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NTDB id 1203 PSJM300 01605 AFN76401.1          ....MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFAISAR   76
NTDB id 1019 ACIAD RS04205 WP 004922051.1      ....MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFAILNR   76
NTDB id 1141299 DQN38 RS05605 WP 120655514.1   ....MNIETLLKTVMHNKASDLHLVGRSEPQIRIDGSLRPLEGKVLDGSDIENLCYTILTDAQKSELEENKDLDFALELP   76
NTDB id 1307 DR RS10055 WP 010888596.1         MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG   80
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 GC085 RS10305 WP 010947729.1      ....MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFSFEIA   76
NTDB id 1194 PAKAF RS01995 WP 003084552.1      ....MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP   76
NTDB id 1202 PSJM300 01600 AFN76400.1          ....MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP   76
NTDB id 1020 ACIAD RS04210 WP 011182164.1      ....MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1060 ABD1 RS04380 WP 000355489.1       ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
NTDB id 1040 HON27 RS13360 WP 000355489.1      ....MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFSFEVP   76
consensus                                          ******!****** *!!********!*****!******** *** **  *********!****** ** *!*****
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NTDB id 1203 PSJM300 01605 AFN76401.1          G.IGRFRVSAFYQR.NLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGH   154
NTDB id 1019 ACIAD RS04205 WP 004922051.1      EKNERFRVSAFQQR.DMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGH   155
NTDB id 1141299 DQN38 RS05605 WP 120655514.1   G.IGRFRGNCYYTMNGSLAAAFRMIPLNIPSLDDLNAPAIFKELVKKEKGLVLVTGGTGAGKSTTLAALLNEINITERKH   155
NTDB id 1307 DR RS10055 WP 010888596.1         D.KARFRVNAFMQR.GNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLH   158
NTDB id 1116 NGFG RS10615 WP 003690200.1       N.VARFRVNAFNTG.RGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   154
NTDB id 1086 NMV RS00245 WP 002218487.1        N.VARFRVNAFNIG.RGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAH   154
NTDB id 1185 GTF74 RS11940 WP 000350195.1      N.VGRFRVNAFHQA.RGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1176 A1552VC RS01160 WP 000350195.1    N.VGRFRVNAFHQA.RGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1283 ACE17W RS02630 WP 010947729.1     N.LARFRVNAFNQS.RGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1259 GC085 RS10305 WP 010947729.1      N.LARFRVNAFNQS.RGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1194 PAKAF RS01995 WP 003084552.1      G.VARFRVNAFNQN.RGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1202 PSJM300 01600 AFN76400.1          G.VARFRVNAFNQN.RGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1020 ACIAD RS04210 WP 011182164.1      N.LARFRVNVFNQN.RGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDH   154
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      N.VARFRVNAFNQN.RGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1060 ABD1 RS04380 WP 000355489.1       N.VARFRVNAFNQN.RGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1040 HON27 RS13360 WP 000355489.1      N.VARFRVNAFNQN.RGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   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 1141299 DQN38 RS05605 WP 120655514.1 IITIEDPIEFVHQNKNSLFSHRNVGTDTKSFARALKYALREDPDIILVGDLRDPETISIAIAAAETGHLVFGTLHTNSAV   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
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NTDB id 1194 PAKAF RS01995 WP 003084552.1    ILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHTTSAA   234
NTDB id 1202 PSJM300 01600 AFN76400.1        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 1203 PSJM300 01605 AFN76401.1        QALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRS.TDLG   313
NTDB id 1019 ACIAD RS04205 WP 004922051.1    QTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGETYKIKELMARS.GELG   314
NTDB id 1141299 DQN38 RS05605 WP 120655514.1 QTINRIVDSFNETEQAQVRNMLSVSLNAIISQTLVPK.ADNGRFAVHEVLINNHAISNLIRENKSHQIYSQIQLNQQNTG   314
NTDB id 1307 DR RS10055 WP 010888596.1       ESIDRIVDVFPEEGQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTG.AREG   317
NTDB id 1116 NGFG RS10615 WP 003690200.1     KTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG.QASG   313
NTDB id 1086 NMV RS00245 WP 002218487.1      KTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG.QASG   313
NTDB id 1185 GTF74 RS11940 WP 000350195.1    KTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTG.AAHG   312
NTDB id 1176 A1552VC RS01160 WP 000350195.1  KTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTG.AAHG   312
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NTDB id 1259 GC085 RS10305 WP 010947729.1    KTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG.QAKG   312
NTDB id 1194 PAKAF RS01995 WP 003084552.1    KTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTG.GSLG   312
NTDB id 1202 PSJM300 01600 AFN76400.1        KTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTG.GSLG   312
NTDB id 1020 ACIAD RS04210 WP 011182164.1    KTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTG.ATHG   312
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANHG   312
NTDB id 1060 ABD1 RS04380 WP 000355489.1     KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANHG   312
NTDB id 1040 HON27 RS13360 WP 000355489.1    KTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG.ANHG   312
consensus                                    ****!****!**********!***!*****!*!***  ***!****!**** ******!!* ******* **** *  !
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NTDB id 1203 PSJM300 01605 AFN76401.1          MQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLT........LEMSDDDPGRSFR...   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1      MQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEME........RKMTFDGQRRNLK...   383
NTDB id 1141299 DQN38 RS05605 WP 120655514.1   MQTQTQAMEKAVQMGFITKENAIRYSTNQQE..LAGKLG........AI...............................   353
NTDB id 1307 DR RS10055 WP 010888596.1         MVTMDAYLAGLFRRHLITYDKGLERAID.PK..EFARLANDASAGLGGA.SMTPAAPPVPAYNSASSSSTGRGGDFGRGA   393
NTDB id 1116 NGFG RS10615 WP 003690200.1       MQTMDQSLQSLVRQGLIAPEAARRRAQNSES..MSF............................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1        MQTMDQSLQSLVRQGLIAPEVARRRAQNSES..MSF............................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1      MQTMEQNAKQLIARGVVDAQEVQSKIELDLK..AF.............................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1    MQTMEQNAKQLIARGVVDAQEVQSKIELDLK..AF.............................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1     MQTLDQHLTELVNKNIISKHTAHEAALN.KS..LF.............................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1      MQTLDQHLTELVNKNIISKHTAHEAALN.KS..LF.............................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      MQTLDMCLKGLVAKGLISRENAREKAKI.PE..NF.............................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1          MQTLDSCLKGLLAKGLISRDSAKEKAKQ.PE..NF.............................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1      MTTLDQSLKQLLAKGIINLPTARAVAKS.PE..SF.............................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1      MTTLDQSLKGLVSRGVISPQTARTAAKQ.PE..SFL............................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1       MTTLDQSLKGLVARGVISPQTARTAAKQ.PE..SFL............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1      MTTLDQSLKGLVARGVISPQTARTAAKQ.PE..SFL............................................   345
consensus                                      !*!*** *  ** *****   *   * *      *

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NTDB id 1203 PSJM300 01605 AFN76401.1          ........................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1      ........................   383
NTDB id 1141299 DQN38 RS05605 WP 120655514.1   ........................   353
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 GC085 RS10305 WP 010947729.1      ........................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1      ........................   344
NTDB id 1202 PSJM300 01600 AFN76400.1          ........................   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