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NTDB id 1028 TT RS08215 WP 011173991.1          KEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGRLEDTLVQSGKLRPEALAQAVATQLGYPYVDPEEDPP   400
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDY    69
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEY    69
NTDB id 1293 VP RS12240 WP 005479695.1          ..........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEY    69
NTDB id 1044604 ACEN9T RS11040 WP 252690568.1   ...MTLGLAL....AQSRRIAPTL.LTQLEQ.....SAREKRTQLIDELVGSGIMSAHDLAVFVAGKYQMPLLDLAQYKL    67
NTDB id 1110 NGFG RS09235 WP 003689817.1        ...MSVGLLR....IL....VQNQ.VVTVEQAEHYYNESQAGKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPR    68
NTDB id 1251 GCO85 RS07725 WP 011946523.1       ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDV    77
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDT    77
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDP    77
consensus                                          *          * *  ***   ***        *   *  *  *** **  * **   *** **  **** ***  **
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NTDB id 1028 TT RS08215 WP 011173991.1          DPGAPLLLPEDLCRRYGVFPHRLEGNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPAVATEAAITKLIERFYGKAEL   480
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ANLCQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALADHRALQAAIRRLYGRSIQ   144
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATG.....LQVELVLADFRELTAAIRRLYGRSLG   144
NTDB id 1293 VP RS12240 WP 005479695.1          ASLCQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATG.....LQVELVLADFRELSTAIRRLYGRSLS   144
NTDB id 1044604 ACEN9T RS11040 WP 252690568.1   DTVPAVLSANKHFAQLRLLPLGRRENRLILATSDPSDPKPIEELRQKMN.....VAIETVIVEHDKLVRQLSLANEAPAE   142
NTDB id 1110 NGFG RS09235 WP 003689817.1        HRVLMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELVIVEDDQLAGLLDWVGSRSTS   143
NTDB id 1251 GCO85 RS07725 WP 011946523.1       GTIPVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVETDKLSALIDNLLTAKES   152
NTDB id 1058 ABD1 RS01615 WP 001274986.1        SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVEHHKLEKVLGQHFAEESS   152
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPIIVEHDKLERLLSEHFVEETH   152
consensus                                       * *   **  *** *  **!* ***  *******!*** **********      * ** ****   *  **  ****
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NTDB id 1028 TT RS08215 WP 011173991.1          SEIAKEFAKK.............QAEEEVPSPLELDESAAQKFVKQVIREAFLQDASDIHIEPRQNDVQVRLRIDGALR   546
NTDB id 1168 A1552VC RS11070 WP 000957200.1     GAANQG..KEISQDELANLVKV.SDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILV   221
NTDB id 1401 DSB67 RS12665 WP 010643259.1       QEKSGL..KEINQDELAGLVDI.GEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILI   221
NTDB id 1293 VP RS12240 WP 005479695.1          HEKSGL..KEINQEELASLVDV.GADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILI   221
NTDB id 1044604 ACEN9T RS11040 WP 252690568.1   IK..SLFT...KQEATQIEYDPGAAAATRRTTADGIDDAPVVRFLQKLFTEALLRGASDLHFEPFETFYRVRFRIDGILA   217
NTDB id 1110 NGFG RS09235 WP 003689817.1        LL..QELG......EGQE....EEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLR   211
NTDB id 1251 GCO85 RS07725 WP 011946523.1       QGLSEYVEDSGDLEGLEISAD..DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILH   230
NTDB id 1058 ABD1 RS01615 WP 001274986.1        FDFNDE...EFD...LDVNLDG.PTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLR   225
NTDB id 1018 ACIAD RS01685 WP 004920473.1       FNFDTE...ELD...LDVEVDP.HTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLR   225
consensus                                          *   * *   **     * * *    *****  **********!** *!!!*!*!***   ***!*!*!!*!
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NTDB id 1028 TT RS08215 WP 011173991.1          PYSTLPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRYREG.............AIDVDLRLSTLPTVYGEKAVMRLLK   612
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ETQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.............DTAIDMRVSTLPTLWGEKIVLRLLD   288
NTDB id 1401 DSB67 RS12665 WP 010643259.1       EIQQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.............DTAIDMRVSTLPTLFGEKIVLRLLD   288
NTDB id 1293 VP RS12240 WP 005479695.1          ETQQPPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.............DTAIDMRVSTLPTLFGEKIVLRLLD   288
NTDB id 1044604 ACEN9T RS11040 WP 252690568.1   QVAQPPLDIRDKIATRIKVLSRLDISEKRVPQDGRMKLLITVPKDRKDKDNKETIERAIDFRVSTLPTLFGEKIVIRILE   297
NTDB id 1110 NGFG RS09235 WP 003689817.1        EVVQPPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQK.............GGKPVDFRVSTLPTLFGEKVVMRILN   279
NTDB id 1251 GCO85 RS07725 WP 011946523.1       EVATPPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.............SRAIDFRVSTCPTSAGEKVVMRVLD   297
NTDB id 1058 ABD1 RS01615 WP 001274986.1        QIANPPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.............SKAIDFRVNSLPTLFGEKLVLRILD   292
NTDB id 1018 ACIAD RS01685 WP 004920473.1       LIATPPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.............SKTIDFRVNSLPTLFGEKIVLRILD   292
consensus                                       ** ***   *   ******!******!*!*!*!!!!*********      ***!*!****!!**!!!*!*!*!*
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NTDB id 1028 TT RS08215 WP 011173991.1          KASDIPEIEDLGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATPDKNTQTIEDPVEYEIPGINQTQVN  692
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 1044604 ACEN9T RS11040 WP 252690568.1   SSTERLDIDQLGYEPEQKQLLLDVIKRPYGMVLVTGPTGSGKTVSLYTFLNRLNQGDINISTAEDPAEIQLPGINQVNVN  377
NTDB id 1110 NGFG RS09235 WP 003689817.1        SDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVN  359
NTDB id 1251 GCO85 RS07725 WP 011946523.1       SGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNIN  377
NTDB id 1058 ABD1 RS01615 WP 001274986.1        PSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVN  372
NTDB id 1018 ACIAD RS01685 WP 004920473.1       PASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVN  372
consensus                                       **** **!* !!* * ** ****** *!*!**!*!!!!!!!!*******!***** **!**!*!!!*!****!*!!****
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NTDB id 1028 TT RS08215 WP 011173991.1          PQAGLTFARALRAFLRQDPDIIMVGEIRDSETAKIATEAALTGHLVIATLHTNDAAQAITRLDEMGVEPFNISAALIGVL  772
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 1044604 ACEN9T RS11040 WP 252690568.1   DKAGLTFAAALKSFLRQDPDIIMVGEIRDLETADISIKAAQTGHLVFSTLHTNDAPTTLTRLMNMGVAPFNIASSVLLIT  457
NTDB id 1110 NGFG RS09235 WP 003689817.1        DKQGLTFAAALKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIM  439
NTDB id 1251 GCO85 RS07725 WP 011946523.1       PKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLII  457
NTDB id 1058 ABD1 RS01615 WP 001274986.1        PKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVI  452
NTDB id 1018 ACIAD RS01685 WP 004920473.1       PKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVI  452
consensus                                       ***!**!**!!**!!!!!!!**!!!!!!!**!!*!***!**!!!*!**!!!!!*!******!* *!!* *!!*********
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NTDB id 1028 TT RS08215 WP 011173991.1          SQRLVRRVCEHCKVEV.KPDPETLRRLGLSEAEIQG..ARLYKGMGCERCGGTGYKGRYAIHELLVVDDEIRHAIVAGKS  849
NTDB id 1168 A1552VC RS11070 WP 000957200.1     AQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEI....LYEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRAS  522
NTDB id 1401 DSB67 RS12665 WP 010643259.1       AQRLARKLCPYCRQPQ.EPNSQLQH.IGIANTEQ....IFQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGAS  521
NTDB id 1293 VP RS12240 WP 005479695.1          AQRLARKLCPYCKQPQ.EHTVQLQH.LGIQTTDN....IFRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGAS  521
NTDB id 1044604 ACEN9T RS11040 WP 252690568.1   AQRLARRLCKDCKKPGPLPKE.TLLDAGFTEADVDG.SWQPYHPVGCETCNGSGYKGRVGIYQVMPITEAIQEIILTHGT  535
NTDB id 1110 NGFG RS09235 WP 003689817.1        AQRLLRRLCSSCKQEVERPSASALKEVGFTDEDLAK.DWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGT  518
NTDB id 1251 GCO85 RS07725 WP 011946523.1       AQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLV..NLKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGN  534
NTDB id 1058 ABD1 RS01615 WP 001274986.1        AQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGN  530
NTDB id 1018 ACIAD RS01685 WP 004920473.1       AQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGN  530
consensus                                       *!!!*!**!  !* *  *   * ******* **       ** **!! *!   !!*!!******* *****  ***  **
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NTDB id 1028 TT RS08215 WP 011173991.1          ATEIKEIARRKGMKTLREDGLYKALQGITTLEEVLART  889
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 1044604 ACEN9T RS11040 WP 252690568.1   ALQIAEQARKEGVLSLRESGLRKVKQGLTSLEEVLATTNQ  575
NTDB id 1110 NGFG RS09235 WP 003689817.1        EVGILDVAYKEGMVDLRRAGILKIMQGITSLEEVTANTND  558
NTDB id 1251 GCO85 RS07725 WP 011946523.1       SLDILKLAQSEGMLTIFQSGIEKVKEGITTIEEVNRVTVD  574
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ALEIAAASEKLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE  570
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ALEIAATAETLGFNNLRRSGLKKVMQGVTSLQEINRVTSE  570
consensus                                        *** **   !* *** *!* !***!*!** !***** *
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X non conserved
X similar
X ≥ 50% conserved