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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1     ..................................................MS.....QYTIC.......EQQTERIFDISPSRW    22
NTDB id 43573 PMU RS06050 WP 016504529.1      ...................................................MFHENPLCTV.......SAMTGEVFEIQQALW    25
NTDB id 1366 NTHI RS01950 WP 011271972.1      ..................................................MTSYALLHTQRV.......TAQNGEIFTISPDLW    27
NTDB id 1355 HI 0298 AAC21962.1               ..................................................MTSYALLHTQRV.......TAKNGEVFTISPDLW    27
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ........MLINLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDYANL    72
NTDB id 1293 VP RS12240 WP 005479695.1        ........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEYASL    72
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEYASL    72
NTDB id 1251 GC085 RS07725 WP 011946523.1     MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDVGTI    80
NTDB id 1058 ABD1 RS01615 WP 001274986.1      MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDTSQI    80
NTDB id 1018 ACIAD RS01685 WP 004920473.1     MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDPALF    80
consensus                                                *     *     *         *          *   ***   *    * * **  **    **  ** *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1     QKNCEEKQLLLRYLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVIASDELKYLLNALSPEQQPIYEESE..   100
NTDB id 43573 PMU RS06050 WP 016504529.1      QKNQQQQRFLLRYFALPLQEDEKQLWLGVDSLANLSACDAFSFLTNKHIEPVLLSTNELKRALQQLSPPKLQVEENIP..   103
NTDB id 1366 NTHI RS01950 WP 011271972.1      ERNQQQQSLLLRYFALPLKEENNRLWLGVDSLSNLSACETIAFITGKPVEPILLESSQLKELLQQLTPHQMQVEEQVK..   105
NTDB id 1355 HI 0298 AAC21962.1               ERNQQQQSLLLRYFALPLKEENNRLWLGVDSLSNLSACETIAFITGKPVEPILLESSQLKELLQQLTPNQMQVEEQVK..   105
NTDB id 1168 A1552VC RS11070 WP 000957200.1   CQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATGLQVELALADHRALQAAIRRLYGRSIQGAANQGK.   151
NTDB id 1293 VP RS12240 WP 005479695.1        CQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHEKSGLK.   151
NTDB id 1401 DSB67 RS12665 WP 010643259.1     CQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAAIRRLYGRSLGQEKSGLK.   151
NTDB id 1251 GC085 RS07725 WP 011946523.1     PVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE   160
NTDB id 1058 ABD1 RS01615 WP 001274986.1      PKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDFNDE..   158
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFNFDTE..   158
consensus                                      ***    ***** **!*      !********** * *  *! ************  !  ** ***   *  * *

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1384 A4U84 RS08525 WP 010787006.1     ...............LAFVE.QEQEQLNLNDPIIQLLDNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLYKSLSIQL   165
NTDB id 43573 PMU RS06050 WP 016504529.1      ...............TVYQVAQLDSDSATDEPLIQLLDQVFERALQLQASDIHFEPQQHSLQVRFRIDGVLQVQPSFSGIL   169
NTDB id 1366 NTHI RS01950 WP 011271972.1      ................FYQHQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPQPLISKIF   170
NTDB id 1355 HI 0298 AAC21962.1               ................FYQHQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPQPLISKIF   170
NTDB id 1168 A1552VC RS11070 WP 000957200.1   .EISQDELANLVKVSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPASHL   230
NTDB id 1293 VP RS12240 WP 005479695.1        .EINQEELASLVDVGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQPPNHL   230
NTDB id 1401 DSB67 RS12665 WP 010643259.1     .EINQDELAGLVDIGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQPPSHL   230
NTDB id 1251 GC085 RS07725 WP 011946523.1     DSGDLEGLEISAD.DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPPASL   239
NTDB id 1058 ABD1 RS01615 WP 001274986.1      .EFD...LDVNLDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIANPPLQL   234
NTDB id 1018 ACIAD RS01685 WP 004920473.1     .ELD...LDVEVDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIATPPLQL   234
consensus                                      *     *   **    *  * **   ** !**************!!!*!*!***  ***!*!*!!*!     **  *
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logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1     ASRLISRIKLLAKLDISELRQPQDGQFSFTTALADTLDFRVSSLPTIYGEKLVLRLQKNKPTSFDFLQLGFNPQQQTTLL   245
NTDB id 43573 PMU RS06050 WP 016504529.1      ANRLISRLKLLAKLDISETRLPQDGCFQFKTTFSDTLDFRLSTLPTHLGEKAVLRLQRNKPIHLSFAELGMTADQQHRFQ   249
NTDB id 1366 NTHI RS01950 WP 011271972.1      ANRIISRLKLLAKLDISENRLPQDGRFQFKTTFSDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAFQ   250
NTDB id 1355 HI 0298 AAC21962.1               ANRIISRLKLLAKLDISENRLPQDGRFQFKTTFSDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFSELGMTENQQQAFQ   250
NTDB id 1168 A1552VC RS11070 WP 000957200.1   SRRLAARIKILSKLDIAERRLPQDGRIKLRLSRDTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYL   310
NTDB id 1293 VP RS12240 WP 005479695.1        SRRLSARIKILSKLDIAERRLPQDGRIKLKLNQDTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYL   310
NTDB id 1401 DSB67 RS12665 WP 010643259.1     SRRLSARIKILSKLDIAERRLPQDGRIKLKLNQDTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYL   310
NTDB id 1251 GC085 RS07725 WP 011946523.1     SSRITARIKVMSNLDISERRIPQDGGFKMKISKSRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFL   319
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ANRLASRLKVMSQMDISEKRVPQDGRIKLKLSKSKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFM   314
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ATRLASRLKVMSQMDISEKRVPQDGRIKLKMSKSKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFM   314
consensus                                     * !* *!*!****!!*!*!*!!!!* ***** * **!*!****!!**!!!*!*!***   * * ** !!****!*****

logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1     NALKQPQGLILVTGPTGSGKSITLYSALNYLNQMDKHILTAEDPVEIEIDGLIQTQVNRSIQLDFSQLLRTFLRQDPDII   325
NTDB id 43573 PMU RS06050 WP 016504529.1      HALSQPQGLILVTGPTGSGKSISLYSALAWLNSIEKHILTAEDPIEIVLTGIIQTQVNTQIGLDFKRLLRTFLRQDPDII   329
NTDB id 1366 NTHI RS01950 WP 011271972.1      RSLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPIEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDII   330
NTDB id 1355 HI 0298 AAC21962.1               RVLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPIEIELDGIIQSQINPQIGLDFNRLLRTFLRQDPDII   330
NTDB id 1168 A1552VC RS11070 WP 000957200.1   NALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVV   390
NTDB id 1293 VP RS12240 WP 005479695.1        EALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVV   390
NTDB id 1401 DSB67 RS12665 WP 010643259.1     DALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVV   390
NTDB id 1251 GC085 RS07725 WP 011946523.1     KAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDII   399
NTDB id 1058 ABD1 RS01615 WP 001274986.1      EALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDII   394
NTDB id 1018 ACIAD RS01685 WP 004920473.1     EALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDII   394
consensus                                      ** *!!!**!*!!!!!!!!***!!**!**!!* * *!*!!!!!*!! **!**!********* !* *!**!!!!!!!**

logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1     MLGEIRDEESAKMALRASQTGHLVLSTLHTNDALSAVERLLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGVG......   399
NTDB id 43573 PMU RS06050 WP 016504529.1      MLGEIRDEESALIALRAAQTGHLVLSTLHTNDAPSALTRLQQLGVPLHEIEQSLLLVVAQRLLRRRCD.CRVET......   402
NTDB id 1366 NTHI RS01950 WP 011271972.1      MLGEIRDEESARIALRAAQTGHLVLSTLHTNDAISAISRLQQLGIQQHEIENSLLLVIAQRLVRKICPKCGGNL......   404
NTDB id 1355 HI 0298 AAC21962.1               MLGEIRDEESAMIALRAAQTGHLVLSTLHTNDAISAISRLQQLGIQQYEIKNSLLLVIAQRLVRKLCSKCGGNL......   404
NTDB id 1168 A1552VC RS11070 WP 000957200.1   MVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAVRP.SAL   469
NTDB id 1293 VP RS12240 WP 005479695.1        MVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQEH.TVQ   469
NTDB id 1401 DSB67 RS12665 WP 010643259.1     MVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQEP.NSQ   469
NTDB id 1251 GC085 RS07725 WP 011946523.1     MVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQ   479
NTDB id 1058 ABD1 RS01615 WP 001274986.1      MVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQ   473
NTDB id 1018 ACIAD RS01685 WP 004920473.1     MVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPER   473
consensus                                     !*!!!!!***!**!**!*!!!!*!*!!!!!!*!*****!! **!* ******!* !**!!!!*!**!   !*
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logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1      .......................CDECYQGYRGRIGVYQCLSRTAKK............FDKQTAYLDFSSLRESAKQK   443
NTDB id 43573 PMU RS06050 WP 016504529.1       .......................QSACRCYQGYKGRIGVYQFLQKDKT................GCFVTDFSSLRESAKEK   444
NTDB id 1366 NTHI RS01950 WP 011271972.1       .......................INSCDCHQGYRGRIGVYQFLHWQQN................G.YQTDFENLRESGLEK   445
NTDB id 1355 HI 0298 AAC21962.1                .......................ANSCDCHQGYRGRIGVYQFLHWQQN................D.YQTDFKNLRASGLEK   445
NTDB id 1168 A1552VC RS11070 WP 000957200.1   LQSQFAFQPNEI....LYEANAAGCNECTGGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQESGLEK   545
NTDB id 1293 VP RS12240 WP 005479695.1        L.QHLGIQTTDN....IFRANPDGCNECTHGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAIANGMSTLQMSGIEK   544
NTDB id 1401 DSB67 RS12665 WP 010643259.1     L.QHIGIANTEQ....IFQANPDGCNECTHGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAIANGMQTLQMSGIEK   544
NTDB id 1251 GCO85 RS07725 WP 011946523.1     GLIELGFKEADLV..NLKLYKAVGCEQCTSGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQSGIEK   557
NTDB id 1058 ABD1 RS01615 WP 001274986.1      SLLEMGFTEQDLAHPDFRVFQPVGCLECREGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASEKLGFNNLRRSGLKK   553
NTDB id 1018 ACIAD RS01685 WP 004920473.1     SLLEMGFTPEDLAQPEFQIFEPVGCHDCREGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAETLGFNNLRRSGLKK   553
consensus                                         **    *            ** *!  !!*!!*!***** *   *   **  *   ** * *   ** *** !***!

logo

NTDB id 1384 A4U84 RS08525 WP 010787006.1      IEQQLTNETEVDRVLGYE.   461
NTDB id 43573 PMU RS06050 WP 016504529.1       VRLGMTDDNEVQRVLGE..   461
NTDB id 1366 NTHI RS01950 WP 011271972.1       VSQGITDEKEIERVLGKNS   464
NTDB id 1355 HI 0298 AAC21962.1                VSQGITDEKEIERVLGKNL   464
NTDB id 1168 A1552VC RS11070 WP 000957200.1   LREGITSFAELQRVLYF..   562
NTDB id 1293 VP RS12240 WP 005479695.1        LKQGITSFSELQRVLYF..   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1     LKQGITSFRELQRVLYF..   561
NTDB id 1251 GCO85 RS07725 WP 011946523.1     VKEGITTIEEVNRVTVD..   574
NTDB id 1058 ABD1 RS01615 WP 001274986.1      VMQGVTSLQEVNRVTSE..   570
NTDB id 1018 ACIAD RS01685 WP 004920473.1     VMQGVTSLQEINRVTSE..   570
consensus                                     *****!*   !**!!*
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X non conserved

X similar

X ≥ 50% conserved