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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   ........MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL.SVADVTALLHAMMDDARQAEFKQTREANFA   71
NTDB id 1203 PSJM300 01605 AFN76401.1         ........MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPMSPEMTRETVHGVMNEQQRREFTENHECNFA   72
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ........MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIETHECNFA   72
NTDB id 155050 CRECT RS02300 WP 004320052.1   MEENEKFNTSLEVLLKTVVHNKASDLHIVSRSEPQIRIDGTLRPLELGVLSGHDIQDICYALITDVQKSELEENRELDFA   80
NTDB id 1307 DR RS10055 WP 010888596.1        ....MTSGIDITDILRLAADKGASDIILAAGLPPQFKLSGDYDAQGFEPLSASDTRKLMYSMMNERQQRIFEEKRELDFS   76
NTDB id 1116 NGFG RS10615 WP 003690200.1      ........MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFS   72
NTDB id 1086 NMV RS00245 WP 002218487.1       ........MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPEMSAEEVGNMVTSVMNDHQRKIYQQNLEVDFS   72
NTDB id 1185 GTF74 RS11940 WP 000350195.1     ........MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFS   72
NTDB id 1176 A1552VC RS01160 WP 000350195.1   ........MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVPAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDFS   72
NTDB id 1283 ACE17W RS02630 WP 010947729.1    ........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFS   72
NTDB id 1259 GCO85 RS10305 WP 010947729.1     ........MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETDFS   72
NTDB id 1202 PSJM300 01600 AFN76400.1         ........MDITELLAFSAKQGASDLHLSSGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFS   72
NTDB id 1194 PAKAF RS01995 WP 003084552.1     ........MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETDFS   72
NTDB id 1020 ACIAD RS04210 WP 011182164.1     ........MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1060 ABD1 RS04380 WP 000355489.1      ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1040 HON27 RS13360 WP 000355489.1     ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     ........MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLVYDIMNDKQRRDYEEKLETDFS   72
consensus                                              *** **!****** *!!*****************!******** * * **  ******************* *! *!*
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1177 A1552VC RS01165 WP 000422572.1   VVRD..SGRFRVSAFFQ.RELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQH   148
NTDB id 1203 PSJM300 01605 AFN76401.1         ISARG.IGRFRVSAFYQ.RNLAGMVLRRIETNIPTIEDLKLPDVLKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKN   150
NTDB id 1019 ACIAD RS04205 WP 004922051.1     ILNREKNERFRVSAFQQ.RDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQH   151
NTDB id 155050 CRECT RS02300 WP 004320052.1   IELPG.VGRFRGNYYYTMNGDLAAAFRIIPTEIPSLDDLKAPNIFKEVVKREKGMILVTGPTGSGKSTTLAAMLNEINLN   159
NTDB id 1307 DR RS10055 WP 010888596.1        FALGD.KARFRVNAFMQ.RGNVGGVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINTT   154
NTDB id 1116 NGFG RS10615 WP 003690200.1      FELPN.VARFRVNAFNT.GRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINET   150
NTDB id 1086 NMV RS00245 WP 002218487.1       FELPN.VARFRVNAFNI.GRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINET   150
NTDB id 1185 GTF74 RS11940 WP 000350195.1     FELPN.VGRFRVNAFHQ.ARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAH   150
NTDB id 1176 A1552VC RS01160 WP 000350195.1   FELPN.VGRFRVNAFHQ.ARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAH   150
NTDB id 1283 ACE17W RS02630 WP 010947729.1    FEIAN.LARFRVNAFNQ.SRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSS   150
NTDB id 1259 GCO85 RS10305 WP 010947729.1     FEIAN.LARFRVNAFNQ.SRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSS   150
NTDB id 1202 PSJM300 01600 AFN76400.1         FEVPG.VARFRVNAFNQ.NRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNT   150
NTDB id 1194 PAKAF RS01995 WP 003084552.1     FEVPG.VARFRVNAFNQ.NRGAGAVFRTIPSKVLTMEELGMGEVFKRVSDVPRGLVLVTGPTGSGKSTTLAAMLDYLNNT   150
NTDB id 1020 ACIAD RS04210 WP 011182164.1     FEVPN.LARFRVNVFNQ.NRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMLDYINNH   150
NTDB id 1060 ABD1 RS04380 WP 000355489.1      FEVPN.VARFRVNAFNQ.NRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN   150
NTDB id 1040 HON27 RS13360 WP 000355489.1     FEVPN.VARFRVNAFNQ.NRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN   150
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     FEVPN.VARFRVNAFNQ.NRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMLDYINEN   150
consensus                                     ***** **!!!****** ** ****!*!** ******* ** *** **   *!*****!*!!*!!!!**!*** **!
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NTDB id 1177 A1552VC RS01165 WP 000422572.1   RTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLHA   228
NTDB id 1203 PSJM300 01605 AFN76401.1         SSGHIISIEDPIEFIHQHQNCIVTQREVGIDTDSFEVALKNTLRQAPDVILIGEVRTRETMDHAVAFAETGHLCLATLHA   230
NTDB id 1019 ACIAD RS04205 WP 004922051.1     SKGHIITIEDPIEFIHEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVILIGEIRSREVMDYALAFAETGHLVFATLHA   231
NTDB id 155050 CRECT RS02300 WP 004320052.1   ERKHVITVEDPVEFVHTNKKALFSHRNVGTDTQSYARALKYALREDPDIILVGELRDRETISTAITAAETGHLVFGTLHT   239
NTDB id 1307 DR RS10055 WP 010888596.1        KKLHILTIEDPIEFMHPNKASIINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHT   234
NTDB id 1116 NGFG RS10615 WP 003690200.1      QPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHT   230
NTDB id 1086 NMV RS00245 WP 002218487.1       QPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAAETGHLVFGTLHT   230
NTDB id 1185 GTF74 RS11940 WP 000350195.1     HNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHT   230
NTDB id 1176 A1552VC RS01160 WP 000350195.1   HNKHILTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAAETGHLVFGTLHT   230
NTDB id 1283 ACE17W RS02630 WP 010947729.1    RYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHT   230
NTDB id 1259 GCO85 RS10305 WP 010947729.1     RYEHILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHT   230
NTDB id 1202 PSJM300 01600 AFN76400.1         KYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
NTDB id 1194 PAKAF RS01995 WP 003084552.1     KYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
NTDB id 1020 ACIAD RS04210 WP 011182164.1     RYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
NTDB id 1060 ABD1 RS04380 WP 000355489.1      RYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
NTDB id 1040 HON27 RS13360 WP 000355489.1     RYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     RYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEMRDLETIRLALTAAETGHLVFGTLHT   230
consensus                                     *  !****!!!*!!*!  *******!*****! **  !!***!!**!!*!!*!!*!* !** *!***!!!!!!***!!!*

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NTDB id 1177 A1552VC RS01165 WP 000422572.1   NNANQALERILHLVPKEQREQFLLDLSLNLKGVIAQQLLRDKNGKGRHGVFEVLLNSPRIADLIRRGELHELKATMARSQ   308
NTDB id 1203 PSJM300 01605 AFN76401.1         NNANQALDRIINFFPADRQNQVWMDLSLNLKAIVAQQLVPTPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRST   310
NTDB id 1019 ACIAD RS04205 WP 004922051.1     NNANQTLERIIHFFDADRHQQIFMDLSLNLKAVISQQLIPTHDGQSRRAAVEVLINTPLLSDYIRQGEIYKIKELMARSG   311
NTDB id 155050 CRECT RS02300 WP 004320052.1   NSAIQTINRIIDSFEGGEQLQVRNMLSVSLTAVISQALLPK.IGSGRLAVHEILINNNAIANLIRENKVHQIYSQMQLNQ   318
NTDB id 1307 DR RS10055 WP 010888596.1        NSAPESIDRIVDVFPEEQQEQIRVQLANNLVAVMTQQLLPRADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGA   314
NTDB id 1116 NGFG RS10615 WP 003690200.1      TGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQ   310
NTDB id 1086 NMV RS00245 WP 002218487.1       TGAAKTVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQ   310
NTDB id 1185 GTF74 RS11940 WP 000350195.1     SSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGA   309
NTDB id 1176 A1552VC RS01160 WP 000350195.1   SSAAKTIDRIIDVFPGSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGA   309
NTDB id 1283 ACE17W RS02630 WP 010947729.1    NSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQ   309
NTDB id 1259 GCO85 RS10305 WP 010947729.1     NSATKTINRIIDVFPAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSSIQTGQ   309
NTDB id 1202 PSJM300 01600 AFN76400.1         TSAAKTIDRVVDVFPAEEKSMVRSMLSESLQAVISQTLLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSSIQTGG   309
NTDB id 1194 PAKAF RS01995 WP 003084552.1     TSAAKTIDRVVDVFPAEEKAMVRSMLSESLQSVISQTLIKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSAIQTGG   309
NTDB id 1020 ACIAD RS04210 WP 011182164.1     TSAAKTIDRIIDVFPAEEKDMVRTMLSESLQAVISQTLLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSSIQTGA   309
NTDB id 1060 ABD1 RS04380 WP 000355489.1      TSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGA   309
NTDB id 1040 HON27 RS13360 WP 000355489.1     TSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGA   309
NTDB id 1081 FDQ49 RS05335 WP 006581387.1     TSAAKTIDRVIDVFPAEEKDMVRAMLSESLQAVISQTLLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSAIQTGA   309
consensus                                     **!*****!*************** *!***! ****! !***  ***!****!**** ******!!* ******* *****
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logo
                                                  .EVGMQTFDQALYQLVVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI........DME........   368
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1             .DLGMQTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL........EMSDDDPGRSF   380
NTDB id 1019 ACIAD RS04205 WP 004922051.1         .ELGMQTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER........KMTFDGQRRNL   382
NTDB id 155050 CRECT RS02300 WP 004320052.1      QSTGMITQTQSLMKAIRANQITKEMAMRYSTNQQEL........GG...LLG.I...........................   360
NTDB id 1307 DR RS10055 WP 010888596.1            .REGMVTMDAYLAGLFRRHLITYDKGLERAIDPKEFARLANDASAG...LGG.ASMTPAAPPVPAYNSASSSSTGRGGDF   389
NTDB id 1116 NGFG RS10615 WP 003690200.1          .ASGMQTMDQSLQSLVRQGLIAPEAARRRAQNSESMSF.........................................   347
NTDB id 1086 NMV RS00245 WP 002218487.1           .ASGMQTMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.........................................   347
NTDB id 1185 GTF74 RS11940 WP 000350195.1         .AHGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF..........................................   345
NTDB id 1176 A1552VC RS01160 WP 000350195.1       .AHGMQTMEQNAKQLIARGVVDAQEVQSKIELDLKAF..........................................   345
NTDB id 1283 ACE17W RS02630 WP 010947729.1        .AKGMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF..........................................   344
NTDB id 1259 GC085 RS10305 WP 010947729.1         .AKGMQTLDQHLTELVNKNIISKHTAHEAALNK.SLF..........................................   344
NTDB id 1202 PSJM300 01600 AFN76400.1             .SLGMQTLDSCLKGLLAKGLISRDSAKEKAKQP.ENF..........................................   344
NTDB id 1194 PAKAF RS01995 WP 003084552.1         .SLGMQTLDMCLKGLVAKGLISRENAREKAKIP.ENF..........................................   344
NTDB id 1020 ACIAD RS04210 WP 011182164.1         .THGMTTLDQSLKQLLAKGIINLPTARAVAKSP.ESF..........................................   344
NTDB id 1060 ABD1 RS04380 WP 000355489.1          .NHGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL.........................................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1         .NHGMTTLDQSLKGLVARGVISPQTARTAAKQP.ESFL.........................................   345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1         .NHGMTTLDQSLKGLVSRGVISPQTARTAAKQP.ESFL.........................................   345
consensus                                            !!*!*** *  ** *****   *   *    * *
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logo
NTDB id 1177 A1552VC RS01165 WP 000422572.1       ..............................   368
NTDB id 1203 PSJM300 01605 AFN76401.1             R.............................   381
NTDB id 1019 ACIAD RS04205 WP 004922051.1         K.............................   383
NTDB id 155050 CRECT RS02300 WP 004320052.1       ..............................   360
NTDB id 1307 DR RS10055 WP 010888596.1            GRGAAAPATPAAPAAGRSEPGRAGGFGRR   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 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 1060 ABD1 RS04380 WP 000355489.1          ..............................   345
NTDB id 1040 HON27 RS13360 WP 000355489.1         ..............................   345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1         ..............................   345
consensus
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X non conserved
X similar
X ≥ 50% conserved