logo



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NTDB id 1028 TT RS08215 WP 011173991.1       MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK   80
NTDB id 1306 DR RS10060 WP 027479822.1       .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL   79
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ..........................................................................................   0
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..........................................................................................   0
NTDB id 1293 VP RS12240 WP 005479695.1       ..........................................................................................   0
NTDB id 1110 NGFG RS09235 WP 003689817.1     ..........................................................................................   0
NTDB id 200676 BJK08 RS07390 WP 027227022.1  ..........................................................................................   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 1028 TT RS08215 WP 011173991.1       ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P   158
NTDB id 1306 DR RS10060 WP 027479822.1       RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA   157
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ..........................................................................................   0
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..........................................................................................   0
NTDB id 1293 VP RS12240 WP 005479695.1       ..........................................................................................   0
NTDB id 1110 NGFG RS09235 WP 003689817.1     ..........................................................................................   0
NTDB id 200676 BJK08 RS07390 WP 027227022.1  ..........................................................................................   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 1028 TT RS08215 WP 011173991.1       SGEGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA   237
NTDB id 1306 DR RS10060 WP 027479822.1       SDAGRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL   237
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ..........................................................................................   0
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..........................................................................................   0
NTDB id 1293 VP RS12240 WP 005479695.1       ..........................................................................................   0
NTDB id 1110 NGFG RS09235 WP 003689817.1     ..........................................................................................   0
NTDB id 200676 BJK08 RS07390 WP 027227022.1  ..........................................................................................   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 1028 TT RS08215 WP 011173991.1        LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWEELFRRAYPQKNRLGEVLVQEGKLSR   317
NTDB id 1306 DR RS10060 WP 027479822.1        GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSR   317
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ..........................................................................................     0
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ..........................................................................................     0
NTDB id 1293 VP RS12240 WP 005479695.1        ..........................................................................................     0
NTDB id 1110 NGFG RS09235 WP 003689817.1      ..........................................................................................     0
NTDB id 200676 BJK08 RS07390 WP 027227022.1   ..........................................................................................     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 1028 TT RS08215 WP 011173991.1        EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGRLEDTLVQSGKLRPEALAQAVATQLGYPYVDPEE   397
NTDB id 1306 DR RS10060 WP 027479822.1        DQLREALQVQARAGKVKPLGEVITELGFASPDEVDSALQKQNVGGRLEDTLVQSGKLSPEMLARSLAAQLGYEFLDPIQ   397
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ..............MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSR    66
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ..............MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQ    66
NTDB id 1293 VP RS12240 WP 005479695.1        ..............MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQ    66
NTDB id 1110 NGFG RS09235 WP 003689817.1      ..............MSVGLLRILVQNQVVTVEQAEHYYN.ESQAGKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRH    65
NTDB id 200676 BJK08 RS07390 WP 027227022.1   ......MALATDEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLVQYLVKNKILSAEQIALTAAQNFGVPMMDINC    74
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ......MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINC    74
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ......MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDV    74
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ......MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGV    74
consensus                                       *      *****  ***  **** ** * **   ** * **** **  * ***  *** *   **** ***
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NTDB id 1028 TT RS08215 WP 011173991.1        DPPDPGAPLLLPEDLCRRYGVFPHRLEGNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPAVATEAAITKLIERFYGK   477
NTDB id 1306 DR RS10060 WP 027479822.1        NPPDPKVALMIPEATARRYVVPVRLQGNSLVVAMKDPRNVFALDDLKLITG.....KEILPAVMAEKDIIRLIERYFGE   472
NTDB id 1168 A1552VC RS11070 WP 000957200.1   YDYANLCQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALADHRALQAAIRRLYGR   141
NTDB id 1401 DSB67 RS12665 WP 010643259.1     YEYASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATG.....LQVELVLADFRELTAAIRRLYGR   141
NTDB id 1293 VP RS12240 WP 005479695.1        YEYASLCQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATG.....LQVELVLADFRELSTAIRRLYGR   141
NTDB id 1110 NGFG RS09235 WP 003689817.1      YPRHRVLMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELVIVEDDQLAGLLDWVGSR   140
NTDB id 200676 BJK08 RS07390 WP 027227022.1   IEVDSIPASLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVETDKLSSLIDNLLTA   149
NTDB id 1251 GCO85 RS07725 WP 011946523.1     IDVGTIPVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVETDKLSALIDNLLTA   149
NTDB id 1058 ABD1 RS01615 WP 001274986.1      YDTSQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVEHHKLEKVLGQHFAE   149
NTDB id 1018 ACIAD RS01685 WP 004920473.1     FDPALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPIIVEHDKLERLLSEHFVE   149
consensus                                     ** * *   ** **** ** **!*  **   * *** *!*** **********      **** ****   ** ********
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NTDB id 1028 TT RS08215 WP 011173991.1      AELSEIAKEFAKK..........QAEEEV..PSPLELDESAAQKFVKQVIREAFLQDASDIHIEPRQNDVQVRLRIDGA  544
NTDB id 1306 DR RS10060 WP 027479822.1      KGFEKLNKELAER..........NKTQQSQEADLSVADESAIVQVVDSIIREAALQDASDIHIETTEDAVKVRYRIDGA  541
NTDB id 1168 A1552VC RS11070 WP 000957200.1 SIQGAANQGKEISQDELANLVK..VSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGI  219
NTDB id 1401 DSB67 RS12665 WP 010643259.1   SLGQEKSGLKEINQDELAGLVD..IGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGI  219
NTDB id 1293 VP RS12240 WP 005479695.1      SLSHEKSGLKEINQEELASLVD..VGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGI  219
NTDB id 1110 NGFG RS09235 WP 003689817.1    STSL..LQELGE......GQE...EEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQ  209
NTDB id 200676 BJK08 RS07390 WP 027227022.1 KESQQGLSDYVEDSG.DLEGLEISTEDEDQDVDTATSATDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGI  228
NTDB id 1251 GCO85 RS07725 WP 011946523.1   KESQQGLSEYVEDSG.DLEGLEISADDEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGI  228
NTDB id 1058 ABD1 RS01615 WP 001274986.1    ESSFDFNDE...EF.DLD.VNLD.GPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGV  223
NTDB id 1018 ACIAD RS01685 WP 004920473.1   ETHFNFDTE...EL.DLD.VEVD.PHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGV  223
consensus                                     *     * *    **  *       ***  * *    ****************!** *!!!*!*!****  ***!*!*!!*
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NTDB id 1028 TT RS08215 WP 011173991.1      LRPYSTLPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRY..REGAIDVDLRLSTLPTVYGEKAVMRLLKKASDIPEIED  622
NTDB id 1306 DR RS10060 WP 027479822.1      LREQNSFPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRF..KKGSIDLDLRLSTLPTVYGEKAVMRLLQKASNIPELEQ  619
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LVETQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDK  298
NTDB id 1401 DSB67 RS12665 WP 010643259.1   LIEIQQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINK  298
NTDB id 1293 VP RS12240 WP 005479695.1      LIETQQPPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDK  298
NTDB id 1110 NGFG RS09235 WP 003689817.1    LREVVQPPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQ  289
NTDB id 200676 BJK08 RS07390 WP 027227022.1 LHEVATPPASLASRITARIKVMSNLDISERRIPQDGGFKMKISK.ARAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEA  307
NTDB id 1251 GCO85 RS07725 WP 011946523.1   LHEVATPPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEA  307
NTDB id 1058 ABD1 RS01615 WP 001274986.1    LRQIANPPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDA  302
NTDB id 1018 ACIAD RS01685 WP 004920473.1   LRLIATPPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDA  302
consensus                                   !***  **  *  ** ***!*** **! !*!*!!!!******** ***!*!****!!**!!!*!*!*!***** ****
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NTDB id 1028 TT RS08215 WP 011173991.1      LGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATPDKNTQTIEDPVEYEIPGINQTQVNPQAGLTFARA  702
NTDB id 1306 DR RS10060 WP 027479822.1      LGFSEYNYARYTEIIERPNGIFLVTGPTGSGKSFTCFSTLKRIAKPEKNTTTIEDPIEYEVPGIVQSQVNNSTGMTFARA  699
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEA  378
NTDB id 1401 DSB67 RS12665 WP 010643259.1   LGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEA  378
NTDB id 1293 VP RS12240 WP 005479695.1      LGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEA  378
NTDB id 1110 NGFG RS09235 WP 003689817.1    LGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAA  369
NTDB id 200676 BJK08 RS07390 WP 027227022.1 LGFNPVQRSNFIKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGA  387
NTDB id 1251 GCO85 RS07725 WP 011946523.1   LGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGA  387
NTDB id 1058 ABD1 RS01615 WP 001274986.1    LGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAA  382
NTDB id 1018 ACIAD RS01685 WP 004920473.1   LGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAA  382
consensus                                   !!* * ** ****** *!*!**!*!!!!!!!!*******!***** **!**!*!!!*!****!**!*******!**!**!
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logo



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NTDB id 1028 TT RS08215 WP 011173991.1      LRAFLRQDPDIIMVGEIRDSETAKIATEAALTGHLVIATLHTNDAAQAITRLDEMGVEPFNISAALIGVLSQRLVRRVCE  782
NTDB id 1306 DR RS10060 WP 027479822.1      LRAFLRQDPDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAPGAVTRLEEMGIENFNISAAVMGVLAQRLVRRVCS  779
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLIIAQRLARRLCK  458
NTDB id 1401 DSB67 RS12665 WP 010643259.1   LRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCP  458
NTDB id 1293 VP RS12240 WP 005479695.1      LRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCP  458
NTDB id 1110 NGFG RS09235 WP 003689817.1    LKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCS  449
NTDB id 200676 BJK08 RS07390 WP 027227022.1 LRSFLRQDPDIIMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCN  467
NTDB id 1251 GCO85 RS07725 WP 011946523.1   LRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCN  467
NTDB id 1058 ABD1 RS01615 WP 001274986.1    LKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCS  462
NTDB id 1018 ACIAD RS01685 WP 004920473.1   LRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCS  462
consensus                                   !**!!!!!!!***!!!!!!**!!*!!**!**!!!*!**!!!!!*!*****!* *!!***!!**********!!!*!**!
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NTDB id 1028 TT RS08215 WP 011173991.1      HCKVEV.KPDPETLRRLGLSEAEIQ..GARLYKGMGCERCGGTGYKGRYAIHELLVVDDEIRHAIVAGKSATEIKEIAR.  858
NTDB id 1306 DR RS10060 WP 027479822.1      ECKQPT.NADPEVLRRLGISERDIR..GANLMRGTGCPRCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALG  856
NTDB id 1168 A1552VC RS11070 WP 000957200.1 HCKIAV.RPSALLQSQFAFQPNEIL....YEANAAGCNECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.  531
NTDB id 1401 DSB67 RS12665 WP 010643259.1   YCRQPQ.EPNSQLQH.IGIANTEQI....FQANPDGCNECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.  530
NTDB id 1293 VP RS12240 WP 005479695.1      YCKQPQ.EHTVQLQH.LGIQTTDNI....FRANPDGCNECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.  530
NTDB id 1110 NGFG RS09235 WP 003689817.1    SCKQEVERPSASALKEVGFTDEDLAK.DWKLYRAVGCDRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAY.  527
NTDB id 200676 BJK08 RS07390 WP 027227022.1 QCKAVRDDFTNQGLIELGFKEADLV..NLKLYKAVGCDQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.  543
NTDB id 1251 GCO85 RS07725 WP 011946523.1   QCKAVRDDFTNQGLIELGFKEADLV..NLKLYKAVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.  543
NTDB id 1058 ABD1 RS01615 WP 001274986.1    QCKIPA.DIPKQSLLEMGFTEQDLAHPDFRVFQPVGCLECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.  539
NTDB id 1018 ACIAD RS01685 WP 004920473.1   QCKRPI.QVPERSLLEMGFTPEDLAQPEFQIFEPVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.  539
consensus                                    !* *  * * * * ****** ***     *******!! *!*  !!*!!*****!** *****  *** *** *** ***
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logo



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NTDB id 1028 TT RS08215 WP 011173991.1      RKGMKTLREDGLYKALQGITTLEEVLARTIE  889
NTDB id 1306 DR RS10060 WP 027479822.1      ESGLRSLRQDGIEKALQGLTTLEEVLAVTAS  887
NTDB id 1168 A1552VC RS11070 WP 000957200.1 ANGMQTLQESGLEKLREGITSFAELQRVLYF  562
NTDB id 1401 DSB67 RS12665 WP 010643259.1   ANGMQTLQMSGIEKLKQGITSFRELQRVLYF  561
NTDB id 1293 VP RS12240 WP 005479695.1      ANGMSTLQMSGIEKLKQGITSFSELQRVLYF  561
NTDB id 1110 NGFG RS09235 WP 003689817.1    KEGMVDLRRAGILKIMQGITSLEEVTANTND  558
NTDB id 200676 BJK08 RS07390 WP 027227022.1 SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD  574
NTDB id 1251 GCO85 RS07725 WP 011946523.1   SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD  574
NTDB id 1058 ABD1 RS01615 WP 001274986.1    KLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE  570
NTDB id 1018 ACIAD RS01685 WP 004920473.1   TLGFNNLRRSGLKKVMQGVTSLQEINRVTSE  570
consensus                                     !* *** *!**!* *!*!***!***** *
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X non conserved
X similar
X ≥ 50% conserved