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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDYANL   72
NTDB id 1293 VP RS12240 WP 005479695.1         ........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPFLSQYEYASL   72
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ........MLINLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEYASL   72
NTDB id 1110 NGFG RS09235 WP 003689817.1       ........MSVGLLRILVQNQVVTVEQAEHYYNESQA.GKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPRHRV   71
NTDB id 1251 GC085 RS07725 WP 011946523.1      MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDVGTI   80
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1 .......MGITGIARRLVQDGSLEEGAARSAMDQAAAAKIPLPQWFAEKKLVSAAQLAAANAVEFGMPLMDVSVFDASQN   73
NTDB id 1058 ABD1 RS01615 WP 001274986.1       MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDTSQI   80
NTDB id 1018 ACIAD RS01685 WP 004920473.1      MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDPALF   80
consensus                                                 ***  *!**  ***  *    **   *    *   **    **   *** **  !***  **  ** * *

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1    CQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATGLQVELALADHRALQAAIRRLYGRSIQGAANQGKE  152
NTDB id 1293 VP RS12240 WP 005479695.1         CQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHEKSGLKE  152
NTDB id 1401 DSB67 RS12665 WP 010643259.1      CQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAAIRRLYGRSLGQEKSGLKE  152
NTDB id 1110 NGFG RS09235 WP 003689817.1       LMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSTSLLQELGEG  151
NTDB id 1251 GC085 RS07725 WP 011946523.1      PVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE  160
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1 AVKLVSEELLQKHQVLPLFKRGNRLFVGVSNPTQTRALDDIKFHTNLVVEPILVDEDQIRRTLEQWQASNAALGSSMGDD  153
NTDB id 1058 ABD1 RS01615 WP 001274986.1       PKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDFN....  156
NTDB id 1018 ACIAD RS01685 WP 004920473.1      LKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFNFD....  156
consensus                                         **  *** **  *!* ***  *******!*** **** ** *** ** ****   *   *  ***          *

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ISQDELANLVKVSDD....ELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPAS  228
NTDB id 1293 VP RS12240 WP 005479695.1         INQEELASLVDVGAD....EIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQPPN  228
NTDB id 1401 DSB67 RS12665 WP 010643259.1      INQDELAGLVDIGED....EIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQPPS  228
NTDB id 1110 NGFG RS09235 WP 003689817.1       Q.E...........EEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQPPI  218
NTDB id 1251 GC085 RS07725 WP 011946523.1      DSGDLEGLEISADDED...QDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPPA  237
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1 D.EGMGDLDVSAGDEDMGAGGDSGVDAKGDDTPVVKFVNKVLVDAIRRGASDIHFEPYEDDYRVRLRIDGLLKNVAKAPV  232
NTDB id 1058 ABD1 RS01615 WP 001274986.1      D.E...EFDLDVNLDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIANPPL  232
NTDB id 1018 ACIAD RS01685 WP 004920473.1      T.E...ELDLDVEVDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIATPPL  232
consensus                                         * *  *       *  **   ** !* ******!*!!*! *!!!*!!!*!!  *!*! ! !!*! ** ***

logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1    HLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQ  307
NTDB id 1293 VP RS12240 WP 005479695.1         HLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQ  307
NTDB id 1401 DSB67 RS12665 WP 010643259.1      HLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQ  307
NTDB id 1110 NGFG RS09235 WP 003689817.1       AVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKK  298
NTDB id 1251 GC085 RS07725 WP 011946523.1      SLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRT  316
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1 KLNQRIAARLKVMSQLDIAEKRVPQDGRIKLNLSK.TKQIDFRVSTLPTLFGEKVVLRILDASAAKLGIEKLGYEADQQK  311
NTDB id 1058 ABD1 RS01615 WP 001274986.1      QLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKA  311
NTDB id 1018 ACIAD RS01685 WP 004920473.1      QLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKA  311
consensus                                       *  ****!*!**!  *!!  !*!*!!!!********  ***!*!!***!!**!!!*!*!*!*** ! ! !* !!*   !*
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1     LYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDP   387
NTDB id 1293 VP RS12240 WP 005479695.1          LYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDP   387
NTDB id 1401 DSB67 RS12665 WP 010643259.1       LYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDP   387
NTDB id 1110 NGFG RS09235 WP 003689817.1        LLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLRQDP   378
NTDB id 1251 GC085 RS07725 WP 011946523.1       NFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDP   396
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1   LFLDAIHKPYGMVLVTGPTGSGKTVSLYTALGILNDETRNISTAEDPVEIRLPGVNQVQQNVKRGMTFAAALRSFLRQDP   391
NTDB id 1058 ABD1 RS01615 WP 001274986.1        LFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDP   391
NTDB id 1018 ACIAD RS01685 WP 004920473.1       LFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDP   391
consensus                                       ****!* *!*!!*!*!!!!!!!!!!*!!!*!*!!!*  *!!*!!!!!*!!** !*!!!****!*!**!**!!*!!!!!!!
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1     DVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RP   466
NTDB id 1293 VP RS12240 WP 005479695.1          DVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EH   466
NTDB id 1401 DSB67 RS12665 WP 010643259.1       DVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ.EP   466
NTDB id 1110 NGFG RS09235 WP 003689817.1        DIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERP   458
NTDB id 1251 GC085 RS07725 WP 011946523.1       DIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDF   476
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1   DIIMVGEIRDLETAEIAIKAAQTGHMVLSTLHTNDAPQTIARLMNMGIAPYNITSSVTLVIAQRLARRLCNNCKRK.STL   470
NTDB id 1058 ABD1 RS01615 WP 001274986.1        DIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIP.ADI   470
NTDB id 1018 ACIAD RS01685 WP 004920473.1       DIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRP.IQV   470
consensus                                       !**!!!!!!!!*!!*!!*!!*!!!!*!*!!!!!!*!**!* !* !!!* **!***!**!**!!!!*!*!!   !*
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1     SALLQSQFAFQPNEI....LYEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQES   541
NTDB id 1293 VP RS12240 WP 005479695.1          TVQL.QHLGIQTTDN....IFRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAIANGMSTLQMS   540
NTDB id 1401 DSB67 RS12665 WP 010643259.1       NSQL.QHIGIANTEQ....IFQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAIANGMQTLQMS   540
NTDB id 1110 NGFG RS09235 WP 003689817.1        SASALKEVGFTDEDLAK.DWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAYKEGMVDLRRA   537
NTDB id 1251 GC085 RS07725 WP 011946523.1       TNQGLIELGFKEADLVN..LKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQS   553
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1   PEHALLAEGFTPEQVAN..IELYEAVGCDECT.EGYKGRTGIYQVMPMTDEIGAIVLEGGNAMQIAEAAQKIGIRDLRQS   547
NTDB id 1058 ABD1 RS01615 WP 001274986.1        PKQSLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASEKLGFNNLRRS   549
NTDB id 1018 ACIAD RS01685 WP 004920473.1       PERSLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAETLGFNNLRRS   549
consensus                                           *  ***   **    * **  *!! *!*  !!*!! !***!* ** **  ***  *  ***  **   !*  *  *
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logo
NTDB id 1168 A1552VC RS11070 WP 000957200.1     GLEKLREGITSFAELQRVLYF   562
NTDB id 1293 VP RS12240 WP 005479695.1          GIEKLKQGITSFSELQRVLYF   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1       GIEKLKQGITSFRELQRVLYF   561
NTDB id 1110 NGFG RS09235 WP 003689817.1        GILKIMQGITSLEEVTANTND   558
NTDB id 1251 GC085 RS07725 WP 011946523.1       GIEKVKEGITTIEEVNRVTVD   574
NTDB id 1000248 ABFU67 RS05515 WP 228943908.1   ALMKASHGVTSLAEINRVTKD   568
NTDB id 1058 ABD1 RS01615 WP 001274986.1        GLKKVMQGVTSLQEVNRVTSE   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1       GLKKVMQGVTSLQEINRVTSE   570
consensus                                       ** !* *!*!** !***** *
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X non conserved
X similar
X $\geq$50% conserved