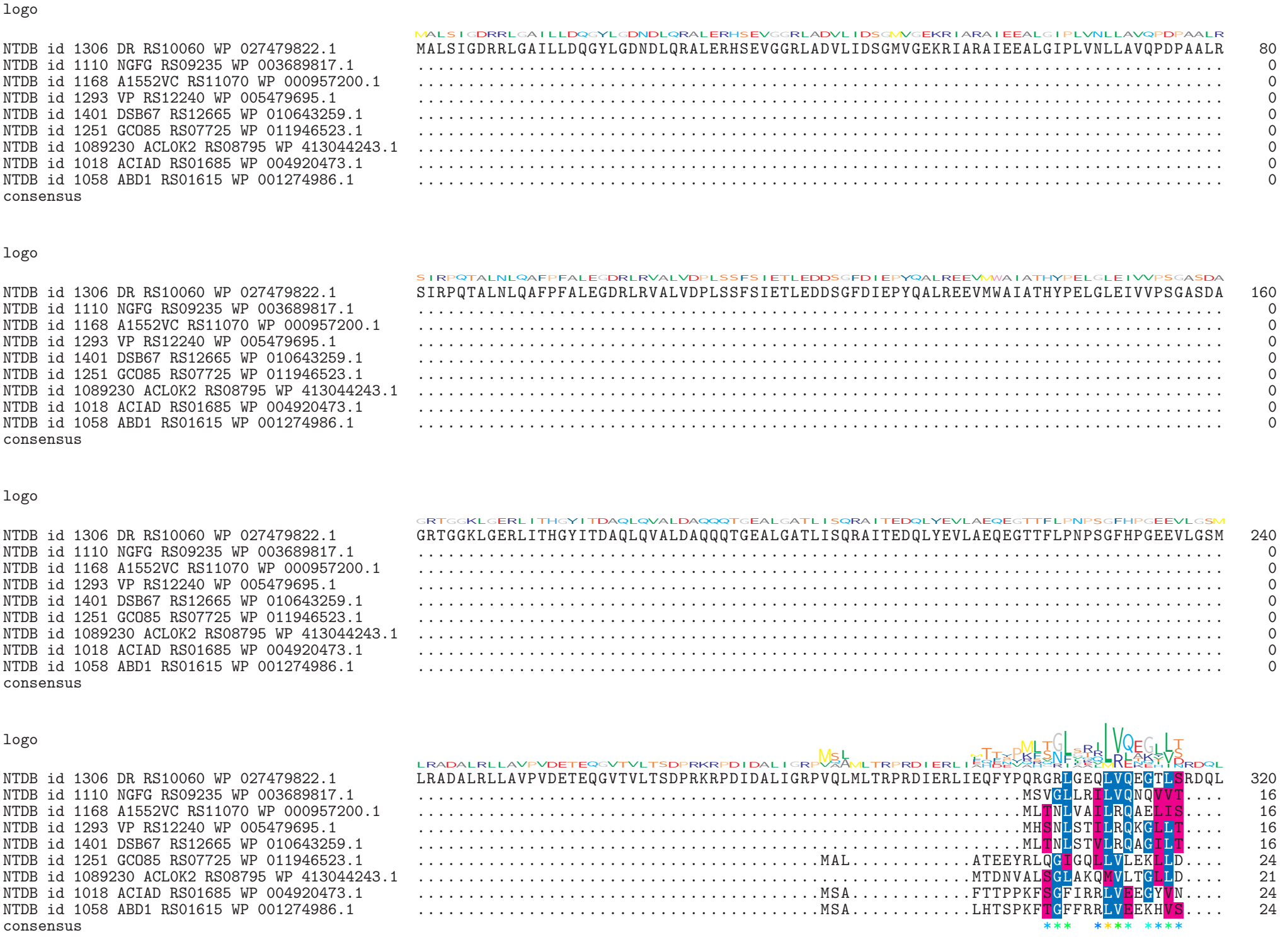
logo
NTDB id 1306 DR RS10060 WP 027479822.1 MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR 80
NTDB id 1110 NGFG RS09235 WP 003689817.1 0
NTDB id 1168 A1552VC RS11070 WP 000957200.1 0
NTDB id 1293 VP RS12240 WP 005479695.1 0
NTDB id 1401 DSB67 RS12665 WP 010643259.1 0
NTDB id 1251 GCO85 RS07725 WP 011946523.1 0
NTDB id 1089230 ACL0K2 RS08795 WP 413044243.1 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1 0
consensus
logo
NTDB id 1306 DR RS10060 WP 027479822.1 SIRPQTALNLQAFPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA 160
NTDB id 1110 NGFG RS09235 WP 003689817.1 0
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 1251 GCO85 RS07725 WP 011946523.1 0
NTDB id 1089230 ACL0K2 RS08795 WP 413044243.1 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1 0
consensus
logo
NTDB id 1306 DR RS10060 WP 027479822.1 GRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM 240
NTDB id 1110 NGFG RS09235 WP 003689817.1 0
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 1251 GCO85 RS07725 WP 011946523.1 0
NTDB id 1089230 ACL0K2 RS08795 WP 413044243.1 0
NTDB id 1018 ACIAD RS01685 WP 004920473.1 0
NTDB id 1058 ABD1 RS01615 WP 001274986.1 0
consensus
logo
NTDB id 1306 DR RS10060 WP 027479822.1 LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQL 320
NTDB id 1110 NGFG RS09235 WP 003689817.1 MSVGLLRILVQNQVVT 16
NTDB id 1168 A1552VC RS11070 WP 000957200.1 MLTNLVAILRQAELIS 16
NTDB id 1293 VP RS12240 WP 005479695.1 MHSNLSTILRQKGLLT 16
NTDB id 1401 DSB67 RS12665 WP 010643259.1 MLTNLSTVLRQAGILT 16
NTDB id 1251 GCO85 RS07725 WP 011946523.1 MAL ATEEYRLQGIGQLLVLEKLLD 24
NTDB id 1089230 ACL0K2 RS08795 WP 413044243.1 MTDNVALSGLAKQMVLTGLLD 21
NTDB id 1018 ACIAD RS01685 WP 004920473.1 MSA FTTPPKFSGFIRRLVEEGYVN 24
NTDB id 1058 ABD1 RS01615 WP 001274986.1 MSA LHTSPKFTGFFRRLVEEKHVS 24
consensus

logo

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NTDB id 1306 DR RS10060 WP 027479822.1          REALQVQARECGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQSGKLSPEMLARSLAAQLGYEFLDPIQNPP  400
NTDB id 1110 NGFG RS09235 WP 003689817.1        ..........................VEQAEHYYNE.SQAGKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPR   68
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..........................ATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDY   69
NTDB id 1293 VP RS12240 WP 005479695.1          ..........................FSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEY   69
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..........................FSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEY   69
NTDB id 1251 GCO85 RS07725 WP 011946523.1       ..........................KTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDV   77
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   ..........................NKTAQQAQQQAARSKLSLVTYVVQNKLANGRAVAELAAEQFGVAYMDLNALDK   74
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ..........................AQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDP   77
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ..........................AATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDT   77
consensus                                                                  *    *      * ***  **    **   *** **  ***  ***  **
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          DPKVALMIPEATARRYVVPVRLQGNSLVVAMKDPRNVFALDDLKLITGKEILPAVMAEKDIIRLIERYFGEKGFEKLN.  479
NTDB id 1110 NGFG RS09235 WP 003689817.1        HRVLMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSTSLLQEL  148
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 1251 GCO85 RS07725 WP 011946523.1       GTIPVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQQGLSE  157
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   ESQLKDVVSEKLARQHRVLPLLKRGHKLFVAVSDPTNQQAVTDIQFSTGLTAEAILVEDDKLGQAIDKFFESSTSGLE..  152
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFNF..  155
NTDB id 1058 ABD1 RS01615 WP 001274986.1        SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDF..  155
consensus                                       * *   ** * ** ** **!* ***  ***!***!*** ******* *** ** ****   *  ** **** * *
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          ..........KELAERNKTQQSQEADLSVADESAIVQVVDSIIREAALQDASDIHIETTEDAVKVRYRIDGALREQNSFP  549
NTDB id 1110 NGFG RS09235 WP 003689817.1        GEGQEE..........EESHTLYIDNEEAAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQPP  217
NTDB id 1168 A1552VC RS11070 WP 000957200.1     GKEISQDELANLVK..VSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPA  227
NTDB id 1293 VP RS12240 WP 005479695.1          LKEINQEELASLVD..VGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQPP  227
NTDB id 1401 DSB67 RS12665 WP 010643259.1       LKEINQDELAGLVD..IGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIETQQPP  227
NTDB id 1251 GCO85 RS07725 WP 011946523.1       YVEDSG.DLEGLEISADDEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPP  236
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   .DLGDV.DLDGVDVQTVSDDGANDDTIEAADDAPVVRFVNKMLLDAIRGGSSDLHFEPYEKAFRVRLRTDGILHEVARPP  230
NTDB id 1018 ACIAD RS01685 WP 004920473.1       .DTEEL.DLDVEVDPHT..TDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIATPP  231
NTDB id 1058 ABD1 RS01615 WP 001274986.1        .NDEEF.DLDVNLDGPT..AQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIANPP  231
consensus                                         *    **  **      **   * *    **************!** **!!*!*!**!* ***!*!  !!*!  **  ***
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          KGAAQQIMARLKIMGHLDIAERRVPQDGRVRF..KKGGSIDLDLRLSTLPTVYGEKAVMRLLQKASNIPELEQLGFSEYNY  627
NTDB id 1110 NGFG RS09235 WP 003689817.1        IAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQK  297
NTDB id 1168 A1552VC RS11070 WP 000957200.1     SHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQK  306
NTDB id 1293 VP RS12240 WP 005479695.1          NHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQK  306
NTDB id 1401 DSB67 RS12665 WP 010643259.1       SHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQK  306
NTDB id 1251 GCO85 RS07725 WP 011946523.1       ASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQR  315
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   IQLAPRISARLKVMAGLDISERRKPQDGRIKMKLSK.TKAIDFRVNTLPTLWGEKIVMRILDPSSAQMGIDALGYEEDQK  309
NTDB id 1018 ACIAD RS01685 WP 004920473.1       LQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQK  310
NTDB id 1058 ABD1 RS01615 WP 001274986.1        LQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQK  310
consensus                                         *  ** *!*!*** *!!*!*!*!!!!********* ****!*!****!!**!!!*!*!*!***** * * ** !!* * **
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          ARYTEIIERPNGIFLVTGPTGSGKSFTCFSTLKRIAKPEKNTTTIEDPIEYEVPGIVQSQVNNSTGMTFARALRAFLRQD   707
NTDB id 1110 NGFG RS09235 WP 003689817.1        KLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLRQD   377
NTDB id 1168 A1552VC RS11070 WP 000957200.1     QLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQD   386
NTDB id 1293 VP RS12240 WP 005479695.1          QLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQD   386
NTDB id 1401 DSB67 RS12665 WP 010643259.1       QLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQD   386
NTDB id 1251 GCO85 RS07725 WP 011946523.1       TNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQD   395
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   ELYMNALKQPQGMILVTGPTGSGKTVSLYTGLNILNTVDVNISTAEDPVEINLEGINQVNVNPRQGMDFSQALRAFLRQD   389
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQD   390
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQD   390
consensus                                        ****** *!*!**!*!!!!!!!!*******!***** **!**!*!!!*!*** !**!*******!**!* !!**!!!!!
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          PDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAPGAVTRLEEMGIENFNISAAVMGVLAQRLVRRVCSECKQPTN.   786
NTDB id 1110 NGFG RS09235 WP 003689817.1        PDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVER   457
NTDB id 1168 A1552VC RS11070 WP 000957200.1     PDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAVR.   465
NTDB id 1293 VP RS12240 WP 005479695.1          PDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQE.   465
NTDB id 1401 DSB67 RS12665 WP 010643259.1       PDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQE.   465
NTDB id 1251 GCO85 RS07725 WP 011946523.1       PDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDD   475
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   PDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAAETLTRLRNMGVAAFNIATSVNLVIAQRLARKLCNSCKKEV.E   468
NTDB id 1018 ACIAD RS01685 WP 004920473.1       PDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.Q   469
NTDB id 1058 ABD1 RS01615 WP 001274986.1        PDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.D   469
consensus                                        !!***!!!!!!**!!*!!**!**!!!*!**!!!!!*!*****!* *!!* *!!*********!!!!*!**!  !* *
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          ADPEVLRRLGISERDI..RGANLMRGTGCPRCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRSLR   864
NTDB id 1110 NGFG RS09235 WP 003689817.1        PSASALKEVGFTDEDLA.KDWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAY.KEGMVDLR   535
NTDB id 1168 A1552VC RS11070 WP 000957200.1     PSALLQSQFAFQPNEI....LYEANAAGCNECTG.GYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.ANGMQTLQ   539
NTDB id 1293 VP RS12240 WP 005479695.1          HTVQL.QHLGIQTTDN....IFRANPDGCNECTH.GYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.ANGMSTLQ   538
NTDB id 1401 DSB67 RS12665 WP 010643259.1       PNSQL.QHTGIANTEQ....IFQANPDGCNECTH.GYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.ANGMQTLQ   538
NTDB id 1251 GCO85 RS07725 WP 011946523.1       FTNQGLIELGFKEADL..VNLKLYKAVGCEQCTS.GYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLTIF   551
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   LPREALMEEGFPADKI..GTFKVYGPVGCENCKG.GYKGRVGIYEVVKNTPALARIIMEDGNSIDISTQMR.KDGFNDLR   544
NTDB id 1018 ACIAD RS01685 WP 004920473.1       VPERSLLEMGFTPEDLAQPEFQIFEPVGCHDCRE.GYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNNLR   547
NTDB id 1058 ABD1 RS01615 WP 001274986.1        IPKQSLLEMGFTEQDLAHPDFRVFQPVGCLECRE.GYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.KLGFNNLR   547
consensus                                            * ****   **       ** **!! *!   !!*!!*!**!***** ** **** *  *** **    !*****
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logo

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NTDB id 1306 DR RS10060 WP 027479822.1          QDGIEKALQGLTTLEEVLAVTAS   887
NTDB id 1110 NGFG RS09235 WP 003689817.1        RAGILKIMQGITSLEEVTANTND   558
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ESGLEKLREGITSFAELQRVLYF   562
NTDB id 1293 VP RS12240 WP 005479695.1          MSGIEKLKQGITSFSELQRVLYF   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1       MSGIEKLKQGITSFRELQRVLYF   561
NTDB id 1251 GCO85 RS07725 WP 011946523.1       QSGIEKVKEGITTIEEVNRVTVD   574
NTDB id 1089230 ACLOK2 RS08795 WP 413044243.1   TSALVKAMQGVTSLEEVNRVTKD   567
NTDB id 1018 ACIAD RS01685 WP 004920473.1       RSGLKKVMQGVTSLQEINRVTSE   570
NTDB id 1058 ABD1 RS01615 WP 001274986.1        RSGLKKVMQGVTSLQEVNRVTSE   570
consensus                                        ****!***!*!** !***** *
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X non conserved
X similar
X ≥ 50% conserved