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logo

NTDB id 1306 DR RS10060 WP 027479822.1         MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR 80
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ................................................................................ 0
NTDB id 1293 VP RS12240 WP 005479695.1         ................................................................................ 0
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ................................................................................ 0
NTDB id 1110 NGFG RS09235 WP 003689817.1       ................................................................................ 0
NTDB id 1251 GC085 RS07725 WP 011946523.1      ................................................................................ 0
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1  ................................................................................ 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1       ................................................................................ 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1      ................................................................................ 0
consensus

logo

NTDB id 1306 DR RS10060 WP 027479822.1         SIRPQTALNLQAFPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA 160
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ................................................................................ 0
NTDB id 1293 VP RS12240 WP 005479695.1         ................................................................................ 0
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ................................................................................ 0
NTDB id 1110 NGFG RS09235 WP 003689817.1       ................................................................................ 0
NTDB id 1251 GC085 RS07725 WP 011946523.1      ................................................................................ 0
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1  ................................................................................ 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1       ................................................................................ 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1      ................................................................................ 0
consensus

logo

NTDB id 1306 DR RS10060 WP 027479822.1         GRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM 240
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ................................................................................ 0
NTDB id 1293 VP RS12240 WP 005479695.1         ................................................................................ 0
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ................................................................................ 0
NTDB id 1110 NGFG RS09235 WP 003689817.1       ................................................................................ 0
NTDB id 1251 GC085 RS07725 WP 011946523.1      ................................................................................ 0
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1  ................................................................................ 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1       ................................................................................ 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1      ................................................................................ 0
consensus

logo

NTDB id 1306 DR RS10060 WP 027479822.1         LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQL 320
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ............................................................MLTNLVAILRQAELISATQ. 19
NTDB id 1293 VP RS12240 WP 005479695.1         ............................................................MHSNLSTILRQKGLLTFSQ. 19
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ............................................................MLTNLSTVLRQAGILTFSQ. 19
NTDB id 1110 NGFG RS09235 WP 003689817.1       ............................................................MSVGLLRILVQNQVVTVEQ. 19
NTDB id 1251 GC085 RS07725 WP 011946523.1      ....................................................MALATEEYRLQGIGQLLVLEKLLDKTK. 27
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1  ..................................................MNSVSTTNLVGITGIARRLVQDGALEETA. 29
NTDB id 1058 ABD1 RS01615 WP 001274986.1       ..................................................MS..ALHTSPKFTGFFRRLVEEKHVSAAT. 27
NTDB id 1018 ACIAD RS01685 WP 004920473.1      ..................................................MS..AFTTPPKFSGFIRRLVEEGYVNAQN. 27
consensus                                                                                                    ***  *!******* **
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          REALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQSGKLSPEMLARSLAAQLGYEFLDPIQNPP   400
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..............................EQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDY    69
NTDB id 1293 VP RS12240 WP 005479695.1          ..............................EESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEY    69
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..............................EESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEY    69
NTDB id 1110 NGFG RS09235 WP 003689817.1        ..............................AEHYYNESQA.GKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPR    68
NTDB id 1251 GC085 RS07725 WP 011946523.1       ..............................AIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDV    77
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   ..............................ARTAMEQAAAAKVPLPQWFAENRLVSASQLAAANAVEFGMPLMDVSVFDA    79
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ..............................MQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDT    77
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ..............................MQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDP    77
consensus                                                                       * **   * *  *   **    **   *** **  **** ***  **
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NTDB id 1306 DR RS10060 WP 027479822.1          DPKVALMIPEATARRYVVVPVRLQGNSLVVAMKDPRNVFALDDLKLITGKEILPAVMAEKDIIRLIERYFGEKGFEKLNK   480
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ANLCQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATGLQVELALADHRALQAAIRRLYGRSIQGAANQ   149
NTDB id 1293 VP RS12240 WP 005479695.1          ASLCQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHEKSG   149
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAAIRRLYGRSLGQEKSG   149
NTDB id 1110 NGFG RS09235 WP 003689817.1        HRVLMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSTSLLQEL   148
NTDB id 1251 GC085 RS07725 WP 011946523.1       GTIPVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSE   157
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   NQNAVKLVSEELLQKYHVLPLFKRGNRLFVGVSNPTQTRALDDIKFHTNLVVEPILVDEDQIRRTLEQWQASNASFGSSL   159
NTDB id 1058 ABD1 RS01615 WP 001274986.1        SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDFND   157
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFNFDT   157
consensus                                       * *   ** **** ** **!* ***  *******!*** ******* *** ** ****   *  **  ***   *
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NTDB id 1306 DR RS10060 WP 027479822.1          ELA.............ERNKTQQSQEADLSVADESAIVQVVDSIIREAALQDASDIHIETTEDAVKVRYRIDGALREQNS   547
NTDB id 1168 A1552VC RS11070 WP 000957200.1     GKEISQDELANLVK....VSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQ   225
NTDB id 1293 VP RS12240 WP 005479695.1          LKEINQEELASLVD....VGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQ   225
NTDB id 1401 DSB67 RS12665 WP 010643259.1       LKEINQDELAGLVD....IGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQ   225
NTDB id 1110 NGFG RS09235 WP 003689817.1        GEGQ.E............EEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQ   215
NTDB id 1251 GC085 RS07725 WP 011946523.1       YVEDSGDLEGLEISADD...EDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVAT   234
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   GNDD.EEMGDLDVSTGDEDMGAGGDSGVDAKGDDTPVVKFVNKVLVDAIRRGASDIHFEPYEDDYRVRLRIDGLLKNVAK   238
NTDB id 1058 ABD1 RS01615 WP 001274986.1        .....EE.FDLDVN..LDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIAN   229
NTDB id 1018 ACIAD RS01685 WP 004920473.1       .....EE.LDLDVE..VDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIAT   229
consensus                                         *   *     *           *  **   ***************!** *!!!*!*!**!  ***!*!*!!*!*** *
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          FPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRF..KKGSIDLDLRLSTLPTVYGEKAVMRLLQKASNIPELEQLGFSEY   625
NTDB id 1168 A1552VC RS11070 WP 000957200.1     PASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQ   304
NTDB id 1293 VP RS12240 WP 005479695.1          PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQ   304
NTDB id 1401 DSB67 RS12665 WP 010643259.1       PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDS   304
NTDB id 1110 NGFG RS09235 WP 003689817.1        PPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPF   295
NTDB id 1251 GC085 RS07725 WP 011946523.1       PPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPV   313
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   APVKLSQRIAARLKVMSQLDIAEKRVPQDGRIKLNLSK.TKQIDFRVSTLPTLFGEKVVLRILDGSAAKLGIDKLGYEPD   317
NTDB id 1058 ABD1 RS01615 WP 001274986.1        PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEED   308
NTDB id 1018 ACIAD RS01685 WP 004920473.1       PPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPE   308
consensus                                       **  ** ****!*!*** *!!*!*!*!!!!******** ****!*!****!!**!!!*!*!*!***** * ** !!* *
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logo
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NTDB id 1306 DR RS10060 WP 027479822.1          NYARYTEIIERPNGIFLVTGPTGSGKSFTCFSTLKRIAKPEKNTTTIEDPIEYEVPGIVQSQVNNSTGMTFARALRAFLR   705
NTDB id 1168 A1552VC RS11070 WP 000957200.1     QKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLR   384
NTDB id 1293 VP RS12240 WP 005479695.1          QKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLR   384
NTDB id 1401 DSB67 RS12665 WP 010643259.1       QKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLR   384
NTDB id 1110 NGFG RS09235 WP 003689817.1        QKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLR   375
NTDB id 1251 GC085 RS07725 WP 011946523.1       QRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLR   393
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   QQKLFLEAIHKPYGMVLVTGPTGSGKTVSLYTALGILNDETRNISTAEDPVEIRLPGVNQVQQNNKRGMTFAAALRSFLR   397
NTDB id 1058 ABD1 RS01615 WP 001274986.1        QKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLR   388
NTDB id 1018 ACIAD RS01685 WP 004920473.1       QKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLR   388
consensus                                       ** ****** *!*!**!*!!!!!!!!******!*****  *!**!*!!!*!****!**!******!**!**!!**!!!
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NTDB id 1306 DR RS10060 WP 027479822.1          QDPDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAPGAVTRLEEMGIENFNISAAVMGVLAQRLVRRVCSECKQPT   785
NTDB id 1168 A1552VC RS11070 WP 000957200.1     QDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV   464
NTDB id 1293 VP RS12240 WP 005479695.1          QDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ   464
NTDB id 1401 DSB67 RS12665 WP 010643259.1       QDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ   464
NTDB id 1110 NGFG RS09235 WP 003689817.1        QDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEV   455
NTDB id 1251 GC085 RS07725 WP 011946523.1       QDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVR   473
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   QDPDIIMVGEIRDLETAEIAIKAAQTGHMVLSTLHTNDAPQTIARLMNMGIAPYNITSSVTLVIAQRLARRLCNNCKRK.   476
NTDB id 1058 ABD1 RS01615 WP 001274986.1        QDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIP.   467
NTDB id 1018 ACIAD RS01685 WP 004920473.1       QDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRP.   467
consensus                                       !!!!***!!!!!!**!!*!!**!**!!!*!**!!!!!*!**** !* *!!* **!**********!!!!*!**!  !* *
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logo
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NTDB id 1306 DR RS10060 WP 027479822.1          .NADPEVLRRLGISERDIRG..ANLMRGTGCPRCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRS   862
NTDB id 1168 A1552VC RS11070 WP 000957200.1     .RPSALLQSQFAFQPNEIL....YEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.ANGMQT   537
NTDB id 1293 VP RS12240 WP 005479695.1          .EHTVQL.QHLGIQTTDNI....FRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.ANGMST   536
NTDB id 1401 DSB67 RS12665 WP 010643259.1       .EPNSQL.QHIGIANTEQI....FQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.ANGMQT   536
NTDB id 1110 NGFG RS09235 WP 003689817.1        ERPSASALKEVGFTDEDLAK.DWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAY.KEGMVD   533
NTDB id 1251 GC085 RS07725 WP 011946523.1       DDFTNQGLIELGFKEADLVN..LKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLT   549
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   STLPEHALLAEGFTPEQVAN..MELYEAVGCDECT.EGYKGRTGIYQVMPMTDEIGAIVLEGGNAMQIAEAAQ.KIGIRD   552
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ADIPKQSLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.KLGFNN   545
NTDB id 1018 ACIAD RS01685 WP 004920473.1       IQVPERSLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNN   545
consensus                                                *  ****  **      ** **!! *!*  !!*!!*!***** ***** ***  **  ***  **    !* *
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logo
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NTDB id 1306 DR RS10060 WP 027479822.1          LRQDGIEKALQGLTTLEEVLAVTAS   887
NTDB id 1168 A1552VC RS11070 WP 000957200.1     LQESGLEKLREGITSFAELQRVLYF   562
NTDB id 1293 VP RS12240 WP 005479695.1          LQMSGIEKLKQGITSFSELQRVLYF   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1       LQMSGIEKLKQGITSFRELQRVLYF   561
NTDB id 1110 NGFG RS09235 WP 003689817.1        LRRAGILKIMQGITSLEEVTANTND   558
NTDB id 1251 GC085 RS07725 WP 011946523.1       IFQSGIEKVKEGITTIEEVNRVTVD   574
NTDB id 1076830 ACJGEU RS07775 WP 011408072.1   LRQSALMKASQGVTSLAEINRVTKD   577
NTDB id 1058 ABD1 RS01615 WP 001274986.1        LRRSGLKKVMQGVTSLQEVNRVTSE   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1       LRRSGLKKVMQGVTSLQEINRVTSE   570
consensus                                       ** ****!* *!*!** !***** *
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X non conserved
X similar
X $\geq$50% conserved