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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   .........................MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLS   54
NTDB id 1401 DSB67 RS12665 WP 010643259.1     .........................MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLS   54
NTDB id 1293 VP RS12240 WP 005479695.1        .........................MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLS   54
NTDB id 1110 NGFG RS09235 WP 003689817.1      .........................MSVGLLRILVQNQVVTVEQAEHYYN.ESQAGKEVLPMLFSDGVISPKSLAALIA   53
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ...................MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETIS   62
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ...................MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIS   62
NTDB id 237148 UN84 RS06970 WP 046078553.1   MNDYRPPATEHQTSSQAPPSGAGRSHGMRGLAHRLVAEGLLAEAAAQRAEQEARDAETSLLEHVITTGLVQARSATLTAA   80
NTDB id 1251 GC085 RS07725 WP 011946523.1    ...................MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAA   62
consensus                                                          ***  *!*   ***  *    *   *    ***  **    **   *** **
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   HIFGLPETDLSRYDYANLCQQL.GLRELITRYDALPLAKQGNLLLAVSDPTLLQAEEEFRFATGLQVELALADHRALQA   133
NTDB id 1401 DSB67 RS12665 WP 010643259.1     SVFGLSCTSLNQYEYASLCQTL.GLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTA   133
NTDB id 1293 VP RS12240 WP 005479695.1        SIFGLSQPELSQYEYASLCQQL.GLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATGLQVELVLADFRELST   133
NTDB id 1110 NGFG RS09235 WP 003689817.1      RVFSYSILDLRHYPRHRVLMGV.LTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAG   132
NTDB id 1058 ABD1 RS01615 WP 001274986.1      AEFAEPYFDLDVYDTSQIPKDL.VDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEK   141
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LEFGEPLLDLGVFDPALFLKDK.IDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLER   141
NTDB id 237148 UN84 RS06970 WP 046078553.1   WEYGLPIIDLDALRLESLPDAADYPDRLLRKLGVLPLHRRGHRLTVAVPYPSTLAQLDELQFATGLTLEGILAPVDQLGP   160
NTDB id 1251 GC085 RS07725 WP 011946523.1    QNFGVPMLDINCIDVGTIPVNL.VNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSA   141
consensus                                      ****  **  ** * *   *     ** *   *!* ***  * *!* *!*** **** ****** ** ** *   !
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   AIRRLYGRSIQGAANQGKEISQDELAN....LVKVSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQ   209
NTDB id 1401 DSB67 RS12665 WP 010643259.1     AIRRLYGRSLGQEKSGLKEINQDELAG....LVDIGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENM   209
NTDB id 1293 VP RS12240 WP 005479695.1        AIRRLYGRSLSHEKSGLKEINQEELAS....LVDVGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKM   209
NTDB id 1110 NGFG RS09235 WP 003689817.1      LLDWVGSRSTSL.LQELGEG............QEEEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHN   199
NTDB id 1058 ABD1 RS01615 WP 001274986.1      VLGQHFAEESSFDFN........DEEFDLDVNLDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKS   213
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LLSEHFVEETHFNFD........TEELDLDVEVDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKS   213
NTDB id 237148 UN84 RS06970 WP 046078553.1   VLEAYLARSESSMLDELSNVDDAVGELQFDEGVVD.ASDEQQAAATAGDDAPIVKFVNKIILDAIRRGASDIHFEPYETS   239
NTDB id 1251 GC085 RS07725 WP 011946523.1    LIDNLLTAKESQGLSEYVEDSGDLEGLEI..SADD.EDQDIDTATSVTDDAPIVKFVNKIILDAIRQGASDIHFEPYERE   218
consensus                                     **  ***** *       *               **    *    *    ***!* ******!*!!*! *!!!*!!!*!!
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   YRIRLRCDGILVETQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLD   288
NTDB id 1401 DSB67 RS12665 WP 010643259.1     YRVRLRCDGILIEIQQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLD   288
NTDB id 1293 VP RS12240 WP 005479695.1        YRVRLRCDGILIETQQPPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLD   288
NTDB id 1110 NGFG RS09235 WP 003689817.1      ARLRFRVDGQLREVVQPPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILN   279
NTDB id 1058 ABD1 RS01615 WP 001274986.1      YRVRYRVDGVLRQIANPPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILD   292
NTDB id 1018 ACIAD RS01685 WP 004920473.1     YRVRYRVDGVLRLIATPPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILD   292
NTDB id 237148 UN84 RS06970 WP 046078553.1   YRVRFRIDGILHDVAHPPFAMRSRIAARLKVMARLDISERRLPQDGAIKLKVSS.SRSIDFRVNSLPTVYGEKLVLRILD   318
NTDB id 1251 GC085 RS07725 WP 011946523.1    YRIRYRQDGILHEVATPPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLD   297
consensus                                     *!*!*! !!*! ** *!*  *  ****!*!*****!!*!*!*!!!!********  ***!*!!**!!**!!!*!*!*!*
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   SSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQ   368
NTDB id 1401 DSB67 RS12665 WP 010643259.1     SSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQ   368
NTDB id 1293 VP RS12240 WP 005479695.1        SSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQ   368
NTDB id 1110 NGFG RS09235 WP 003689817.1      SDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVN   359
NTDB id 1058 ABD1 RS01615 WP 001274986.1      PSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVN   372
NTDB id 1018 ACIAD RS01685 WP 004920473.1     PASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVN   372
NTDB id 237148 UN84 RS06970 WP 046078553.1   PGSAQMGIEQLGFTPEQRAMYEDVLDHPQGMILVTGPTGSGKTVTLYSGINILNEIERNICTAEDPVEIKVPGVNQVNVL   398
NTDB id 1251 GC085 RS07725 WP 011946523.1    SGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNIN   377
consensus                                    * *! * !* !!* * !* ****** *!*!!*!*!!!!!!!!!!*!!****!!!*   *!!*!!!!!*!!**  !*!!!***

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   PKIGFGFAEALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLII   448
NTDB id 1401 DSB67 RS12665 WP 010643259.1     PKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLII   448
NTDB id 1293 VP RS12240 WP 005479695.1        PKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLII   448
NTDB id 1110 NGFG RS09235 WP 003689817.1      DKQGLTFAAALKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIM   439
NTDB id 1058 ABD1 RS01615 WP 001274986.1      PKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVI   452
NTDB id 1018 ACIAD RS01685 WP 004920473.1     PKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVI   452
NTDB id 237148 UN84 RS06970 WP 046078553.1   PKIGLDFASALRAFLRQDPDVVMVGEIRDLETAEIAVKASQTGHLVLSTVHTNSAAETLTRLANMGVAPFNIASSVSLII   478
NTDB id 1251 GC085 RS07725 WP 011946523.1    PKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLII   457
consensus                                    *!*!* !* !!**!!!!!!!**!!!!!!!!*!!*!!*!!*!!!!!*!*!!*!!!*!**!* !* !!!* *!!*!*!**!**

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   AQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEIL....YEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRAS   522
NTDB id 1401 DSB67 RS12665 WP 010643259.1     AQRLARKLCPYCRQPQ.EPNSQLQH.IGIANTEQI....FQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGAS   521
NTDB id 1293 VP RS12240 WP 005479695.1        AQRLARKLCPYCKQPQ.EHTVQLQH.LGIQTTDNI....FRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGAS   521
NTDB id 1110 NGFG RS09235 WP 003689817.1      AQRLLRRLCSSCKQEVERPSASALKEVGFTDEDLAK.DWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGT   518
NTDB id 1058 ABD1 RS01615 WP 001274986.1      AQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGN   530
NTDB id 1018 ACIAD RS01685 WP 004920473.1     AQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGN   530
NTDB id 237148 UN84 RS06970 WP 046078553.1   AQRLARRLCPDCKQPA.DIPHEALLAQGFSEEEVQS..ATIYEPVGCQHCT.QGFKGRVGIYEVVPISEAMSQLIMTHGN   554
NTDB id 1251 GC085 RS07725 WP 011946523.1    AQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLVN..LKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGN   534
consensus                                    !!!!*!*!!  !* *  *     *  ***   **      ** **!! *!*  !**!!*!**!!* ** *** ***  *

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1   IHQIERLAKANGMQTLQESGLEKLREGITSFAELQRVLYF   562
NTDB id 1401 DSB67 RS12665 WP 010643259.1     VHELEKLAIANGMQTLQMSGIEKLKQGITSFRELQRVLYF   561
NTDB id 1293 VP RS12240 WP 005479695.1        VHELEKLAIANGMSTLQMSGIEKLKQGITSFSELQRVLYF   561
NTDB id 1110 NGFG RS09235 WP 003689817.1      EVGILDVAYKEGMVDLRRAGILKIMQGITSLEEVTANTND   558
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ALEIAAASEKLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ALEIAATAETLGFNNLRRSGLKKVMQGVTSLQEINRVTSE   570
NTDB id 237148 UN84 RS06970 WP 046078553.1   AMDFDTQAREEGHPDLRRSGLFKVMQGMTSLAEVNRVTKD   594
NTDB id 1251 GC085 RS07725 WP 011946523.1    SLDILKLAQSEGMLTIFQSGIEKVKEGITTIEEVNRVTVD   574
consensus                                     ***  **   !*  *  *!* !* *!*!** !***** *
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X non conserved
X similar
X $\geq$ 50% conserved