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NTDB id 1410 SGL RS13950 WP 010873519.1      ..........................................................................    0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 ..........................................................................    0
NTDB id 1028 TT RS08215 WP 011173991.1       MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK   80
NTDB id 1306 DR RS10060 WP 027479822.1       .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL   79
NTDB id 1355 HI 0298 AAC21962.1              ..........................................................................    0
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..........................................................................    0
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..........................................................................    0
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..........................................................................    0
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..........................................................................    0
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 1251 GCO85 RS07725 WP 011946523.1    ..........................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ..........................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ..........................................................................    0
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NTDB id 1410 SGL RS13950 WP 010873519.1      ..........................................................................    0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 ..........................................................................    0
NTDB id 1028 TT RS08215 WP 011173991.1       ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P   158
NTDB id 1306 DR RS10060 WP 027479822.1       RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA   157
NTDB id 1355 HI 0298 AAC21962.1              ..........................................................................    0
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..........................................................................    0
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..........................................................................    0
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..........................................................................    0
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..........................................................................    0
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 1251 GCO85 RS07725 WP 011946523.1    ..........................................................................    0
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ..........................................................................    0
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ..........................................................................    0
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1      ..........................................................................  0
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 ..........................................................................  0
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NTDB id 1306 DR RS10060 WP 027479822.1       SDAGRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL  237
NTDB id 1355 HI 0298 AAC21962.1              ..........................................................................  0
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NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..........................................................................  0
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..........................................................................  0
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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 1251 GCO85 RS07725 WP 011946523.1    ..........................................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ..........................................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ..........................................................................  0
consensus
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NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 ..........................................................................  0
NTDB id 1028 TT RS08215 WP 011173991.1       LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWEELFRRAYPQKNRLGEVLVQEGKLSR  317
NTDB id 1306 DR RS10060 WP 027479822.1       GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSR  317
NTDB id 1355 HI 0298 AAC21962.1              ..........................................................................  0
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NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..........................................................................  0
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 1251 GCO85 RS07725 WP 011946523.1    ..........................................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ..........................................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ..........................................................................  0
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1       SSSSKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQ...LFELK   80
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1  ..................................MESRMDK.......IFQAYI..DNEISLDEICTKFNITSWDFFKKLA    38
NTDB id 1028 TT RS08215 WP 011173991.1        EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLV..QSGKLRPEALA..........QAVA   385
NTDB id 1306 DR RS10060 WP 027479822.1        DQLREALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLV..QSGKLSPEMLA..........RSLA   385
NTDB id 1355 HI 0298 AAC21962.1               ..................................................MTSY......ALLHTQRVT..........AKNG    17
NTDB id 1366 NTHI RS01950 WP 011271972.1      ..................................................MTSY......ALLHTQRVT..........AQNG    17
NTDB id 1384 A4U84 RS08525 WP 010787006.1     ..................................................MSQY......T.....ICE..........QQTE    12
NTDB id 1468 ASU2 RS05090 WP 014991734.1      ..................................................MQY......S.....VCD..........MNSQ    11
NTDB id 1436 BW25113 RS00530 WP 001025145.1   ...............................................................................     0
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ..............MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLL..ELSIFHAQELT..........EQLS    54
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ..............MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLL..SSGFFQSHELT..........EHLS    54
NTDB id 1293 VP RS12240 WP 005479695.1        ..............MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLL..SSGFFTSSELA..........EHLS    54
NTDB id 1110 NGFG RS09235 WP 003689817.1      ..............MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLF..SDGVISPKSLA..........ALIA    53
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ......MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIA..........LTAA    62
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ......MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLI..DNFSISPLTIA..........EIIS    62
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ......MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLI..EEVHLSPSLLA..........ETIS    62
consensus                                                 *           *           *   **      *    *            *
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NTDB id 1410 SGL RS13950 WP 010873519.1       VLYGVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELN.RILRVKG..FE   157
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1  NFCNLHFVDLDEDN.......DFIYEGIPFSLLLKFKFLLLIK.NN...DGFMIIRSKPCSLELLEQVKTFMIC.....EK   102
NTDB id 1028 TT RS08215 WP 011173991.1        TQLGYPYVDPEEDPPD.....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLLMKDPRNILALDDVR.LALKRKGLNYE   456
NTDB id 1306 DR RS10060 WP 027479822.1        AQLGYEFLDPIQNPPD.....PKVALMIPEATARRYVVVPVRLQG...NSLVVAMKDPRNVFALDDLK.LITG.....KE   451
NTDB id 1355 HI 0298 AAC21962.1               EVFTTI.........SPD.....LWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIA.FITG.....KP    75
NTDB id 1366 NTHI RS01950 WP 011271972.1      EIFTTI.........SPD.....LWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIA.FITG.....KP    75
NTDB id 1384 A4U84 RS08525 WP 010787006.1     RIFDDI.........SPS.....RWQKNCEEKQLLLRYLAVPVQETE...HKLWLAVDDENNLTACEIFA.FMTH.....KQ    70
NTDB id 1468 ASU2 RS05090 WP 014991734.1      QVFDDI.........SES.....LWQKNCDEKHILLRYLAIPIQEND...DTLWLAIDDMNNLSACEIFA.FIAH.....KT    69
NTDB id 1436 BW25113 RS00530 WP 001025145.1   ..MNIPQL.....................TALCLRYHGVLLDASE...EVVHVAVVDAPSHELLDALH.FATT.....KR    48
NTDB id 1168 A1552VC RS11070 WP 000957200.1   HIFGLPETDLSRYDYA.....NLCQQLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEEEFR.FATG.....LQ   120
NTDB id 1401 DSB67 RS12665 WP 010643259.1     SVFGLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEDDFR.FATG.....LQ   120
NTDB id 1293 VP RS12240 WP 005479695.1        SIFGLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRTP...STLLLAVADPTNQQAEDDFR.FATG.....LQ   120
NTDB id 1110 NGFG RS09235 WP 003689817.1      RVFSYSILDLRHYPRH.....RVLMGVLTEEQMVEFHCVPVFRRG...DKVFFAVSDPTQMPQIQKTV.SAAG.....IA   119
NTDB id 1251 GCO85 RS07725 WP 011946523.1     QNFGVPMLDINCIDVG.....TIPVNLVNEKLIKRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQ.FHTG.....LN   128
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LEFGEPLLDLGVFDPA.....LFLKDKIDEKLIQKYRIMPLVHRG...HVLYVATSNPTNIEAMDAIR.FNSK.....LK   128
NTDB id 1058 ABD1 RS01615 WP 001274986.1      AEFAEPYFDLDVYDTS.....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIR.FNSK.....LL   128
consensus                                      ****    *                  **  **   ***          *  ***  *****  *  *  *   *  *
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NTDB id 1410 SGL RS13950 WP 010873519.1      LRRLVVTQDDFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDANQAPVINLV  237
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 IDTAIADELKIAKILNQIRIQEEIKRLSIKLR.........................L.EWQENHKRDDQSCISQIF  153
NTDB id 1028 TT RS08215 WP 011173991.1       VAPAVATEAAITKLIERFYGKAELSEIAKEFAKKQ.....................AEEEV..PSPLELDESAAQKFV  511
NTDB id 1306 DR RS10060 WP 027479822.1       ILPAVMAEKDIIRLIERYFGEKGFEKLNKELAERN.....................KTQQSQEADLSVADESAIVQVV  508
NTDB id 1355 HI 0298 AAC21962.1              VEPILLESSQLKELLQQLTPNQMQVEEQVK..........................FYQHQETHFEQEDDEPVIRLL  126
NTDB id 1366 NTHI RS01950 WP 011271972.1     VEPILLESSQLKELLQQLTPHQMQVEEQVK..........................FYQHQETHFEQEDDEPVIRLL  126
NTDB id 1384 A4U84 RS08525 WP 010787006.1    IEPVVIASDELKYLLNALSPEQQPIYEESE..........................LAFVEQE.QEQLNLNDPIIQLL  121
NTDB id 1468 ASU2 RS05090 WP 014991734.1     IEPVLISSDELKYLLNQLSPEQQSLYEETE..........................LNYQSPDNLDLLNQNDPIIQIL  121
NTDB id 1436 BW25113 RS00530 WP 001025145.1  IEITCWTRQQMEGHA...........................................SRTQQTLPVAVQEKHQPKAELL   85
NTDB id 1168 A1552VC RS11070 WP 000957200.1  VELALADHRALQAAIRRLYGRSIQGAANQGKEISQ.........DELANLVKV.....SDDELQSIEDLSQDDSPVSRFI  186
NTDB id 1401 DSB67 RS12665 WP 010643259.1    VELVLADFRELTAAIRRLYGRSLGQEKSGLKEINQ.........DELAGLVDI.....GEDEIENIEDLSQDESPVSRYI  186
NTDB id 1293 VP RS12240 WP 005479695.1       VELVLADFRELSTAIRRLYGRSLSHEKSGLKEINQ.........EELASLVDV.....GADEIDNIEDLSQDESPVSRYI  186
NTDB id 1110 NGFG RS09235 WP 003689817.1     VELVIVEDDQLAGLLDWVGSRSTSL..LQEL.....................GEGQEE.....EESHTLYIDNEEAEDGPVPRFI  176
NTDB id 1251 GCO85 RS07725 WP 011946523.1    THAIVVETDKLSALIDNLLTAKESQGLSEYVEDSG.......DLEGLEISAD......DEDQDIDTATSVTDDAPIVKFV  195
NTDB id 1018 ACIAD RS01685 WP 004920473.1    VEPIIVEHDKLERLLSEHFVEETHFNFDTE...EL.......D...LDVEVDP.....HTTDDDDEDDKLKDEAPIVKYI  190
NTDB id 1058 ABD1 RS01615 WP 001274986.1     VEPVIVEHHKLEKVLGQHFAEESSFDFNDE...EF.......D...LDVNLDG.....PTAQEDEEEAPQGDEAPIVKYI  190
consensus                                    ** ****   *  **  *                                        **  **** *
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NTDB id 1410 SGL RS13950 WP 010873519.1      NKILAKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..G  315
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 DFLLHEILSFHASDIHIEARNDDALIRFRVDGILRE.FAIFEKDIYEALVFHVKFLACLNLAESRKTQDGSFELDFE..N  230
NTDB id 1028 TT RS08215 WP 011173991.1       KQVIREAFLQDASDIHIEPRQNDVQVRLRIDGALRP.YSTLPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRYRE..GA  588
NTDB id 1306 DR RS10060 WP 027479822.1       DSIIREAALQDASDIHIETTEDAVKVRYRIDGALRE.QNSFPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRFKK..GS  585
NTDB id 1355 HI 0298 AAC21962.1              NQIFESALQKNASDIHLETLADQFQVRFRIDGVLQP.QPLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF.S  204
NTDB id 1366 NTHI RS01950 WP 011271972.1     NQIFESALQKNASDIHLETLADQFQVRFRIDGVLQP.QPLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF.S  204
NTDB id 1384 A4U84 RS08525 WP 010787006.1    DNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHL.YKSLSIQLASRLISRIKLLAKLDISELRQPQDGQFSFTTAL.A  199
NTDB id 1468 ASU2 RS05090 WP 014991734.1     DNLFKFCLKQNASDIHFEPQKEKLQIRLRIDGVLHI.YKSLSFSLANRIITRLKLLAKLDISETRLPQDGQFNFKTVT.A  199
NTDB id 1436 BW25113 RS00530 WP 001025145.1  TRTLQSALEQRASDIHIEPADNAYRIRLRIDGVLHP.LPDVSPDAGVALTARLKVLGNLDIAEHRLPQDGQFTVELA..G  162
NTDB id 1168 A1552VC RS11070 WP 000957200.1  NQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVE.TQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.D  264
NTDB id 1401 DSB67 RS12665 WP 010643259.1    NQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIE.IQQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.D  264
NTDB id 1293 VP RS12240 WP 005479695.1       NQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIE.TQQPPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.D  264
NTDB id 1110 NGFG RS09235 WP 003689817.1     HKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLRE.VVQPPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGG  255
NTDB id 1251 GCO85 RS07725 WP 011946523.1    NKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHE.VATPPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.S  273
NTDB id 1018 ACIAD RS01685 WP 004920473.1    NKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRL.IATPPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.S  268
NTDB id 1058 ABD1 RS01615 WP 001274986.1     NKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQ.IANPPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.S  268
consensus                                    *  **  ***    *!!*! !* *  ***!*!*!!*!       *  *  **  **!*** *** !*!**!!!*****
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NTDB id 1410 SGL RS13950 WP 010873519.1          RKVDFRVNTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSP  395
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1     ERYDFRVSCLPLIYGESVVIRILKHDKEILDLYKLNLGNKNLEILKKILHRPNGMILLTGPTGSGKSTTLYACLNELKSI  310
NTDB id 1028 TT RS08215 WP 011173991.1           IDVDLRLSTLPTVYGEKAVMRLLKKASDIPEIEDLGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATP  668
NTDB id 1306 DR RS10060 WP 027479822.1           IDLDLRLSTLPTVYGEKAVMRLLQKASNIPELEQLGFSEYNYARYTEIIERPNGIFLVTGPTGSGKSFTCFSTLKRIAKP  665
NTDB id 1355 HI 0298 AAC21962.1                  DILDFRLSTLPTHWGEKIVLRAQQNKPVELSFSELGMTENQQQAFQRVLSQPQGLILVTGPTGSGKSISLYTALQWLNTP  284
NTDB id 1366 NTHI RS01950 WP 011271972.1         DILDFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAFQRSLSQPQGLILVTGPTGSGKSISLYTALQWLNTP  284
NTDB id 1384 A4U84 RS08525 WP 010787006.1        DTLDFRVSSLPTIYGEKLVLRLQKNKPTSFDFLQLGFNPQQQTTLLNALKQPQGLILVTGPTGSGKSITLYSALNYLNQM  279
NTDB id 1468 ASU2 RS05090 WP 014991734.1         ETLDFRVSSLPTSFGEKIVLRLQKNKPTHFDFLELGFSPEQKQLLLTALHQPQGLILVTGPTGSGKSITLYSALNYLNNS  279
NTDB id 1436 BW25113 RS00530 WP 001025145.1      NAVSFRIATLPCRGGEKVVLRLLQQVGQALDVNTLGMQPLQLADFAHALQQPQGLVLVTGPTGSGKTVTLYSALQKLNTA  242
NTDB id 1168 A1552VC RS11070 WP 000957200.1      TAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTS  344
NTDB id 1401 DSB67 RS12665 WP 010643259.1        TAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKP  344
NTDB id 1293 VP RS12240 WP 005479695.1           TAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKP  344
NTDB id 1110 NGFG RS09235 WP 003689817.1         KPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTE  335
NTDB id 1251 GCO85 RS07725 WP 011946523.1        RAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTI  353
NTDB id 1018 ACIAD RS01685 WP 004920473.1        KTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTE  348
NTDB id 1058 ABD1 RS01615 WP 001274986.1         KAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTE  348
consensus                                           ***!****!***!!****!**      **** !** * *   ** ** *!*!**!*!!!!!!!!!*******!* ***
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NTDB id 1410 SGL RS13950 WP 010873519.1          EVNINTAEDPIEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAA  475
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1     EKKIISAEDPIEYKIPLVQQILLNSKVGVEFNSVLRAILRQDPDIIMIGEIRDEESLDIALKASLTGHLLLSTLHTNDAL  390
NTDB id 1028 TT RS08215 WP 011173991.1           DKNTQTIEDPVEYEIPGINQTQVNPQAGLTFARALRAFLRQDPDIIMVGEIRDSETAKIATEAALTGHLVIATLHTNDAA  748
NTDB id 1306 DR RS10060 WP 027479822.1           EKNTTTIEDPIEYEVPGIVQSQVNNSTGMTFARALRAFLRQDPDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAP  745
NTDB id 1355 HI 0298 AAC21962.1                  DKHIMTAEDPIEIELDGIIQSQINPQIGLDFNRLLRTFLRQDPDIIMLGEIRDEESAMIALRAAQTGHLVLSTLHTNDAI  364
NTDB id 1366 NTHI RS01950 WP 011271972.1         DKHIMTAEDPIEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDIIMLGEIRDEESARIALRAAQTGHLVLSTLHTNDAI  364
NTDB id 1384 A4U84 RS08525 WP 010787006.1        DKHILTAEDPVEIEIDGLIQTQVNRSIQLDFSQLLRTFLRQDPDIIMLGEIRDEESAKMALRASQTGHLVLSTLHTNDAL  359
NTDB id 1468 ASU2 RS05090 WP 014991734.1         ERHILTAEDPIEIEIEGIIQTQVNRAIQLDFSQLLRTFLRQDPDIIMLGEIRDQESAEIALRAAQTGHLVLSTLHTNDAP  359
NTDB id 1436 BW25113 RS00530 WP 001025145.1      DINICSVEDPVEIPIAGLNQTQIHPRAGLTFQQGVLRALLRQDPDVIMIGEIRDGETAEIAIKAAQTGHLVLSTLHTNSTC  322
NTDB id 1168 A1552VC RS11070 WP 000957200.1      QINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAA  424
NTDB id 1401 DSB67 RS12665 WP 010643259.1        EINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAA  424
NTDB id 1293 VP RS12240 WP 005479695.1           EINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAA  424
NTDB id 1110 NGFG RS09235 WP 003689817.1         SVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAP  415
NTDB id 1251 GCO85 RS07725 WP 011946523.1        EVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAA  433
NTDB id 1018 ACIAD RS01685 WP 004920473.1        HANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAA  428
NTDB id 1058 ABD1 RS01615 WP 001274986.1         SSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAP  428
consensus                                        *  **  **!!!*!*  *  ***!**********  !  *!****!!!!!****!!*!!  *****!**!**!!!*****!!!!!  *
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NTDB id 1410 SGL RS13950 WP 010873519.1        GAIARLDEMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAY.HPSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQK  554
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1   STIDRLLDMQAKSYLIASALSLVIAQRLVRKLCPWCKQKSKKH.............Y...........IEFEGEF..FE  443
NTDB id 1028 TT RS08215 WP 011173991.1         QAITRLDEMGVEPFNISAALIGVLSQRLVRRVCEHCKVEV.KPDPETLRRLGLSEAEI...........Q..GARL..YK  812
NTDB id 1306 DR RS10060 WP 027479822.1         GAVTRLEEMGIENFNISAAVMGVLAQRLVRRVCSECKQPT.NADPEVLRRLGISERDI...........R..GANL..MR  809
NTDB id 1355 HI 0298 AAC21962.1                SAISRLQQLGIQQYEIKNSLLLVIAQRLVRKLCSKCGGN.....................................  403
NTDB id 1366 NTHI RS01950 WP 011271972.1       SAISRLQQLGIQQHEIENSLLLVIAQRLVRKICPKCGGN.....................................  403
NTDB id 1384 A4U84 RS08525 WP 010787006.1      SAVERLLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGV.....................................  398
NTDB id 1468 ASU2 RS05090 WP 014991734.1       SAIERLLQLGIKEYEIKNSLQLIIAQRLLRKRCPQCGGK.....................................  398
NTDB id 1436 BW25113 RS00530 WP 001025145.1    ETLVRLQQMGVARWMLSSALTLVIAQRLVRKLCPHCRRQQGEPIHI........PDNV...........WPSPLPH..WQ  381
NTDB id 1168 A1552VC RS11070 WP 000957200.1    ETVIRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEI...........L....YE..AN  486
NTDB id 1401 DSB67 RS12665 WP 010643259.1      ETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ.EPNSQLQH.IGIANTEQ...........I....FQ..AN  485
NTDB id 1293 VP RS12240 WP 005479695.1         ETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EHTVQLQH.LGIQTTDN...........I....FR..AN  485
NTDB id 1110 NGFG RS09235 WP 003689817.1       ATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERPSASALKEVGFTDEDL...........AK.DWKL..YR  481
NTDB id 1251 GCO85 RS07725 WP 011946523.1      ETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADL...........V..NLKL..YK  498
NTDB id 1018 ACIAD RS01685 WP 004920473.1      ETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDL...........AQPEFQI..FE  494
NTDB id 1058 ABD1 RS01615 WP 001274986.1       ETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDL...........AHPDFRV..FQ  494
consensus                                        ** !* **** *** *** ****!!!*!**!  !*          *    *
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NTDB id 1410 SGL RS13950 WP 010873519.1        GNLCQ..KCSGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAV.EEGMITLLAYSLNLVQEGYTTLEEVERVTFT  631
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1   PKGCE..RCHHSGFFGRELIAECLEINEDLACAIRENQDKTILMELAK.KYGFQTMFEQGLKKAKEGLTSIDELLRVVR.  519
NTDB id 1028 TT RS08215 WP 011173991.1         GMGCE..RCGGTGYKGRYAIHELLVVDDEIRHAIVAGKSATEIKEIAR.RKGMKTLREDGLYKALQGITTLEEVLARTIE  889
NTDB id 1306 DR RS10060 WP 027479822.1         GTGCP..RCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRSLRQDGIEKALQGLTTLEEVLAVTAS  887
NTDB id 1355 HI 0298 AAC21962.1                ..LANSCDCH.QGYRGRIGVYQFLHWQQN.............DY......QTDFKNLRASGLEKVSQGITDEKEIERVLGK  462
NTDB id 1366 NTHI RS01950 WP 011271972.1       ..LINSCDCH.QGYRGRIGVYQFLHWQQN.............GY......QTDFENLRESGLEKVSQGITDEKEIERVLGK  462
NTDB id 1384 A4U84 RS08525 WP 010787006.1      ..GCD..ECY.QGYRGRIGVYQCLSRTAK.............KFDKQTA.YLDFSSLRESAKQKIEQQLTNETEVDRVLGY  460
NTDB id 1468 ASU2 RS05090 WP 014991734.1       ..GCD..NCY.HGYKGRTGIYQLLAKQGK.............FFEKSTA.YLDYDNLRASAEQKLAANITTVDEVKRVLGD  460
NTDB id 1436 BW25113 RS00530 WP 001025145.1    APGCV..HCY.HGFYGRTALFEVLPITPVIRQLISANTDVESLETHAR.QAGMRTLFENGCLAVEQGLTTFEELIRVLGM  457
NTDB id 1168 A1552VC RS11070 WP 000957200.1    AAGCN..ECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.ANGMQTLQESGLEKLREGITSFAELQRVLYF  562
NTDB id 1401 DSB67 RS12665 WP 010643259.1      PDGCN..ECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.ANGMQTLQMSGIEKLKQGITSFRELQRVLYF  561
NTDB id 1293 VP RS12240 WP 005479695.1         PDGCN..ECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.ANGMSTLQMSGIEKLKQGITSFSELQRVLYF  561
NTDB id 1110 NGFG RS09235 WP 003689817.1       AVGCD..RCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAY.KEGMVDLRRAGILKIMQGITSLEEVTANTND  558
NTDB id 1251 GCO85 RS07725 WP 011946523.1      AVGCE..QCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD  574
NTDB id 1018 ACIAD RS01685 WP 004920473.1      PVGCH..DCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNNLRRSGLKKVMQGVTSLQEINRVTSE  570
NTDB id 1058 ABD1 RS01615 WP 001274986.1       PVGCL..ECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.KLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE  570
consensus                                        **    !   !**!!*******     *   *        *   *    ** *** *** **  ***!** !*  ***
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NTDB id 1410 SGL RS13950 WP 010873519.1       DTGLESEMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS   672
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1  ........................................   519
NTDB id 1028 TT RS08215 WP 011173991.1        ........................................   889
NTDB id 1306 DR RS10060 WP 027479822.1        ........................................   887
NTDB id 1355 HI 0298 AAC21962.1               NL......................................   464
NTDB id 1366 NTHI RS01950 WP 011271972.1      NS......................................   464
NTDB id 1384 A4U84 RS08525 WP 010787006.1     E.......................................   461
NTDB id 1468 ASU2 RS05090 WP 014991734.1      G.......................................   461
NTDB id 1436 BW25113 RS00530 WP 001025145.1   PHGE....................................   461
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ........................................   562
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ........................................   561
NTDB id 1293 VP RS12240 WP 005479695.1        ........................................   561
NTDB id 1110 NGFG RS09235 WP 003689817.1      ........................................   558
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ........................................   574
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ........................................   570
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ........................................   570
consensus
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X non conserved
X similar
X ≥ 50% conserved