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NTDB id 1177 A1552VC RS01165 WP 000422572.1      ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEALSVAD.VTALLHAMMDDARQAEFKQTREANFAVVR.   74
NTDB id 1019 ACIAD RS04205 WP 004922051.1        ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR   76
NTDB id 296629 SM212159 RS15710 WP 001055657.1   ....MNMEEIVTLSVKHNVSDLHLCNAWPARWRKQGRME...TAPFTAPDVDRLLLDWLNDAQQYQWRTHGQLDFAVSL.   72
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 GC085 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
NTDB id 1020 ACIAD RS04210 WP 011182164.1        ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEV.   75
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NTDB id 1040 HON27 RS13360 WP 000355489.1        ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV.   75
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV.   75
consensus                                            ************ *!!*************!******** *** ** ********************** ** *!****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      .DSGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGHI   153
NTDB id 1019 ACIAD RS04205 WP 004922051.1        EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHI   156
NTDB id 296629 SM212159 RS15710 WP 001055657.1   SGTRRLRASAFTHQQGTSLAIRLLPERCPDLAEIQTPPIVPALLASENGLILVTGATGCGKSTTLAAMVGHLNQHADKHI   152
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 1194 PAKAF RS01995 WP 003084552.1        PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI   155
NTDB id 1202 PSJM300 01600 AFN76400.1            PGVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI   155
NTDB id 1020 ACIAD RS04210 WP 011182164.1        PNLARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDHI   155
NTDB id 1060 ABD1 RS04380 WP 000355489.1         PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
NTDB id 1040 HON27 RS13360 WP 000355489.1        PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        PNVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
consensus                                        ****!*!***!** ** ****!**** ********** *** **  **!*****!*!!*!!!!**!******!  *  !!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      LTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQ   233
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NTDB id 296629 SM212159 RS15710 WP 001055657.1  LTLEDPIEYRYTSKRCLIQQREIGQHCATFAAGLRAALREDPDVILLGELRDSETIRLALTAAETGHLVLATLHTRGAAQ   232
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
NTDB id 1283 ACE17W RS02630 WP 010947729.1       LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK   235
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NTDB id 1020 ACIAD RS04210 WP 011182164.1        LTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1060 ABD1 RS04380 WP 000355489.1         LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1040 HON27 RS13360 WP 000355489.1        LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        LTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
consensus                                        *!*!!!!!*** *******!!!***** **  *!***!!**!!*!!*!!*!* !****!***!!!!!!***!!!*****!**
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ   313
NTDB id 1019 ACIAD RS04205 WP 004922051.1        TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ   316
NTDB id 296629 SM212159 RS15710 WP 001055657.1  AVERLVDSFPAQEKEPVRSQLAGSLRAVLSQKLEVD.RQDGRVALFELLINTPATGNLIREGKLHQLAHVIQTGQQQGMM   311
NTDB id 1307 DR RS10055 WP 010888596.1           SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV   319
NTDB id 1086 NMV RS00245 WP 002218487.1          TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ   315
NTDB id 1116 NGFG RS10615 WP 003690200.1         TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ   315
NTDB id 1185 GTF74 RS11940 WP 000350195.1        TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ   314
NTDB id 1176 A1552VC RS01160 WP 000350195.1      TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ   314
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NTDB id 1202 PSJM300 01600 AFN76400.1            TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ   314
NTDB id 1020 ACIAD RS04210 WP 011182164.1        TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT   314
NTDB id 1060 ABD1 RS04380 WP 000355489.1         TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
NTDB id 1040 HON27 RS13360 WP 000355489.1        TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT   314
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consensus                                        ***!*************!***! *!**! !***  ***!****!*********!!* ******* *****  !!*
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NTDB id 1177 A1552VC RS01165 WP 000422572.1      TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGSGSLQ...NVKIDME.......................  368
NTDB id 1019 ACIAD RS04205 WP 004922051.1        TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERKMTFD.......GQRRNLK......  383
NTDB id 296629 SM212159 RS15710 WP 001055657.1   TFAQSAQWRQAQGRL.........................................................................  326
NTDB id 1307 DR RS10055 WP 010888596.1           TMDAYLAGLFRRHLITYDKGLERAID.PKEFARL..ANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAAP  396
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       TLDQHLTELVNKNISKHTAHEAALN.KSLF.........................................................  344
NTDB id 1259 GCO85 RS10305 WP 010947729.1        TLDQHLTELVNKNISKHTAHEAALN.KSLF.........................................................  344
NTDB id 1194 PAKAF RS01995 WP 003084552.1        TLDMCLKGLVAKGLISRENAREKAKI.PENF........................................................  344
NTDB id 1202 PSJM300 01600 AFN76400.1            TLDSCLKGLLAKGLISRDSAKEKAKQ.PENF........................................................  344
NTDB id 1020 ACIAD RS04210 WP 011182164.1        TLDQSLKQLLAKGIINLPTARAVAKS.PESF........................................................  344
NTDB id 1060 ABD1 RS04380 WP 000355489.1         TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.......................................................  345
NTDB id 1040 HON27 RS13360 WP 000355489.1        TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.......................................................  345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.......................................................  345
consensus                                        !*** *  ** *****   *   *      *

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NTDB id 1177 A1552VC RS01165 WP 000422572.1      .......................  368
NTDB id 1019 ACIAD RS04205 WP 004922051.1        .......................  383
NTDB id 296629 SM212159 RS15710 WP 001055657.1   .......................  326
NTDB id 1307 DR RS10055 WP 010888596.1           ATPAAPAAGRSEPGRAGGFGRR   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 1060 ABD1 RS04380 WP 000355489.1         .......................  345
NTDB id 1040 HON27 RS13360 WP 000355489.1        .......................  345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        .......................  345
consensus
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X non conserved
X similar
X ≥ 50% conserved