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logo
                                                MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR
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 1251 GC085 RS07725 WP 011946523.1       ................................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ................................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ................................................................................    0
NTDB id 361649 FCL38 RS25795 WP 137316251.1     ................................................................................    0
NTDB id 1110 NGFG RS09235 WP 003689817.1        ................................................................................    0
consensus

logo
                                                SIRPQTALNLQAFPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA
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 1251 GC085 RS07725 WP 011946523.1       ................................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ................................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ................................................................................    0
NTDB id 361649 FCL38 RS25795 WP 137316251.1     ................................................................................    0
NTDB id 1110 NGFG RS09235 WP 003689817.1        ................................................................................    0
consensus

logo
                                                GRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM
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 1251 GC085 RS07725 WP 011946523.1       ................................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ................................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ................................................................................    0
NTDB id 361649 FCL38 RS25795 WP 137316251.1     ................................................................................    0
NTDB id 1110 NGFG RS09235 WP 003689817.1        ................................................................................    0
consensus

logo
                                                LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQL
NTDB id 1306 DR RS10060 WP 027479822.1          LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQL  320
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 GC085 RS07725 WP 011946523.1       ................................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ................................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ................................................................................    0
NTDB id 361649 FCL38 RS25795 WP 137316251.1     ................................................................................    0
NTDB id 1110 NGFG RS09235 WP 003689817.1        ................................................................................    0
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   ..........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDY    69
NTDB id 1293 VP RS12240 WP 005479695.1        ..........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEY    69
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ..........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEY    69
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDV    77
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDP    77
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDT    77
NTDB id 361649 FCL38 RS25795 WP 137316251.1   MAAVHPTTANAPMPGLARVLVQAGRLTAAQADALHKRAATEKQPFIDVLLGSGIIGARDLAAFCSETFAYPMLDLHAISA    80
NTDB id 1110 NGFG RS09235 WP 003689817.1      ..........MSVGLLRILVQNQVVTVEQAEHYYNES.QAGKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPR    68
consensus                                        *         ****  **** **** * * **      *  *** **  *  **   *** **  ** * ***  **
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logo



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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 1251 GCO85 RS07725 WP 011946523.1     GTIPVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSE   157
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFN.F.   155
NTDB id 1058 ABD1 RS01615 WP 001274986.1      SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFD.F.   155
NTDB id 361649 FCL38 RS25795 WP 137316251.1   AALPQAIIDEKLMQSGRVVALAKRGNKMSVAISDPTNTQALDQIKFQTESSVEPVIVPHDALLRLLHELGKCSAQLM.DE   159
NTDB id 1110 NGFG RS09235 WP 003689817.1      HRVLMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSTSLL.QE   147
consensus                                     * *   ** * ** *  **** ***  * *!***!*** ******* *** ** **** *  **  *** *
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logo



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NTDB id 1306 DR RS10060 WP 027479822.1        E..........LA..ERNKTQQSQEADLSVADESAIVQVVDSIIREAALQDASDIHIETTEDAVKVRYRIDGALREQNS   547
NTDB id 1168 A1552VC RS11070 WP 000957200.1   GKE..ISQDE..LANLVKVSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQ   225
NTDB id 1293 VP RS12240 WP 005479695.1        LKE..INQEE..LASLVDVGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQ   225
NTDB id 1401 DSB67 RS12665 WP 010643259.1     LKE..INQDE..LAGLVDIGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIETQQ   225
NTDB id 1251 GCO85 RS07725 WP 011946523.1     YVEDSGDLEGLEISADD...EDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYERERYRIRYRQDGILHEVAT   234
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ......DTEELDLDVEVDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIAT   229
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ......NDEEFDLDVNLDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIAN   229
NTDB id 361649 FCL38 RS25795 WP 137316251.1   LA...GADSEIQFAEEQDAAVPE...APATDIEDAPIVRFLNKMLMDAVNMGASDLHFEPFEKFYRIRFRVDGVLVEHAQ   233
NTDB id 1110 NGFG RS09235 WP 003689817.1      LG...EGQEEE......ESHTLY...IDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQ   215
consensus                                        **  **  **     *   *     ***************!** *!!!*!*!**!* ***!*!*!!*!  ** *
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logo



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NTDB id 1306 DR RS10060 WP 027479822.1        FPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRFKK..GSIDLDLRLSTLPTVYGEKAVMRLLQKASNIPELEQLGFSEY   625
NTDB id 1168 A1552VC RS11070 WP 000957200.1   PASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLS.RDTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQ   304
NTDB id 1293 VP RS12240 WP 005479695.1        PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLN.QDTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQ   304
NTDB id 1401 DSB67 RS12665 WP 010643259.1     PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLN.QDTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDS   304
NTDB id 1251 GCO85 RS07725 WP 011946523.1     PPASLSSRITARIKVMSNLDISERRIPQDGGFKMKIS.KSRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPV   313
NTDB id 1018 ACIAD RS01685 WP 004920473.1     PPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMS.KSKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPE   308
NTDB id 1058 ABD1 RS01615 WP 001274986.1      PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLS.KSKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEED   308
NTDB id 361649 FCL38 RS25795 WP 137316251.1   PPIAIKDKLVSRIKVLARLDISEKRVPQDGRMRLIVS.PTRTLDLRISTLPTLFGEKTVMRILDASQAQMGIDALGYEPE   312
NTDB id 1110 NGFG RS09235 WP 003689817.1      PPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPF   295
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 1251 GCO85 RS07725 WP 011946523.1     QRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLR  393
NTDB id 1018 ACIAD RS01685 WP 004920473.1     QKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLR  388
NTDB id 1058 ABD1 RS01615 WP 001274986.1      QKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLR  388
NTDB id 361649 FCL38 RS25795 WP 137316251.1   QRALLLDAIARPYGMVLVTGPTGSGKTVSLYTCLNILNKPGINISTAEDPAEINLPGVNQVNVNDRAGLTFPVALKSFLR  392
NTDB id 1110 NGFG RS09235 WP 003689817.1      QKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLR  375
consensus                                     ** ****** *!*!**!*!!!!!!!!*******!*****  *!**!*!!!*!****!**!*******!**!* !!**!!!
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logo



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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 1251 GCO85 RS07725 WP 011946523.1     QDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVR  473
NTDB id 1018 ACIAD RS01685 WP 004920473.1     QDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI  468
NTDB id 1058 ABD1 RS01615 WP 001274986.1      QDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA  468
NTDB id 361649 FCL38 RS25795 WP 137316251.1   QDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNDAPSTLTRLMNMGVAPFNIASSVILITAQRLARRLCG.CKQPL  471
NTDB id 1110 NGFG RS09235 WP 003689817.1      QDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEV  455
consensus                                     !!!!***!!!!!!**!!*!!**!**!!!*!**!!!!!*!*****!* *!!* *!!**********!!!!*!**!  !***
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logo



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NTDB id 1306 DR RS10060 WP 027479822.1        NADP.EVLRRLGISERDIR..GANLMRGTGCPRCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRS  862
NTDB id 1168 A1552VC RS11070 WP 000957200.1   RPSA.LLQSQFAFQPNEIL....YEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.ANGMQT  537
NTDB id 1293 VP RS12240 WP 005479695.1        EHTV.QL.QHLGIQTTDNI....FRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.ANGMST  536
NTDB id 1401 DSB67 RS12665 WP 010643259.1     EPNS.QL.QHIGIANTEQI....FQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.ANGMQT  536
NTDB id 1251 GCO85 RS07725 WP 011946523.1     DDFTNQGLIELGFKEADLV..NLKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLT  549
NTDB id 1018 ACIAD RS01685 WP 004920473.1     QVPER.SLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNN  545
NTDB id 1058 ABD1 RS01615 WP 001274986.1      DIPKQ.SLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.KLGFNN  545
NTDB id 361649 FCL38 RS25795 WP 137316251.1   DI.APDKLVSAGFRAEEVD.GSWKPYGPVGCERCNGSGYKGRVGIYQIMPITPAIEALILAHGNSMQIAAQAQ.AEGVKS  548
NTDB id 1110 NGFG RS09235 WP 003689817.1      ERPSASALKEVGFTDEDLA.KDWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAY.KEGMVD  533
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 1251 GCO85 RS07725 WP 011946523.1     IFQSGIEKVKEGITTIEEVNRVTVD  574
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LRRSGLKKVMQGVTSLQEINRVTSE  570
NTDB id 1058 ABD1 RS01615 WP 001274986.1      LRRSGLKKVMQGVTSLQEVNRVTSE  570
NTDB id 361649 FCL38 RS25795 WP 137316251.1   LRQSGLVKVKAGLTSLEEVLGCTNE  573
NTDB id 1110 NGFG RS09235 WP 003689817.1      LRRAGILKIMQGITSLEEVTANTND  558
consensus                                     ** *!**!***!*!** !***** *
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X non conserved

X similar

X $\geq$ 50% conserved