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NTDB id 1177 A1552VC RS01165 WP 000422572.1  .........MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGE.ALSVADVTALLHAMMDDARQAEFKQTREAN  69
NTDB id 189925 A6L21 RS03400 WP 002221204.1  MFTDENMTAKEELFAWLRHMNQNKGSDLFVTTHFPPAMKLDGKITRITDEPLTAEKCMEIAFSIMSAKQAEEFSSTNECN  80
NTDB id 1203 PSJM300 01605 AFN76401.1        .........MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECN  70
NTDB id 1019 ACIAD RS04205 WP 004922051.1    .........MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECN  70
NTDB id 1307 DR RS10055 WP 010888596.1       ......MTSGIDITTDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELD  74
NTDB id 1086 NMV RS00245 WP 002218487.1      .........MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVD  70
NTDB id 1283 ACE17W RS02630 WP 010947729.1   .........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD  70
NTDB id 1259 GCO85 RS10305 WP 010947729.1    .........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD  70
NTDB id 1194 PAKAF RS01995 WP 003084552.1    .........MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETD  70
NTDB id 1202 PSJM300 01600 AFN76400.1        .........MDITELLAFSAKQGASDLHLSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETD  70
NTDB id 1020 ACIAD RS04210 WP 011182164.1    .........MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETD  70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    .........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD  70
NTDB id 1060 ABD1 RS04380 WP 000355489.1     .........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD  70
NTDB id 1040 HON27 RS13360 WP 000355489.1     .........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETD  70
consensus                                     *******!******* *!!*********************!********* *** **  ********************  !**
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  FAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQ 147
NTDB id 189925 A6L21 RS03400 WP 002221204.1  FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPVLKDVALKKRGLVIFVGGTGSGKSTSLASLIDYRNE 159
NTDB id 1203 PSJM300 01605 AFN76401.1        FAISARG.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNK 149
NTDB id 1019 ACIAD RS04205 WP 004922051.1    FAILNREKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ 150
NTDB id 1307 DR RS10055 WP 010888596.1       FSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT 153
NTDB id 1086 NMV RS00245 WP 002218487.1      FSFELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINE 149
NTDB id 1283 ACE17W RS02630 WP 010947729.1   FSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS 149
NTDB id 1259 GCO85 RS10305 WP 010947729.1    FSFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS 149
NTDB id 1194 PAKAF RS01995 WP 003084552.1    FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNN 149
NTDB id 1202 PSJM300 01600 AFN76400.1        FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNN 149
NTDB id 1020 ACIAD RS04210 WP 011182164.1    FSFEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINN 149
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE 149
NTDB id 1060 ABD1 RS04380 WP 000355489.1     FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE 149
NTDB id 1040 HON27 RS13360 WP 000355489.1     FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINE 149
consensus                                     !*****  **!!!!*****  *****!*!*!********************  ******  *!!******!*!!*!!!!**!******!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1  HRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLH 227
NTDB id 189925 A6L21 RS03400 WP 002221204.1  NSFGHITTEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVILIGEIRDRETMDYAIAFAETGHLCMATLH 239
NTDB id 1203 PSJM300 01605 AFN76401.1        NSSGHISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLH 229
NTDB id 1019 ACIAD RS04205 WP 004922051.1    HSKGHITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLH 230
NTDB id 1307 DR RS10055 WP 010888596.1       TKKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLH 233
NTDB id 1086 NMV RS00245 WP 002218487.1      TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLH 229
NTDB id 1283 ACE17W RS02630 WP 010947729.1   SRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLH 229
NTDB id 1259 GCO85 RS10305 WP 010947729.1    SRYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLH 229
NTDB id 1194 PAKAF RS01995 WP 003084552.1    TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
NTDB id 1202 PSJM300 01600 AFN76400.1        TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
NTDB id 1020 ACIAD RS04210 WP 011182164.1    HRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1    NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
NTDB id 1060 ABD1 RS04380 WP 000355489.1     NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
NTDB id 1040 HON27 RS13360 WP 000355489.1     NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLH 229
consensus                                     **  !!***!!!!!!*! ********!!!****!  *   !!***!!**!!*!!*!!*!**!****!***!!!!!!***!!!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ANNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARS   307
NTDB id 189925 A6L21 RS03400 WP 002221204.1   ANSTNQALDRIINFFPEERREQLLTDLSLNLQAFISQRLVPRDGGKGRVAAVEVLLNSPLISELIHNGNIHEIKEVMKKS   319
NTDB id 1203 PSJM300 01605 AFN76401.1         ANNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRS   309
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ANNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARS   310
NTDB id 1307 DR RS10055 WP 010888596.1        TNSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTG   313
NTDB id 1086 NMV RS00245 WP 002218487.1       TTGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTG   309
NTDB id 1283 ACE17W RS02630 WP 010947729.1    TNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG   308
NTDB id 1259 GCO85 RS10305 WP 010947729.1     TNSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTG   308
NTDB id 1194 PAKAF RS01995 WP 003084552.1     TTSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTG   308
NTDB id 1202 PSJM300 01600 AFN76400.1         TTSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTG   308
NTDB id 1020 ACIAD RS04210 WP 011182164.1     TTSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTG   308
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
NTDB id 1040 HON27 RS13360 WP 000355489.1     TTSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTG   308
consensus                                     * ** ****!*************** *!***!*****!*!***  ***!*** !**************!** ******* ****
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   QEVGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDYGSG.....S...LQNVKIDME..........   368
NTDB id 189925 A6L21 RS03400 WP 002221204.1   TTLGMQTFDQHLYQLYEKGDISLQDALKNADSAHDLRLAVQLRSRRAQSSG.....PDLEL.......L..........   376
NTDB id 1203 PSJM300 01605 AFN76401.1         TDLGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHL.....TSVS.QGLTLEMSDDDPGRSFR..   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     GELGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLD.....NRERMSEMERKMTFDGQRRNLK..   383
NTDB id 1307 DR RS10055 WP 010888596.1        ARETMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAGLGGASMTPAAPPVPAYNS.ASSSSTGRGGDFGRG   392
NTDB id 1086 NMV RS00245 WP 002218487.1       QASGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF..........................................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1    QAKGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.............................................   344
NTDB id 1259 GCO85 RS10305 WP 010947729.1     QAKGMQTLDQHLTELVNKNIISKHTAHEAALNKSLF.............................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1     GSLGMQTLDMCLKGLVAKGLISRENAREKAKIPENF..............................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1         GSLGMQTLDSCLKGLLAKGLISRDSAKEKAKQPENF..............................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1     ATHGMTTLDQSLKQLLAKGIINLPTARAVAKSPESF..............................................   344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ANHGMTTLDQSLKGLVSRGVISPQTARTAAKQPESFL.............................................   345
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ANHGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL.............................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1     ANHGMTTLDQSLKGLVARGVISPQTARTAAKQPESFL.............................................   345
consensus                                     *  !!*!*!** !  !* ***!*   *   !  *  *
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..........................   368
NTDB id 189925 A6L21 RS03400 WP 002221204.1   ..........................   376
NTDB id 1203 PSJM300 01605 AFN76401.1         ..........................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ..........................   383
NTDB id 1307 DR RS10055 WP 010888596.1        AAAPATPAAPAAGRSEPGRAGGFGRR   418
NTDB id 1086 NMV RS00245 WP 002218487.1       ..........................   347
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ..........................   344
NTDB id 1259 GCO85 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 $\geq$ 50% conserved