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NTDB id 1307 DR RS10055 WP 010888596.1        MTSGIDITDDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFSFALG   80
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 GCO85 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
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
NTDB id 419604 GT972 RS07735 WP 162078085.1   ...MFKLLPYLKLCVEKKGSDLFFTANALPQLKIEGELVPIGKTALTREFITEVVESMLSAQQQQQLAEQLELDLATEAG   77
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
consensus                                          *** **! ****  *!!*******************!********* *** **  ********************* *! ******
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NTDB id 1307 DR RS10055 WP 010888596.1        .DKARFRVNAFMQRGNVGGVMRLIPTTVRTIAEM.GLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTTKKLH   158
NTDB id 1185 GTF74 RS11940 WP 000350195.1     .NVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQL.DAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1176 A1552VC RS01160 WP 000350195.1   .NVGRFRVNAFHQARGCSAVFRTIPTVIPTLEQL.DAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHHNKH   154
NTDB id 1283 ACE17W RS02630 WP 010947729.1    .NLARFRVNAFNQSRGAAAVFRTIPSEILSMEDL.GLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1259 GCO85 RS10305 WP 010947729.1     .NLARFRVNAFNQSRGAAAVFRTIPSEILSMEDL.GLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEH   154
NTDB id 1202 PSJM300 01600 AFN76400.1         .GVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDL.GMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1194 PAKAF RS01995 WP 003084552.1     .GVARFRVNAFNQNRGAGAVFRTIPSKVLTMEEL.GMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNTKYHH   154
NTDB id 1020 ACIAD RS04210 WP 011182164.1     .NLARFRVNVFNQNRGAGAVFRTIPSQVLTLEEL.GLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNHRYDH   154
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDL.GLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1060 ABD1 RS04380 WP 000355489.1      .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDL.GLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 1040 HON27 RS13360 WP 000355489.1     .NVARFRVNAFNQNRGAGAVFRTIPSKVLTMEDL.GLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINENRYDH   154
NTDB id 419604 GT972 RS07735 WP 162078085.1   .GLGRFRVNIFNQRGSLGMVLRHISAQVPTLDSLGGMPPVLKDLVLQKRGLILMVGATGSGKSTTLAAMLRHRNEVSAGH   156
NTDB id 1177 A1552VC RS01165 WP 000422572.1   ..SGRFRVSAFFQRELPGAVIRRIETRIPTFEEL.KLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRTGH   152
NTDB id 1203 PSJM300 01605 AFN76401.1         G.IGRFRVSAFYQRNLAGMVLRRIETNIPTIEDL.KLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKNSSGH   154
NTDB id 1019 ACIAD RS04205 WP 004922051.1     EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDL.HLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGH   155
consensus                                       **!!!!**!*! *****!*!*!** * ***** *** *****     *!******!*!!*!!!!**!******!  *   !
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NTDB id 1307 DR RS10055 WP 010888596.1       ILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAP   238
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
NTDB id 419604 GT972 RS07735 WP 162078085.1  ILTIEDPIEYLHPNLRSIVNQREVGQDTHSYEAALKSALREAPDVILVGETRTRETMDACIQLANTGHLALSTLHANNAA   236
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
consensus                                    !***!!!!!**!  ******!!!!**!!  **  !!***!!**!!*!!*!!*!* !*********!*!!!!***!!!* *!*
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NTDB id 1307 DR RS10055 WP 010888596.1       ESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM   318
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
NTDB id 419604 GT972 RS07735 WP 162078085.1  QALQRIINLYPQMLRDQLYMDLSMTLRAIISQRLVKRPDGR.RVAAMEVMVNTPYLQELILHKRVDEIPAAMVQSSDKGM   315
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
consensus                                    ****!*****************  *!***!  ****!  !***   ***!***  !*************!** *******  *****   !!
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NTDB id 1307 DR RS10055 WP 010888596.1        VTMDAYLAGLFRRHLITYDKGLERAIDP.KEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA   394
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
NTDB id 419604 GT972 RS07735 WP 162078085.1   LTFDNALFALYRSGTISLDEALINADSRSNLEAKINFGG...............................................   354
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
consensus                                     *!***  *   !*  *****    *    *       *
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NTDB id 1307 DR RS10055 WP 010888596.1        APATPAAPAAGRSEPGRAGGFGRR   418
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
NTDB id 419604 GT972 RS07735 WP 162078085.1   ........................   354
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
consensus
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X non conserved
X similar
X ≥ 50% conserved