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NTDB id 1177 A1552VC RS01165 WP 000422572.1  ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL..SVADVTALLHAMMDDARQAEFKQTREANFAVVR   74
NTDB id 1203 PSJM300 01605 AFN76401.1        ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPM.SPEMTRETVHGVMNEQQRREFTENHECNFAISA   75
NTDB id 1019 ACIAD RS04205 WP 004922051.1    ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKL.DGDMIAQLIDSITTQKQRQEFIETHECNFAILN   75
NTDB id 354675 E4343 RS20220 WP 017893962.1  ....MDIDEFVALSVKHNASDLHLCTGHRPMLRIDGELQPLEGAEILSEARMQLLCNGVLQPLQRQQLQQQGQLDLALSL   76
NTDB id 1307 DR RS10055 WP 010888596.1       MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPL.SASDTRKLMYSMMNERQQRIFEEKRELDFSFAL   79
NTDB id 1086 NMV RS00245 WP 002218487.1      ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEM.SAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1116 NGFG RS10615 WP 003690200.1     ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEM.SAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFEL   75
NTDB id 1185 GTF74 RS11940 WP 000350195.1    ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAF.THSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1176 A1552VC RS01160 WP 000350195.1  ....MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAF.THSDVHRLIFEIMNDAQRSEYEEKLEVDFSFEL   75
NTDB id 1283 ACE17W RS02630 WP 010947729.1   ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPL.EHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1259 GCO85 RS10305 WP 010947729.1    ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPL.EHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEI   75
NTDB id 1202 PSJM300 01600 AFN76400.1        ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAM.DHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1194 PAKAF RS01995 WP 003084552.1    ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPL.EHKQVHALIYDIMNDKQRKDFEEFLETDFSFEV   75
NTDB id 1020 ACIAD RS04210 WP 011182164.1    ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAM.DHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPAL.EHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1060 ABD1 RS04380 WP 000355489.1     ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPAL.EHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   75
NTDB id 1040 HON27 RS13360 WP 000355489.1    ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPAL.EHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEV   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 354675 E4343 RS20220 WP 017893962.1  PG.DIRLRANFFLQNLGVSVALRLIAGQCPTLAALAAPDIIPALVRREDGLILVTGATGSGKSTTLAAMIDDINQHQRRH   155
NTDB id 1307 DR RS10055 WP 010888596.1       GD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLH   158
NTDB id 1086 NMV RS00245 WP 002218487.1      PN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   154
NTDB id 1116 NGFG RS10615 WP 003690200.1     PN.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   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 1081 FDQ49 RS05335 WP 006581387.1    PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1060 ABD1 RS04380 WP 000355489.1     PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1040 HON27 RS13360 WP 000355489.1    PN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
consensus                                    **  **!*!***!**  **  ****!*!**  **********  ***  **    *!******!*!!*!!!!**!*******!   *   !
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNAN   232
NTDB id 1203 PSJM300 01605 AFN76401.1         IISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNAN   234
NTDB id 1019 ACIAD RS04205 WP 004922051.1     IITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNAN   235
NTDB id 354675 E4343 RS20220 WP 017893962.1   ILTLEDPIEFIHRSRQCLIQQRELGRDSHSFDDALRAALREDPDVILLGELRDTATIRLALTAAETGHLVLATLHTRSAP   235
NTDB id 1307 DR RS10055 WP 010888596.1        ILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAP   238
NTDB id 1086 NMV RS00245 WP 002218487.1       ILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAA   234
NTDB id 1116 NGFG RS10615 WP 003690200.1      ILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAA   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 1081 FDQ49 RS05335 WP 006581387.1     ILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA   234
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA   234
NTDB id 1040 HON27 RS13360 WP 000355489.1     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     QTLERIIHFFDADRHQQTFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGM   315
NTDB id 354675 E4343 RS20220 WP 017893962.1   QAVDRLVDVFPAEEKPYVRAQLAGSLQAVIAQKLLSR.PGGGRVAIFEVLTATAAVSSMIREGKTHQLANVLQTGGQSGM   314
NTDB id 1307 DR RS10055 WP 010888596.1        ESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM   318
NTDB id 1086 NMV RS00245 WP 002218487.1       KTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGM   314
NTDB id 1116 NGFG RS10615 WP 003690200.1      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 1081 FDQ49 RS05335 WP 006581387.1     KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
NTDB id 1060 ABD1 RS04380 WP 000355489.1      KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
NTDB id 1040 HON27 RS13360 WP 000355489.1     KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGM   313
consensus                                     ****!*************** *!***!  ****!  !***   ***!****!************!!* *******  *****   !!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   QTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.........DME.............   368
NTDB id 1203 PSJM300 01605 AFN76401.1         QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.........EMSDDDPGRSFR....   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER........KMTFDGQRRNLK....   383
NTDB id 354675 E4343 RS20220 WP 017893962.1   QTFEQGLQQRISAGLLGGGQDTQNRD.....................................................   340
NTDB id 1307 DR RS10055 WP 010888596.1        VTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGL....GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA   394
NTDB id 1086 NMV RS00245 WP 002218487.1       QTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF..............................................   347
NTDB id 1116 NGFG RS10615 WP 003690200.1      QTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF..............................................   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 1081 FDQ49 RS05335 WP 006581387.1     TTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL..............................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TTLDQSLKGLVARGVISPQTARTAAKQP.ESFL..............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     TTLDQSLKGLVARGVISPQTARTAAKQP.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 354675 E4343 RS20220 WP 017893962.1   ..........................   340
NTDB id 1307 DR RS10055 WP 010888596.1        APATPAAPAAGRSEPGRAGGFGRR   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 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 ≥50% conserved