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logo
NTDB id 1410 SGL RS13950 WP 010873519.1      MTSSSSSKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELK   80
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..........................................................MTSYAL..LHTQRVTAQ.NGEIFTIS   23
NTDB id 1110 NGFG RS09235 WP 003689817.1     ..................MSVGLLRILVQNQVVTVEQAEHYYNES.QAGKEVLPMLFSDGV..ISPKSLAAL.IARVFSYS   59
NTDB id 1168 A1552VC RS11070 WP 000957200.1 ..................MLINLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSI..FHAQELTEQ.LSHIFGLP   60
NTDB id 1293 VP RS12240 WP 005479695.1       ..................MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGF..FTSSELAEH.LSSIFGLS   60
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..................MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGF..FQSHELTEH.LSSVFGLS   60
NTDB id 1251 GC085 RS07725 WP 011946523.1    .........MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKI..LSAEQIALT.AAQNFGVP   68
NTDB id 132724 OM33 RS13890 WP 038642563.1   ................MQLSSPLVRKLVNFGYLDQNKLVSFQNQDTSL....AEAICSASG..MTANELSNK.VANLFQSP   58
NTDB id 1058 ABD1 RS01615 WP 001274986.1     .........MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVH..LSPSLLAET.ISAEFAEP   68
NTDB id 1018 ACIAD RS01685 WP 004920473.1    .........MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFS..ISPLTIAEI.ISLEFGEP   68
consensus                                                  * * *  **** ****  *    * * *  * ** * ***     **   ***  ** *!***

logo
NTDB id 1410 SGL RS13950 WP 010873519.1      VLYGVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGFELRR  160
NTDB id 1366 NTHI RS01950 WP 011271972.1     .........PD.LWERNQQQQSLLLRY.........FALPLKEEN...NRLWLGVDSLSNLSACETIA...FITGKPVEP   78
NTDB id 1110 NGFG RS09235 WP 003689817.1     .ILDLRHYPRHRVLMGVLT.EEQMVEF.........HCVPVFRRG...DKVFFAVSDPTQMPQIQKTV...SAAGIAVEL  122
NTDB id 1168 A1552VC RS11070 WP 000957200.1 .ETDLSRYDYANLCQ.QLGLRELITRY.........DALPIAKQG...NLLLLAVSDPTLLQAEEEFR...FATGLQVEL  123
NTDB id 1293 VP RS12240 WP 005479695.1       .QPELSQYEYASLCQ.QLGLRELITRH.........NALPLHRTP...STLLLAVADPTNQQAEDDFR...FATGLQVEL  123
NTDB id 1401 DSB67 RS12665 WP 010643259.1    .CTSLNQYEYASLCQ.TLGLRDLITRH.........NALPLNRTS...STLILAVADPTNLQAEDDFR...FATGLQVEL  123
NTDB id 1251 GC085 RS07725 WP 011946523.1    .MLDINCIDVGTIPV.NLVNEKLIKRH.........AMVPLFSRG...TNLYLATDDPSKQASLKEIQ...FHTGLNTHA  131
NTDB id 132724 OM33 RS13890 WP 038642563.1   .HLSIKNIDLAFLPDGRERNEKLIKKH.........RVLPISCKG...KTLYLASADPTNFDAFEDYE...FNTGLQTEV  122
NTDB id 1058 ABD1 RS01615 WP 001274986.1     .YFDLDVYDTSQIPK.DLVDQKLILKH.........RILPLIQRG...QILYVATSNPSNIEAIDAIR...FNSKLLVEP  131
NTDB id 1018 ACIAD RS01685 WP 004920473.1    .LLDLGVFDPALFLK.DKIDEKLIQKY.........RIMPLVHRG...HVLYVATSNPTNIEAMDAIR...FNSKLKVEP  131
consensus                                       **  ** * *    *   *** **          *!*  **     ***** ***** * ****   * *******

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NTDB id 1410 SGL RS13950 WP 010873519.1      LVVTQDDFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDANQAPVINLVNKI  240
NTDB id 1366 NTHI RS01950 WP 011271972.1     ILLESSQLKELLQQLTPHQMQVEEQV.......................KF.......YQHQETHFEQEDDEPVIRLLNQI  129
NTDB id 1110 NGFG RS09235 WP 003689817.1     VIVEDDQLAGLLDWVGSRSTSLLQELGEGQ.....................EEEESHTLYIDNEEAEDGPVPRFIHKT  179
NTDB id 1168 A1552VC RS11070 WP 000957200.1 ALADHRALQAAIRRLYGRSIQGAANQGKEISQ...DELANL......VKVS...D..DELQSIEDLSQDDSPVSRFINQV  189
NTDB id 1293 VP RS12240 WP 005479695.1       VLADFRELSTAIRRLYGRSLSHEKSGLKEINQ...EELASL......VDVG...A..DEIDNIEDLSQDESPVSRYINQI  189
NTDB id 1401 DSB67 RS12665 WP 010643259.1    VLADFRELTAAIRRLYGRSLGQEKSGLKEINQ...DELAGL......VDIG...E..DEIENIEDLSQDESPVSRYINQI  189
NTDB id 1251 GC085 RS07725 WP 011946523.1    IVVETDKLSALIDNLLTAKESQGLSEYV.......EDSGDL......EGLEISADDEDQDIDTATSVTDDAPIVKFVNKI  198
NTDB id 132724 OM33 RS13890 WP 038642563.1   IVAAYDEIDAAIDSLFEKSDGIELSD.........DQLSEL......SGISADVDNKDEEDDDISNKEDDAPIIVYINKI  187
NTDB id 1058 ABD1 RS01615 WP 001274986.1     VIVEHHKLEKVLGQHFAEESSFDFND.........EEFDLD......VNLDGPT...AQEDEEEAPQGDEAPIVKYINKL  193
NTDB id 1018 ACIAD RS01685 WP 004920473.1    IIVEHDKLERLLSEHFVEETHFNFDT.........EELDLD......VEVDPHT...TDDDDEDDKLKDEAPIVKYINKL  193
consensus                                    **** * * ***  *****   *            ***  *      * *    *  *******    ***!*******
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logo
NTDB id 1410 SGL RS13950 WP 010873519.1      LAKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..GRKV   318
NTDB id 1366 NTHI RS01950 WP 011271972.1     FESALQKNASDIHLETLADQFQVRFRIDGVLQPQPLI.SKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF.SDIL   207
NTDB id 1110 NGFG RS09235 WP 003689817.1     LSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQP.PIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPV   258
NTDB id 1168 A1552VC RS11070 WP 000957200.1  LLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQP.ASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAI   267
NTDB id 1293 VP RS12240 WP 005479695.1       LLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQP.PNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAI   267
NTDB id 1401 DSB67 RS12665 WP 010643259.1    LLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQP.PSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAI   267
NTDB id 1251 GC085 RS07725 WP 011946523.1    LLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATP.PASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAI   276
NTDB id 132724 OM33 RS13890 WP 038642563.1   LMDAIKRGASDLHFEPYEHVYRIRFRVDGVLHEVANP.PIGLESRISARIKVMSQLDLAEKRKPQDGRIKLKITA.KKSI   265
NTDB id 1058 ABD1 RS01615 WP 001274986.1     LIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIANP.PLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAI   271
NTDB id 1018 ACIAD RS01685 WP 004920473.1    LIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIATP.PLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTI   271
consensus                                    ***!*****!!*!*!***  ***!*!*!!*! ** ** *  ** ** *!*!*****!* !*!*!!!!********  ***

logo
NTDB id 1410 SGL RS13950 WP 010873519.1      DFRVNTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSPEVN   398
NTDB id 1366 NTHI RS01950 WP 011271972.1     DFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAFQRSLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKH   287
NTDB id 1110 NGFG RS09235 WP 003689817.1     DFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVN   338
NTDB id 1168 A1552VC RS11070 WP 000957200.1  DMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQIN   347
NTDB id 1293 VP RS12240 WP 005479695.1       DMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEIN   347
NTDB id 1401 DSB67 RS12665 WP 010643259.1    DMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEIN   347
NTDB id 1251 GC085 RS07725 WP 011946523.1    DFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVN   356
NTDB id 132724 OM33 RS13890 WP 038642563.1   DFRVSTLPTLWGEKIVMRILDSSSAMLGIDVLGYEPEQKELYLNALSQPQGMILVTGPTGSGKTVSLYTGLNILNKPERN   345
NTDB id 1058 ABD1 RS01615 WP 001274986.1     DFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSN   351
NTDB id 1018 ACIAD RS01685 WP 004920473.1    DFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHAN   351
consensus                                    !*!****!***!!!***!******* !*** !** * ********* *!*!**!*!!!!!!!!***!!**!***!*****

logo
NTDB id 1410 SGL RS13950 WP 010873519.1      INTAEDPIEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAAGAI   478
NTDB id 1366 NTHI RS01950 WP 011271972.1     IMTAEDPIEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDIIMLGEIRDEESARIALRAAQTGHLVLSTLHTNDAISAI   367
NTDB id 1110 NGFG RS09235 WP 003689817.1     IATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATL   418
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETV   427
NTDB id 1293 VP RS12240 WP 005479695.1       ISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETI   427
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETV   427
NTDB id 1251 GC085 RS07725 WP 011946523.1    ISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETL   436
NTDB id 132724 OM33 RS13890 WP 038642563.1   ISTAEDPVEINLVGINQVQINPKAEMTFANALRAFLRQDPDIVMVGEIRDLETAEISIKAAQTGHLVLSTLHTNSAPETL   425
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETL   431
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETL   431
consensus                                    !*!!!!!*!*** !**!*********!* *!**!*!!!!!****!!*!!***!*****!**!!!*!**!!!!!*!****
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NTDB id 1410 SGL RS13950 WP 010873519.1      ARLDEMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAYH.PSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQKGNL   557
NTDB id 1366 NTHI RS01950 WP 011271972.1     SRLQQLGIQQHEIENSLLLVIAQRLVRKICPKCGGNLI.......................................N   406
NTDB id 1110 NGFG RS09235 WP 003689817.1     SRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERPSASALKEVGFTDEDLA............KD..WKLYRAVG   484
NTDB id 1168 A1552VC RS11070 WP 000957200.1  IRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAVRP.SALLQSQFAFQPNEI..................LYEANAAG   489
NTDB id 1293 VP RS12240 WP 005479695.1       IRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQEH.TVQL.QHLGIQTTDN..................IFRANPDG   488
NTDB id 1401 DSB67 RS12665 WP 010643259.1    IRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQEP.NSQL.QHIGIANTEQ..................IFQANPDG   488
NTDB id 1251 GC085 RS07725 WP 011946523.1    NRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLV..............N..LKLYKAVG   501
NTDB id 132724 OM33 RS13890 WP 038642563.1   TRLMNMGVPSYNIASSVSLIIAQRLARRLCPACKKP.EHLPEQELLKLGFTEEQIN..............S..IQLYKAEG   489
NTDB id 1058 ABD1 RS01615 WP 001274986.1     TRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIP.ADIPKQSLLEMGFTEQDLAH...........PD..FRVFQPVG   497
NTDB id 1018 ACIAD RS01685 WP 004920473.1    TRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRP.IQVPERSLLEMGFTPEDLAQ...........PE..FQIFEPVG   497
consensus                                    *!* **!* ******!*****!!!!*!**!  !* * *  * * *  ****  **                 * ** * *
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logo
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NTDB id 1410 SGL RS13950 WP 010873519.1      CQKCSGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAVEEGMITLLAYSLNLVQEGYTTLEEVERVTFTDTGLES   637
NTDB id 1366 NTHI RS01950 WP 011271972.1     SCDCHQ.GYRGRIGVYQFLHWQQ..................NGYQTDFENLRESGLEKVSQGITDEKEIERVLGKNS....   464
NTDB id 1110 NGFG RS09235 WP 003689817.1     CDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAYKEGMVDLRRAGILKIMQGITSLEEVTANTND......   558
NTDB id 1168 A1552VC RS11070 WP 000957200.1  CNECTG.GYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQESGLEKLREGITSFAELQRVLYF......   562
NTDB id 1293 VP RS12240 WP 005479695.1       CNECTH.GYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAIANGMSTLQMSGIEKLKQGITSFSELQRVLYF......   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1    CNECTH.GYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAIANGMQTLQMSGIEKLKQGITSFRELQRVLYF......   561
NTDB id 1251 GC085 RS07725 WP 011946523.1    CEQCTS.GYRGRVGLREVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQSGIEKVKEGITTIEEVNRVTVD......   574
NTDB id 132724 OM33 RS13890 WP 038642563.1   CDKCTE.GYKGRVGVYEVMPITPKIAEVIMQGGNSLEIATIAEQEGINNLRKSGLKKAASGVTSITEINRVTSY......   562
NTDB id 1058 ABD1 RS01615 WP 001274986.1     CLECRE.GYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASEKLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE......   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1    CHDCRE.GYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAETLGFNNLRRSGLKKVMQGVTSLQEINRVTSE......   570
consensus                                    * *!*  !!*!!*!********* ** **** *** ***  **   ****** ****** *!*!** !*****
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logo
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NTDB id 1410 SGL RS13950 WP 010873519.1      EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS   672
NTDB id 1366 NTHI RS01950 WP 011271972.1     ....................................   464
NTDB id 1110 NGFG RS09235 WP 003689817.1     ....................................   558
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ....................................   562
NTDB id 1293 VP RS12240 WP 005479695.1       ....................................   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ....................................   561
NTDB id 1251 GC085 RS07725 WP 011946523.1    ....................................   574
NTDB id 132724 OM33 RS13890 WP 038642563.1   ....................................   562
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ....................................   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ....................................   570
consensus
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X non conserved

X similar

X $\geq$ 50% conserved