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NTDB id 1203 PSJM300 01605 AFN76401.1        ....MEFEKLLR.LMVEKGGSDLFITAGVPPSMKVNGKILPVNK..TPMSPEMTRETVHGVMNEQQRREFTENHECNFAI   73
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ....MDFNDLLN.LMAKHKASDLFITAGVEPSLKINGEITPVSK..TKLDGDMIAQLIDSITTQKQRQEFIETHECNFAI   73
NTDB id 32641 HORE RS03180 WP 041605819.1    ....MDIKEFLKKFVEDQHISDLHLTVNSKPVVRYDGKLKVFEEFSGRIGFEDMQNITKELMTDDQWQQFQEKGELDFSY   76
NTDB id 1307 DR RS10055 WP 010888596.1       MTSGIDITDILR.LAADKGASDIILAAGLPPQFKLSGDYDAQGF..EPLSASDTRKLMYSMMNERQQRIFEEKRELDFSF   77
NTDB id 1086 NMV RS00245 WP 002218487.1      ....MQITDLLA.FGAKNKASDLHLSSGISPMIRVHGDMRRINL..PEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSF   73
NTDB id 1116 NGFG RS10615 WP 003690200.1     ....MQITDLLA.FGAKNKASDLHLSSGISPMIRVHGDMRRINL..PEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSF   73
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ....MDIAELLE.FSVKHNASDLHLSAGVPPMVRIDGEVRKLGV..PAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSF   73
NTDB id 1176 A1552VC RS01160 WP 000350195.1 ....MDIAELLE.FSVKHNASDLHLSAGVPPMVRIDGEVRKLGV..PAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSF   73
NTDB id 1283 ACE17W RS02630 WP 010947729.1  ....MDIAELLA.FSVKNKSSDLHISAGMPPMIRVDGDLRKINL..PPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSF   73
NTDB id 1259 GC085 RS10305 WP 010947729.1    ....MDIAELLA.FSVKNKSSDLHISAGMPPMIRVDGDLRKINL..PPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSF   73
NTDB id 1202 PSJM300 01600 AFN76400.1        ....MDITELLA.FSAKQGASDLHLSSGLPPMIRVDGDVRRINL..PAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSF   73
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NTDB id 1020 ACIAD RS04210 WP 011182164.1    ....MDITELLA.FSVQNRASDLHLSAGIPPMIRVDGEVRRINL..PAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ....MDITELLA.FSVKNGASDLHLSAGMPPMIRVDGEVRRINL..PALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ....MDITELLA.FSVKNGASDLHLSAGMPPMIRVDGEVRRINL..PALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
NTDB id 1040 HON27 RS13360 WP 000355489.1    ....MDITELLA.FSVKNGASDLHLSAGMPPMIRVDGEVRRINL..PALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSF   73
consensus                                      *** **!* ***** *!!**********!*******  * * * **  ********** ******* *! *!**

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NTDB id 1019 ACIAD RS04205 WP 004922051.1    LNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSK  153
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NTDB id 1307 DR RS10055 WP 010888596.1       ALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKK  156
NTDB id 1086 NMV RS00245 WP 002218487.1      ELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQP  152
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NTDB id 1176 A1552VC RS01160 WP 000350195.1 ELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHN  152
NTDB id 1283 ACE17W RS02630 WP 010947729.1  EIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRY  152
NTDB id 1259 GC085 RS10305 WP 010947729.1    EIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRY  152
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NTDB id 1194 PAKAF RS01995 WP 003084552.1    EVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKY  152
NTDB id 1020 ACIAD RS04210 WP 011182164.1    EVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRY  152
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NTDB id 1060 ABD1 RS04380 WP 000355489.1     EVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY  152
NTDB id 1040 HON27 RS13360 WP 000355489.1    EVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRY  152
consensus                                    **** **!!!!***** ** ****!*!** ********** *** **   *!*****!*!!*!!*!**!*** **!  *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  GHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANN  230
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NTDB id 1019 ACIAD RS04205 WP 004922051.1    GHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANN  233
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NTDB id 1086 NMV RS00245 WP 002218487.1      AHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTG  232
NTDB id 1116 NGFG RS10615 WP 003690200.1     AHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTG  232
NTDB id 1185 GTF74 RS11940 WP 000350195.1    KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS  232
NTDB id 1176 A1552VC RS01160 WP 000350195.1 KHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSS  232
NTDB id 1283 ACE17W RS02630 WP 010947729.1   EHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNS  232
NTDB id 1259 GC085 RS10305 WP 010947729.1    EHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNS  232
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NTDB id 1194 PAKAF RS01995 WP 003084552.1    HHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1020 ACIAD RS04210 WP 011182164.1    DHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    DHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
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NTDB id 1040 HON27 RS13360 WP 000355489.1    DHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTS  232
consensus                                     !!***!!!!!**!  ******!!!****! **  *!***!**!!*!!*!!*!* !** *!***!!!!!!***!!!***
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  ANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEV  310
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NTDB id 1307 DR RS10055 WP 010888596.1       APESIDRIVDVFPEEQQFQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGARE  316
NTDB id 1086 NMV RS00245 WP 002218487.1      AAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQAS  312
NTDB id 1116 NGFG RS10615 WP 003690200.1     AAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQAS  312
NTDB id 1185 GTF74 RS11940 WP 000350195.1    AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH  311
NTDB id 1176 A1552VC RS01160 WP 000350195.1 AAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAH  311
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAK  311
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NTDB id 1202 PSJM300 01600 AFN76400.1        AAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSL  311
NTDB id 1194 PAKAF RS01995 WP 003084552.1    AAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSL  311
NTDB id 1020 ACIAD RS04210 WP 011182164.1    AAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATH  311
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH  311
NTDB id 1060 ABD1 RS04380 WP 000355489.1     AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH  311
NTDB id 1040 HON27 RS13360 WP 000355489.1    AAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANH  311
consensus                                    !*****!*************** *!***! ****! !***  ***!****!***********!!* ******* *****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   GMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI........DME...........   368
NTDB id 1203 PSJM300 01605 AFN76401.1         GMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL........EMSDDDPGRSFR..   381
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NTDB id 32641 HORE RS03180 WP 041605819.1     GMITMDNYTLDLLSKSLINKDTALRRANDPEYIKKRINAVRV.......................................   357
NTDB id 1307 DR RS10055 WP 010888596.1        GMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLG....GASMTPAAPPVPAYNSASSSSTGRGGDFGRG   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    GMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1     GMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         GMQTLDSCLKGLLAKGLISRDSAKEKAKQP.ENF................................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     GMQTLDMCLKGLVAKGLISRENAREKAKIP.ENF................................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     GMTTLDQSLKQLLAKGIINLPTARAVAKSP.ESF................................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     GMTTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL...............................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      GMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL...............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     GMTTLDQSLKGLVARGVISPQTARTAAKQP.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 32641 HORE RS03180 WP 041605819.1     ..........................   357
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 GC085 RS10305 WP 010947729.1     ..........................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         ..........................   344
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NTDB id 1020 ACIAD RS04210 WP 011182164.1     ..........................   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