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAAK   235
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NTDB id 1202 PSJM300 01600 AFN76400.1         LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
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NTDB id 1020 ACIAD RS04210 WP 011182164.1     LTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1060 ABD1 RS04380 WP 000355489.1      LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1040 HON27 RS13360 WP 000355489.1     LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
consensus                                     ***!!!!!!*! *******!!!*****  **   !!***!!**!!**!*!!*!*  !!***!***!!!!!!***!!!***!**
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NTDB id 1203 PSJM300 01605 AFN76401.1         ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGMQ   315
NTDB id 34447 DD1591 RS03785 WP 012768520.1   AVDRLVDVFPAEEKAFVRAQLAASLQAVVAQKLLPG.AQRGRVALFEILLATPAVSNLIREGKTHQLPSLLQTGSQVGMQ   315
NTDB id 1307 DR RS10055 WP 010888596.1        SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV   319
NTDB id 1086 NMV RS00245 WP 002218487.1       TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ   315
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NTDB id 1259 GC085 RS10305 WP 010947729.1     TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ   314
NTDB id 1202 PSJM300 01600 AFN76400.1         TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ   314
NTDB id 1194 PAKAF RS01995 WP 003084552.1     TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ   314
NTDB id 1020 ACIAD RS04210 WP 011182164.1     TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT   314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
NTDB id 1040 HON27 RS13360 WP 000355489.1     TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
consensus                                     ***!*****!**********!***!*****! !***  **!!****!**********!!!* *******  *****  !!*
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDD.YGSG..SLQNVKI....DME...................   368
NTDB id 1203 PSJM300 01605 AFN76401.1         TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETD.GEHLTSVSQGLTL....EMSDDDPGRSFR.........   381
NTDB id 34447 DD1591 RS03785 WP 012768520.1   TFEQSYRQRCREGALPDDGADDAAS..................................................   340
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NTDB id 1086 NMV RS00245 WP 002218487.1       TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF...........................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1      TMDQSLQSLVRQGLIAPEAARRRAQNSESMSF...........................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1     TMEQNAKQLIARGVVDAQEVQSKIELDLKAF............................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1   TMEQNAKQLIARGVVDAQEVQSKIELDLKAF............................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1    TLDQHLTELVNKNIISKHTAHEAALNK.SLF............................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1     TLDQHLTELVNKNIISKHTAHEAALNK.SLF............................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         TLDSCLKGLLAKGLISRDSAKEKAKQP.ENF............................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     TLDMCLKGLVAKGLISRENAREKAKIP.ENF............................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     TLDQSLKQLLAKGIINLPTARAVAKSP.ESF............................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     TLDQSLKGLVSRGVISPQTARTAAKQP.ESFL...........................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TLDQSLKGLVARGVISPQTARTAAKQP.ESFL...........................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     TLDQSLKGLVARGVISPQTARTAAKQP.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 34447 DD1591 RS03785 WP 012768520.1   ....................   340
NTDB id 1307 DR RS10055 WP 010888596.1        AAPAAGRSEPGRAGGFGRR   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
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NTDB id 1194 PAKAF RS01995 WP 003084552.1     ....................   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