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NTDB id 1177 A1552VC RS01165 WP 000422572.1      ....MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL.SVADVTALLHAMMDDARQAEFKQTREANFAVVRD   75
NTDB id 1203 PSJM300 01605 AFN76401.1            ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISAR   76
NTDB id 1019 ACIAD RS04205 WP 004922051.1        ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR   76
NTDB id 1052001 ACE14F RS21570 WP 001055622.1    ....MNMEEIVALSVKHNVSDLHLCSAWPARWRIRGLMEA...APFDAPDVEELLREWLDDDQRAILLENGQLDFAVSLT   73
NTDB id 1307 DR RS10055 WP 010888596.1           MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG   80
NTDB id 1086 NMV RS00245 WP 002218487.1          ....MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFSFELP   76
NTDB id 1116 NGFG RS10615 WP 003690200.1         ....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 GC085 RS10305 WP 010947729.1        ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEIA   76
NTDB id 1202 PSJM300 01600 AFN76400.1            ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP   76
NTDB id 1194 PAKAF RS01995 WP 003084552.1        ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP   76
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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 1203 PSJM300 01605 AFN76401.1            G.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGHI   155
NTDB id 1019 ACIAD RS04205 WP 004922051.1        EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHI   156
NTDB id 1052001 ACE14F RS21570 WP 001055622.1    E.NQRLRGSAFAQRHGISLALRLLPSHCPQLEQLGTPPILPELLKSENGLILVTGATGSGKSTTLAAMVGYLNQHADAHI   152
NTDB id 1307 DR RS10055 WP 010888596.1           D.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLHI   159
NTDB id 1086 NMV RS00245 WP 002218487.1          N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   155
NTDB id 1116 NGFG RS10615 WP 003690200.1         N.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI   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 GC085 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
NTDB id 1040 HON27 RS13360 WP 000355489.1        N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1        N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDHI   155
consensus                                        * **!*!***!** ** ****!**** ********** *** **   *!*****!*!!*!!!!**!*** **!  *  !!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1 LTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHANNANQ 233
NTDB id 1203 PSJM300 01605 AFN76401.1 ISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHANNANQ 235
NTDB id 1019 ACIAD RS04205 WP 004922051.1 ITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHANNANQ 236
NTDB id 1052001 ACE14F RS21570 WP 001055622.1 LTLEDPVEYLYASQRCLIQQREIGLHCMTFASGLRAALREDPDVILLGELRDSETIRLALTAAETGHLVLATLHTRGAAQ 232
NTDB id 1307 DR RS10055 WP 010888596.1 LTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE 239
NTDB id 1086 NMV RS00245 WP 002218487.1 LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK 235
NTDB id 1116 NGFG RS10615 WP 003690200.1 LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHTTGAAK 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
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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 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 1177 A1552VC RS01165 WP 000422572.1 ALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQEVGMQ 313
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NTDB id 1019 ACIAD RS04205 WP 004922051.1 TLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSGELGMQ 316
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NTDB id 1307 DR RS10055 WP 010888596.1 SIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGMV 319
NTDB id 1086 NMV RS00245 WP 002218487.1 TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ 315
NTDB id 1116 NGFG RS10615 WP 003690200.1 TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQASGMQ 315
NTDB id 1185 GTF74 RS11940 WP 000350195.1 TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ 314
NTDB id 1176 A1552VC RS01160 WP 000350195.1 TIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGMQ 314
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NTDB id 1259 GC085 RS10305 WP 010947729.1 TINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQAKGMQ 314
NTDB id 1202 PSJM300 01600 AFN76400.1 TIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGGSLGMQ 314
NTDB id 1194 PAKAF RS01995 WP 003084552.1 TIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGGSLGMQ 314
NTDB id 1020 ACIAD RS04210 WP 011182164.1 TIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGATHGMT 314
NTDB id 1060 ABD1 RS04380 WP 000355489.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
NTDB id 1040 HON27 RS13360 WP 000355489.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1 TIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGANHGMT 314
consensus ***!************** *!***! ****! !*** ***!****!**********!!* ******* *****   !!*

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NTDB id 1177 A1552VC RS01165 WP 000422572.1    TFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKR.GDDY...GSGSLQNVKI.........DME.............  368
NTDB id 1203 PSJM300 01605 AFN76401.1          TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGS.ETDGEHLTSVS.QGLTL.........EMSDDDPGRSFR....  381
NTDB id 1019 ACIAD RS04205 WP 004922051.1      TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSE.EANKPLDNRERMSEMER.........KMTFDGQRRNLK....  383
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NTDB id 1086 NMV RS00245 WP 002218487.1        TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF...............................................  347
NTDB id 1116 NGFG RS10615 WP 003690200.1       TMDQSLQSLVRQGLIAPEAARRRAQNSESMSF...............................................  347
NTDB id 1185 GTF74 RS11940 WP 000350195.1      TMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................  345
NTDB id 1176 A1552VC RS01160 WP 000350195.1    TMEQNAKQLIARGVVDAQEVQSKIELDLKAF................................................  345
NTDB id 1283 ACE17W RS02630 WP 010947729.1     TLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................  344
NTDB id 1259 GCO85 RS10305 WP 010947729.1      TLDQHLTELVNKNIISKHTAHEAALNK.SLF................................................  344
NTDB id 1202 PSJM300 01600 AFN76400.1          TLDSCLKGLLAKGLISRDSAKEKAKQP.ENF................................................  344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      TLDMCLKGLVAKGLISRENAREKAKIP.ENF................................................  344
NTDB id 1020 ACIAD RS04210 WP 011182164.1      TLDQSLKQLLAKGIINLPTARAVAKSP.ESF................................................  344
NTDB id 1060 ABD1 RS04380 WP 000355489.1       TLDQSLKGLVARGVISPQTARTAAKQP.ESFL...............................................  345
NTDB id 1040 HON27 RS13360 WP 000355489.1      TLDQSLKGLVARGVISPQTARTAAKQP.ESFL...............................................  345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      TLDQSLKGLVSRGVISPQTARTAAKQP.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 1052001 ACE14F RS21570 WP 001055622.1  .........................  326
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
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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