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NTDB id 1019 ACIAD RS04205 WP 004922051.1      ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR   76
NTDB id 1307 DR RS10055 WP 010888596.1         MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG   80
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   ..MDYIIEDLMEEVVERKGSDIHISAGLPPYIRISGHLTATDRDPLTPEETQRLVFAMLNNNQRKTFEQNWELDCSYGVK   78
NTDB id 1116 NGFG RS10615 WP 003690200.1       ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFELP   76
NTDB id 1086 NMV RS00245 WP 002218487.1        ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFELP   76
NTDB id 1185 GTF74 RS11940 WP 000350195.1      ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFELP   76
NTDB id 1176 A1552VC RS01160 WP 000350195.1    ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFELP   76
NTDB id 1283 ACE17W RS02630 WP 010947729.1     ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEIA   76
NTDB id 1259 GCO85 RS10305 WP 010947729.1      ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEIA   76
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NTDB id 1194 PAKAF RS01995 WP 003084552.1      ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP   76
NTDB id 1020 ACIAD RS04210 WP 011182164.1      ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1060 ABD1 RS04380 WP 000355489.1       ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1040 HON27 RS13360 WP 000355489.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
consensus                                          ************* *!!*****!**!*****!******** *** ** ***************!****** *! *******
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NTDB id 1307 DR RS10055 WP 010888596.1         D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI   159
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   G.LARFRVNVYKDRGTVAACLRVLSAKIPDMDDLKLPPIVRDLSEKPRGMVLVTGPTGSGKSTTLAAMIQTINKTRAEHI   157
NTDB id 1116 NGFG RS10615 WP 003690200.1       N.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   155
NTDB id 1086 NMV RS00245 WP 002218487.1        N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   155
NTDB id 1185 GTF74 RS11940 WP 000350195.1      N.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHI   155
NTDB id 1176 A1552VC RS01160 WP 000350195.1    N.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKHI   155
NTDB id 1283 ACE17W RS02630 WP 010947729.1     N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI   155
NTDB id 1259 GCO85 RS10305 WP 010947729.1      N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI   155
NTDB id 1202 PSJM300 01600 AFN76400.1          G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI   155
NTDB id 1194 PAKAF RS01995 WP 003084552.1      G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHHI   155
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NTDB id 1060 ABD1 RS04380 WP 000355489.1       N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1      N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
consensus                                      * **!!!!***** *******!**** ********** ******* **!*****!*!!*!!!!*!!*******!   *   !!
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NTDB id 1307 DR RS10055 WP 010888596.1         LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE  239
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   LTVEDPIEFVYESVKSVIHQRQVGEDTKSFAYALKSALREDPDVILVGEMRDLETIQLAVTAAETGHLVFGTLHTSSAAQ  237
NTDB id 1116 NGFG RS10615 WP 003690200.1       LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK  235
NTDB id 1086 NMV RS00245 WP 002218487.1        LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK  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
NTDB id 1259 GCO85 RS10305 WP 010947729.1      LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK  235
NTDB id 1202 PSJM300 01600 AFN76400.1          LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK  235
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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 1203 PSJM300 01605 AFN76401.1          ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTP....DGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTD  311
NTDB id 1019 ACIAD RS04205 WP 004922051.1      TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTH....DGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGE  312
NTDB id 1307 DR RS10055 WP 010888596.1         SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRA....DGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAR  315
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   TVDRMVDVFPPAQQGQIRVQLSNSLVAVLSQTLIPRVNPKPGEFGRVMAQEIMIVTPAISNLIREGKTAQMYGFIQTGGK  317
NTDB id 1116 NGFG RS10615 WP 003690200.1       TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTH....DGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA  311
NTDB id 1086 NMV RS00245 WP 002218487.1        TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTH....DGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA  311
NTDB id 1185 GTF74 RS11940 WP 000350195.1      TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.....VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAA  310
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NTDB id 1259 GCO85 RS10305 WP 010947729.1      TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.....NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQA  310
NTDB id 1202 PSJM300 01600 AFN76400.1          TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.....VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGS  310
NTDB id 1194 PAKAF RS01995 WP 003084552.1      TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.....IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGS  310
NTDB id 1020 ACIAD RS04210 WP 011182164.1      TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.....EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGAT  310
NTDB id 1060 ABD1 RS04380 WP 000355489.1       TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.....NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN  310
NTDB id 1040 HON27 RS13360 WP 000355489.1      TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.....NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN  310
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.....NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN  310
consensus                                      ***!****!**********!***!  ****!*!***       ***!****!***********!!*  *******  *****
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NTDB id 1203 PSJM300 01605 AFN76401.1          LGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEH.LT....SVS.QGLTLEMSDDDPGRSFR....   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1      LGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPL.DN....RERMSEMERKMTFDGQRRNLK....   383
NTDB id 1307 DR RS10055 WP 010888596.1         EGMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASSS.STGRGGDFGRGAA   394
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   ESMQTLESKLADLYLDGSISFESAVSKTSRPEELHRLVGPNPANVVRK........KGSYDIKKEIKSRSISG.......   382
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NTDB id 1086 NMV RS00245 WP 002218487.1        SGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....................................   347
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NTDB id 1176 A1552VC RS01160 WP 000350195.1    HGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF......................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1     KGMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.......................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1      KGMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF.......................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1          LGMQTLDSCLKGLLAKGLISRDSAKEKAKQP.ENF.......................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      LGMQTLDMCLKGLVAKGLISRENAREKAKIP.ENF.......................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1      HGMTTLDQSLKQLLAKGIINLPTARAVAKSP.ESF.......................................   344
NTDB id 1060 ABD1 RS04380 WP 000355489.1       HGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL......................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1      HGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL......................................   345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      HGMTTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL......................................   345
consensus                                       *!*!*** *  !* *****   *   *  * * *
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NTDB id 1203 PSJM300 01605 AFN76401.1          ........................   381
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NTDB id 1307 DR RS10055 WP 010888596.1         APATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 54821 PSE7367 RS08940 WP 041699378.1   ........................   382
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
NTDB id 1259 GCO85 RS10305 WP 010947729.1      ........................   344
NTDB id 1202 PSJM300 01600 AFN76400.1          ........................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      ........................   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