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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEA.L.SVADVTALLHAMMDDARQAEFKQTREANFAVVR   74
NTDB id 1203 PSJM300 01605 AFN76401.1         ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKT.PMSPEMTRETVHGVMNEQQRREFTENHECNFAISA   75
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKT.KLDGDMIAQLIDSITTQKQRQEFIETHECNFAILN   75
NTDB id 1123226 EL320 RS12045 WP 126531454.1  ....MDIDEFVALSVKHNASDLHLCTGQPLMMRIDGELQPLAGGAVLPAEAVQRLCAALLDEPQQRQLRRAGQLDCALTT   76
NTDB id 1307 DR RS10055 WP 010888596.1        MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFE.PLSASDTRKLMYSMMNERQQRIFEEKRELDFSFAL   79
NTDB id 1116 NGFG RS10615 WP 003690200.1      ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLP.EMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1086 NMV RS00245 WP 002218487.1       ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLP.EMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1185 GTF74 RS11940 WP 000350195.1     ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP.AFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1176 A1552VC RS01160 WP 000350195.1   ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP.AFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLP.PLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1259 GCO85 RS10305 WP 010947729.1     ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLP.PLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1202 PSJM300 01600 AFN76400.1         ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLP.AMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1194 PAKAF RS01995 WP 003084552.1     ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLP.PLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1020 ACIAD RS04210 WP 011182164.1     ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLP.AMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP.ALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1040 HON27 RS13360 WP 000355489.1     ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP.ALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLP.ALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
consensus                                        *** *********  *!!*****!********!*********  * * **  *********************** ** ******
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NTDB id 1203 PSJM300 01605 AFN76401.1         RG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGH   154
NTDB id 1019 ACIAD RS04205 WP 004922051.1     REKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGH   155
NTDB id 1123226 EL320 RS12045 WP 126531454.1  AG.GTRLRANFFYQRAGVSLALRRIAECCPTLEQLQAPAIIPALTEREEGLILVTGATGSGKSTTLAAMIDHINRHQRRH   155
NTDB id 1307 DR RS10055 WP 010888596.1        GD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLH   158
NTDB id 1116 NGFG RS10615 WP 003690200.1      PN.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   154
NTDB id 1086 NMV RS00245 WP 002218487.1       PN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   154
NTDB id 1185 GTF74 RS11940 WP 000350195.1     PN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1176 A1552VC RS01160 WP 000350195.1   PN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1283 ACE17W RS02630 WP 010947729.1    AN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1259 GCO85 RS10305 WP 010947729.1     AN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1202 PSJM300 01600 AFN76400.1         PG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1194 PAKAF RS01995 WP 003084552.1     PG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1020 ACIAD RS04210 WP 011182164.1     PN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDH   154
NTDB id 1060 ABD1 RS04380 WP 000355489.1      PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1040 HON27 RS13360 WP 000355489.1     PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
consensus                                     ** **!*!***!** ** ****!*!** ******* ** *** **    *!*****!*!!*!!!!**!******!  *  !
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NTDB id 1203 PSJM300 01605 AFN76401.1         IISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNAN  234
NTDB id 1019 ACIAD RS04205 WP 004922051.1     IITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNAN  235
NTDB id 1123226 EL320 RS12045 WP 126531454.1  ILTLEDPIEFIHHSALSLIQQRELGRDTRSFDAALSAALREDPDVILVGELRDSLSIRLALTAAETGHLVLATLHTRNAP  235
NTDB id 1307 DR RS10055 WP 010888596.1        ILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAP  238
NTDB id 1116 NGFG RS10615 WP 003690200.1      ILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAA  234
NTDB id 1086 NMV RS00245 WP 002218487.1       ILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAA  234
NTDB id 1185 GTF74 RS11940 WP 000350195.1     ILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAA  234
NTDB id 1176 A1552VC RS01160 WP 000350195.1   ILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHTSSAA  234
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSAT  234
NTDB id 1259 GCO85 RS10305 WP 010947729.1     ILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSAT  234
NTDB id 1202 PSJM300 01600 AFN76400.1         ILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
NTDB id 1194 PAKAF RS01995 WP 003084552.1     ILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
NTDB id 1020 ACIAD RS04210 WP 011182164.1     ILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
NTDB id 1040 HON27 RS13360 WP 000355489.1     ILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA  234
consensus                                     !***!!!!!!*! *******!!!*****! **  !!***!!**!!*!!*!!*!* *****!***!!!!!!***!!!***!*
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   QALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGM  312
NTDB id 1203 PSJM300 01605 AFN76401.1         QALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLGM  314
NTDB id 1019 ACIAD RS04205 WP 004922051.1     QTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGM  315
NTDB id 1123226 EL320 RS12045 WP 126531454.1  QAVERVIDVFPAEEKAYVRAQLASGLQAVIAQKLLRR.AEGGRTAVFEILTATPAVSSMIREGKTHQLASVLQSGAQAGM  314
NTDB id 1307 DR RS10055 WP 010888596.1        ESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM  318
NTDB id 1116 NGFG RS10615 WP 003690200.1      KTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGM  314
NTDB id 1086 NMV RS00245 WP 002218487.1       KTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGM  314
NTDB id 1185 GTF74 RS11940 WP 000350195.1     KTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM  313
NTDB id 1176 A1552VC RS01160 WP 000350195.1   KTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM  313
NTDB id 1283 ACE17W RS02630 WP 010947729.1    KTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGM  313
NTDB id 1259 GCO85 RS10305 WP 010947729.1     KTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGM  313
NTDB id 1202 PSJM300 01600 AFN76400.1         KTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGM  313
NTDB id 1194 PAKAF RS01995 WP 003084552.1     KTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGM  313
NTDB id 1020 ACIAD RS04210 WP 011182164.1     KTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGM  313
NTDB id 1060 ABD1 RS04380 WP 000355489.1      KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM  313
NTDB id 1040 HON27 RS13360 WP 000355489.1     KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM  313
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM  313
consensus                                     ****!*************** *!***! ****! !***  ***!****!************!!* ******* *****  !!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   QTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI........DME.............   368
NTDB id 1203 PSJM300 01605 AFN76401.1         QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGS.ETDGEHLTSVS.QGLTL........EMSDDDPGRSFR...   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRERMSEMER........KMTFDGQRRNLK...   383
NTDB id 1123226 EL320 RS12045 WP 126531454.1  QTFAQGMQQRIAQGIL.................................................................   330
NTDB id 1307 DR RS10055 WP 010888596.1        VTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGG.....ASMTPAAPPVPAYNSASSSSTGRGGDFGRGA   393
NTDB id 1116 NGFG RS10615 WP 003690200.1      QTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF...............................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1       QTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF...............................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1     QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1   QTMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1    QTLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1     QTLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         QTLDSCLKGLLAKGLISRDSAKEKAKQP.ENF................................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     QTLDMCLKGLVAKGLISRENAREKAKIP.ENF................................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     TTLDQSLKQLLAKGIINLPTARAVAKSP.ESF................................................   344
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TTLDQSLKGLVARGVISPQTARTAAKQP.ESFL...............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     TTLDQSLKGLVARGVISPQTARTAAKQP.ESFL...............................................   345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     TTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL...............................................   345
consensus                                     *!***  *   **  *****    *    *       *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..........................   368
NTDB id 1203 PSJM300 01605 AFN76401.1         ..........................   381
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NTDB id 1123226 EL320 RS12045 WP 126531454.1  ..........................   330
NTDB id 1307 DR RS10055 WP 010888596.1        AAPATPAAPAAGRSEPGRAGGFGRR   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 GCO85 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 1081 FDQ49 RS05335 WP 006581387.1     ..........................   345
consensus
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X non conserved
X similar
X ≥ 50% conserved