logo

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NTDB id 1028 TT RS08215 WP 011173991.1           MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK  80
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NTDB id 1401 DSB67 RS12665 WP 010643259.1        ..........................................................  0
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NTDB id 1293 VP RS12240 WP 005479695.1           ..........................................................  0
NTDB id 1110 NGFG RS09235 WP 003689817.1         ..........................................................  0
NTDB id 1251 GCO85 RS07725 WP 011946523.1        ..........................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1         ..........................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1        ..........................................................  0
consensus
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NTDB id 1306 DR RS10060 WP 027479822.1           RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA  157
NTDB id 1028 TT RS08215 WP 011173991.1           ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P  158
NTDB id 1168 A1552VC RS11070 WP 000957200.1      ..........................................................  0
NTDB id 1401 DSB67 RS12665 WP 010643259.1        ..........................................................  0
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NTDB id 1293 VP RS12240 WP 005479695.1           ..........................................................  0
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NTDB id 1251 GCO85 RS07725 WP 011946523.1        ..........................................................  0
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NTDB id 1018 ACIAD RS01685 WP 004920473.1        ..........................................................  0
consensus
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NTDB id 1028 TT RS08215 WP 011173991.1           SGEGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA  237
NTDB id 1168 A1552VC RS11070 WP 000957200.1      ..........................................................  0
NTDB id 1401 DSB67 RS12665 WP 010643259.1        ..........................................................  0
NTDB id 145642 FORC14 RS13410 WP 063517849.1     ..........................................................  0
NTDB id 1293 VP RS12240 WP 005479695.1           ..........................................................  0
NTDB id 1110 NGFG RS09235 WP 003689817.1         ..........................................................  0
NTDB id 1251 GCO85 RS07725 WP 011946523.1        ..........................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1         ..........................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1        ..........................................................  0
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1          ..........................................................MTS     3
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NTDB id 1028 TT RS08215 WP 011173991.1           LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWEELFRRAYPQKNRLGEVLVQEGKLSR   317
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NTDB id 1293 VP RS12240 WP 005479695.1           ..........................................................................     0
NTDB id 1110 NGFG RS09235 WP 003689817.1         ..........................................................................     0
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NTDB id 1018 ACIAD RS01685 WP 004920473.1        ..........................................................................     0
consensus
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NTDB id 1306 DR RS10060 WP 027479822.1           DQLREALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQ..SGKLSPEMLARS.......LAAQL   388
NTDB id 1028 TT RS08215 WP 011173991.1           EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQ..SGKLRPEALAQA.......VATQL   388
NTDB id 1168 A1552VC RS11070 WP 000957200.1      ..............MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLE..LSIFHAQELTEQ.......LSHIF    57
NTDB id 1401 DSB67 RS12665 WP 010643259.1        ..............MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.......LSSVF    57
NTDB id 145642 FORC14 RS13410 WP 063517849.1     ..............MLTNLSTVLRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSELAEH.......LSSIF    57
NTDB id 1293 VP RS12240 WP 005479695.1           ..............MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSELAEH.......LSSIF    57
NTDB id 1110 NGFG RS09235 WP 003689817.1         ..............MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFS..DGVISPKSLAAL.......IARVF    56
NTDB id 1251 GCO85 RS07725 WP 011946523.1        ......MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.......AAQNF    65
NTDB id 1058 ABD1 RS01615 WP 001274986.1         ......MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.......ISAEF    65
NTDB id 1018 ACIAD RS01685 WP 004920473.1        ......MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLID..NFSISPLTIAEI.......ISLEF    65
consensus                                                * *  ***  **** * *  * * *  * ** * **    * ***  ***        ** **
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NTDB id 1306 DR RS10060 WP 027479822.1           GYEFLDPIQNPPD.....PKVALMIPEATARRYVVVPVRLQ...GNSLVVAMKDPRNVFALDDLKLITG.....KEILPA   455
NTDB id 1028 TT RS08215 WP 011173991.1           GYPYVDPEEDPPD.....PGAPLLLPEDLCRRYGVFPHRLE...GNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPA   460
NTDB id 1168 A1552VC RS11070 WP 000957200.1      GLPETDLSRYDYA.....NLCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEFRFATG.....LQVELA   124
NTDB id 1401 DSB67 RS12665 WP 010643259.1        GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRT...SSTLILAVADPTNLQAEDDFRFATG.....LQVELV   124
NTDB id 145642 FORC14 RS13410 WP 063517849.1     GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFATG.....LQVELV   124
NTDB id 1293 VP RS12240 WP 005479695.1           GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFATG.....LQVELV   124
NTDB id 1110 NGFG RS09235 WP 003689817.1         SYSILDLRHYPRH.....RVLMGVLTEEQMVEFHCVPVFRR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV   123
NTDB id 1251 GCO85 RS07725 WP 011946523.1        GVPMLDINCIDVG.....TIPVNLVNEKLIKRHAMVPLFSR...GTNLYLATDDPSKQASLKEIQFHTG.....LNTHAI   132
NTDB id 1058 ABD1 RS01615 WP 001274986.1         AEPYFDLDVYDTS.....QIPKDLVDQKLILKHRILPLIQR...GQILYVATSNPSNIEAIDAIRFNSK.....LLVEPV   132
NTDB id 1018 ACIAD RS01685 WP 004920473.1        GEPLLDLGVFDPA.....LFLKDKIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPI   132
consensus                                        **  ***  ** *      *   **  *** **  *!**      *  *****  *!*** **********     * **  *
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NTDB id 1028 TT RS08215 WP 011173991.1    VATEAAITKLIERFYGKAELSEIAKEFAK.............KQAEEEV..PSPLELDESAAQKFVKQVI  515
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LADHRALQAAIRRLYGRSIQGAANQGK..EI.SQDELAN..........LVKVSDDELQSIEDLSQDDSPVSRFINQVL  190
NTDB id 1401 DSB67 RS12665 WP 010643259.1 LADFRELTAAIRRLYGRSLGQEKSGLK..EI.NQDELAG..........LVDIGEDEIENIEDLSQDESPVSRYINQIL  190
NTDB id 145642 FORC14 RS13410 WP 063517849.1 LADFRELSAAIRRLYGRSLSHKKSGLK..EI.NQEELAN..........LVDVGADEIDNIEDLSQDESPVSRYINQIL  190
NTDB id 1293 VP RS12240 WP 005479695.1    LADFRELSTAIRRLYGRSLSHEKSGLK..EI.NQEELAS..........LVDVGADEIDNIEDLSQDESPVSRYINQIL  190
NTDB id 1110 NGFG RS09235 WP 003689817.1  IVEDDQLAGLLDWVGSRSTSL..LQELGE..........GQEEEESHTLYIDNEEAEDGPVPRFIHKTL  180
NTDB id 1251 GCO85 RS07725 WP 011946523.1 VVETDKLSALIDNLLTAKESQGLSEYVEDSG.DLEGLEI..........SAD.DEDQDIDTATSVTDDAPIVKFVNKIL  199
NTDB id 1058 ABD1 RS01615 WP 001274986.1  IVEHHKLEKVLGQHFAEESSFDFNDE...EF.D...LDV..........NLDGPTAQEDEEEAPQGDEAPIVKYINKLL  194
NTDB id 1018 ACIAD RS01685 WP 004920473.1 IVEHDKLERLLSEHFVEETHFNFDTE...EL.D...LDV..........EVDPHTTDDDDEDDKLKDEAPIVKYINKLL  194
consensus                                 ***   *  ** *****       *   *   * **            **  ***   **    *****  ****  **
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NTDB id 1401 DSB67 RS12665 WP 010643259.1 LDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAID  268
NTDB id 145642 FORC14 RS13410 WP 063517849.1 LDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAID  268
NTDB id 1293 VP RS12240 WP 005479695.1    LDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAID  268
NTDB id 1110 NGFG RS09235 WP 003689817.1  SDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQ.PPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVD  259
NTDB id 1251 GCO85 RS07725 WP 011946523.1 LDAIRQGASDIHFEPYEREYRIRYRQDGILHEVAT.PPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAID  277
NTDB id 1058 ABD1 RS01615 WP 001274986.1  IDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIAN.PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAID  272
NTDB id 1018 ACIAD RS01685 WP 004920473.1 IDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIAT.PPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTID  272
consensus                                 **!** **!!*!*!***  ***!*! !!*! *  * **  ** ** ***!*** **!*!*!*!!!!****** *   **!
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logo

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NTDB id 1028 TT RS08215 WP 011173991.1    LRLSTLPTVYGEKAVMRLLKKASDIPEIEDLGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATPDKNT  672
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NTDB id 145642 FORC14 RS13410 WP 063517849.1 MRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINI  348
NTDB id 1293 VP RS12240 WP 005479695.1    MRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINI  348
NTDB id 1110 NGFG RS09235 WP 003689817.1  FRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNI  339
NTDB id 1251 GCO85 RS07725 WP 011946523.1 FRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNPLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNI  357
NTDB id 1058 ABD1 RS01615 WP 001274986.1  FRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNI  352
NTDB id 1018 ACIAD RS01685 WP 004920473.1 FRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANI  352
consensus                                 *!****!***!!!***!*!***** **** !** * ** ****** *!*!**!*!!!!!!!!*******!*********!*
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logo

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NTDB id 1028 TT RS08215 WP 011173991.1      QTIEDPVEYEIPGINQTQVNPQAGLTFARALRAFLRQDPDIIMVGEIRDSETAKIATEAALTGHLVIATLHTNDAAQAIT  752
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NTDB id 1401 DSB67 RS12665 WP 010643259.1   STAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVI  428
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NTDB id 1018 ACIAD RS01685 WP 004920473.1   STAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLT  432
consensus                                   *!*!!!*!****!**!*******!**!*  *!**!*!!!!!***!!!*!!**!!**!**!**!!!*!**!!!!!*!****
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NTDB id 1028 TT RS08215 WP 011173991.1      RLDEMGVEPFNISAALIGVLSQRLVRRVCEHCKVEV.KPDPETLRRLGLSEAEIQ..G.............ARLYKGMGC  816
NTDB id 1168 A1552VC RS11070 WP 000957200.1 RLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEIL.................YEANAAGC  490
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NTDB id 1293 VP RS12240 WP 005479695.1      RLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EHTVQLQH.LGIQTTDNI.................FRANPDGC  489
NTDB id 1110 NGFG RS09235 WP 003689817.1    RMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERPSASALKEVGFTDEDLAK.D.............WKLYRAVGC  485
NTDB id 1251 GCO85 RS07725 WP 011946523.1   RLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLV..N.............LKLYKAVGC  502
NTDB id 1058 ABD1 RS01615 WP 001274986.1    RLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLAHPD.............FRVFQPVGC  498
NTDB id 1018 ACIAD RS01685 WP 004920473.1   RLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLAQPE.............FQIFEPVGC  498
consensus                                   !* *!!***!**********!!!*!**!  !* *   *  *  ****  **                *  * *!
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logo

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NTDB id 1028 TT RS08215 WP 011173991.1      ERCGGTGYKGRYAIHELLVVDDEIRHAIVAGKSATEIKEIAR.RKGMKTLREDGLYKALQGITTLEEVLARTIE......  889
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NTDB id 1018 ACIAD RS01685 WP 004920473.1   HDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNNLRRSGLKKVMQGVTSLQEINRVTSE......  570
consensus                                    *!*  !!*!!*****!**** ***   ** ***  **  **    !* **  ****** *!*!** !*****
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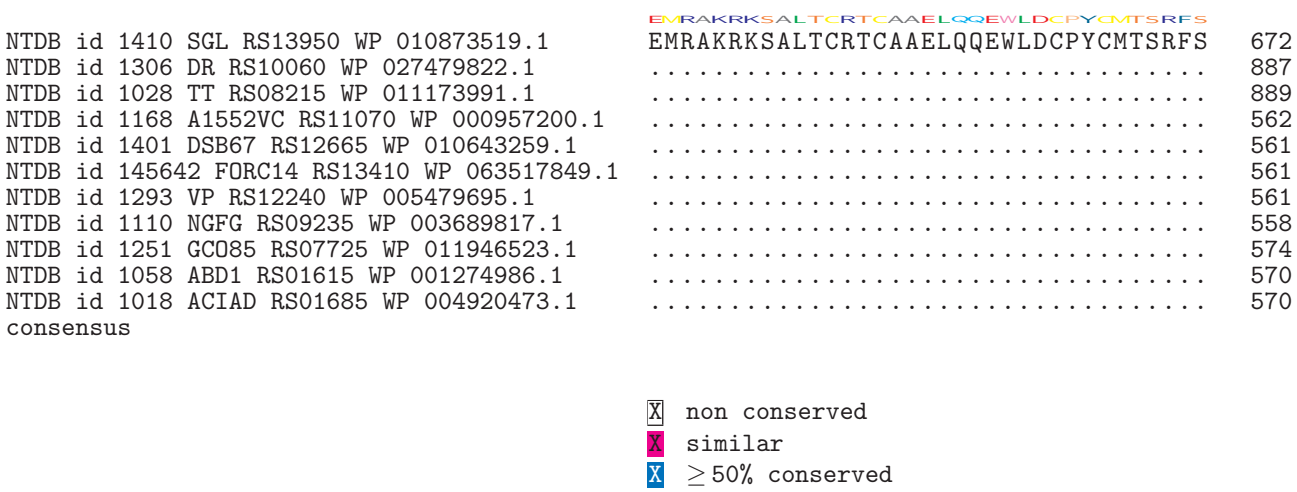
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NTDB id 1028 TT RS08215 WP 011173991.1 889
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NTDB id 1058 ABD1 RS01615 WP 001274986.1 570
NTDB id 1018 ACIAD RS01685 WP 004920473.1 570
consensus
X non conserved
X similar
X ≥ 50% conserved