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NTDB id 1203 PSJM300 01605 AFN76401.1        ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVN.KTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISA   75
NTDB id 145328 IJ00 RS13480 WP 035153813.1   ..MEFMIEDLMEDMIEQGGSDMHLSAGLPPYFRVSGHLTPQDKYGVMTPDSCQRLIFSMLNNTQRKTLEQNWELDCSYGV   78
NTDB id 1307 DR RS10055 WP 010888596.1       MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQG.FEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFAL   79
NTDB id 1116 NGFG RS10615 WP 003690200.1     ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRIN.LPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1086 NMV RS00245 WP 002218487.1      ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRIN.LPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLG.VPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1176 A1552VC RS01160 WP 000350195.1 ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLG.VPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1283 ACE17W RS02630 WP 010947729.1  ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKIN.LPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
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NTDB id 1202 PSJM300 01600 AFN76400.1        ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRIN.LPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRIN.LPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRIN.LPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRIN.LPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRIN.LPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1040 HON27 RS13360 WP 000355489.1    ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRIN.LPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
consensus                                     ************* *!!*****!**!*****!****** ** * * ** *******!**!****** *! ******
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NTDB id 1203 PSJM300 01605 AFN76401.1        RGIGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI   155
NTDB id 145328 IJ00 RS13480 WP 035153813.1   KGLARFRVNVYKERGAYAACLRALSSKIPNFDKLGLPDIVREMSEKPRGLILVTGPTGSGKTTTLAAMIDLINRTRAEHI   158
NTDB id 1307 DR RS10055 WP 010888596.1       GDKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI   159
NTDB id 1116 NGFG RS10615 WP 003690200.1     PNVARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   155
NTDB id 1086 NMV RS00245 WP 002218487.1      PNVARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   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
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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 1203 PSJM300 01605 AFN76401.1          ISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ   235
NTDB id 145328 IJ00 RS13480 WP 035153813.1     LTVEDPIEFVYESIKSVVHQRQLGEDTKSFANALKAALREDPDIVLVGEMRDLETISLAISAAETGHLVFGTLHTSSASQ   238
NTDB id 1307 DR RS10055 WP 010888596.1         LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE   239
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 GC085 RS10305 WP 010947729.1      LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK   235
NTDB id 1202 PSJM300 01600 AFN76400.1          LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
NTDB id 1194 PAKAF RS01995 WP 003084552.1      LTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAAK   235
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          ALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPD....GKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTD   311
NTDB id 145328 IJ00 RS13480 WP 035153813.1     TVDRMIDVFPSERQQQVRVQLSNSLVAVFSQTLVPKKNPKPGEYGRVMAQEIMVITPAISNLIREGKTSQIYSAIQTGGK   318
NTDB id 1307 DR RS10055 WP 010888596.1         SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRAD....GQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAR   315
NTDB id 1116 NGFG RS10615 WP 003690200.1       TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHD....GNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA   311
NTDB id 1086 NMV RS00245 WP 002218487.1        TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHD....GNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA   311
NTDB id 1185 GTF74 RS11940 WP 000350195.1      TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.V....GGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAA   310
NTDB id 1176 A1552VC RS01160 WP 000350195.1    TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.V....GGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAA   310
NTDB id 1283 ACE17W RS02630 WP 010947729.1     TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.N....KGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQA   310
NTDB id 1259 GC085 RS10305 WP 010947729.1      TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.N....KGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQA   310
NTDB id 1202 PSJM300 01600 AFN76400.1          TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.V....GGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGS   310
NTDB id 1194 PAKAF RS01995 WP 003084552.1      TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.I....GGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGS   310
NTDB id 1020 ACIAD RS04210 WP 011182164.1      TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.E....GGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGAT   310
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.N....GGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
NTDB id 1060 ABD1 RS04380 WP 000355489.1       TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.N....GGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
NTDB id 1040 HON27 RS13360 WP 000355489.1      TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.N....GGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGAN   310
consensus                                      ***!****!!**********!***! ****!*!***       **!!****!**** *****!!!* ******* *****
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NTDB id 1203 PSJM300 01605 AFN76401.1         LGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.SETDGEHLTSVSQGLTL....EMSDDDPGRSFR.....   381
NTDB id 145328 IJ00 RS13480 WP 035153813.1    LGMQTLEKVLADYYKAGVISFEAAMSKTSKPDEIQRLIGGVPPQGNGAKAGAMKAH........................   374
NTDB id 1307 DR RS10055 WP 010888596.1        EGMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA   395
NTDB id 1116 NGFG RS10615 WP 003690200.1      SGMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.............................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1       SGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.............................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1     HGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF...............................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1   HGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF...............................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1    KGMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF...............................................   344
NTDB id 1259 GC085 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 1081 FDQ49 RS05335 WP 006581387.1     HGMTTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL..............................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      HGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL..............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     HGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL..............................................   345
consensus                                      !!*!*** *   ** *****    *    *     * *
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NTDB id 1203 PSJM300 01605 AFN76401.1         ........................   381
NTDB id 145328 IJ00 RS13480 WP 035153813.1    ........................   374
NTDB id 1307 DR RS10055 WP 010888596.1        PATPAAPAAGRSEPGRAGGFGRR    418
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 GC085 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 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