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NTDB id 1410 SGL RS13950 WP 010873519.1      .....................................................MTSSSS      6
NTDB id 1028 TT RS08215 WP 011173991.1       LRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWEELFRRAYPQKNRLGEVLVQEGKLSREAL    320
NTDB id 1366 NTHI RS01950 WP 011271972.1     .....................................................          0
NTDB id 86463 VAB027 RS15385 WP 046127051.1  .....................................................          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 1058 ABD1 RS01615 WP 001274986.1     .....................................................          0
NTDB id 1018 ACIAD RS01685 WP 004920473.1    .....................................................          0
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NTDB id 1410 SGL RS13950 WP 010873519.1      SKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELKVLYGVD     86
NTDB id 1028 TT RS08215 WP 011173991.1       KEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLVQS..GKLRPEALAQA.......VATQLGYP    391
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..................................................MTSY..ALLHTQRVTAQ.......NGEIFT..     21
NTDB id 86463 VAB027 RS15385 WP 046127051.1  ..........MLTNLVAILRQAELISVTQEQAVVEHISASGTSVPEALLGL..GIFHPQELTEQ.......LSHIFGLP     60
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ..........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLEL..SIFHAQELTEQ.......LSHIFGLP     60
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSS..GFFQSHELTEH.......LSSVFGLS     60
NTDB id 1293 VP RS12240 WP 005479695.1       ..........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSS..GFFTSSELAEH.......LSSIFGLS     60
NTDB id 1110 NGFG RS09235 WP 003689817.1     ..........MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFSD..GVISPKSLAAL.......IARVFSYS     59
NTDB id 1251 GCO85 RS07725 WP 011946523.1    ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKN..KILSAEQIALT.......AAQNFGVP     68
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEE..VHLSPSLLAET.......ISAEFAEP     68
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDN..FSISPLTIAEI.......ISLEFGEP     68
consensus                                                  * *  ***   ***  *    *   *  * ** * **    * ***  ***         ** *****
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NTDB id 1410 SGL RS13950 WP 010873519.1      SVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGF..ELRRLVVT    164
NTDB id 1028 TT RS08215 WP 011173991.1       YVDPEEDPPDP.....GAPLLLPEDLCRRYGVFPHRLE...GNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPAVAT    463
NTDB id 1366 NTHI RS01950 WP 011271972.1     ......ISPDL.....WERNQQQQSLLLRYFALPLKEE...NNRLWLGVDSLSNLSACETIAFITG.....KPVEPILLE     82
NTDB id 86463 VAB027 RS15385 WP 046127051.1  ETDLSRYDYAP.....LCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALAD    127
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ETDLSRYDYAN.....LCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEFRFATG.....LQVELALAD    127
NTDB id 1401 DSB67 RS12665 WP 010643259.1    CTSLNQYEYAS.....LCQTLGLRDLITRHNALPLNRT...SSTLILAVADPTNLQAEDDFRFATG.....LQVELVLAD    127
NTDB id 1293 VP RS12240 WP 005479695.1       QPELSQYEYAS.....LCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFATG.....LQVELVLAD    127
NTDB id 1110 NGFG RS09235 WP 003689817.1     ILDLRHYPRHR.....VLMGVLTEEQMVEFHCVPVFRR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELVIVE    126
NTDB id 1251 GCO85 RS07725 WP 011946523.1    MLDINCIDVGT.....IPVNLVNEKLIKRHAMVPLFSR...GTNLYLATDDPSKQASLKEIQFHTG.....LNTHAIVVE    135
NTDB id 1058 ABD1 RS01615 WP 001274986.1     YFDLDVYDTSQ.....IPKDLVDQKLILKHRILPLIQR...GQILYVATSNPSNIEAIDAIRFNSK.....LLVEPVIVE    135
NTDB id 1018 ACIAD RS01685 WP 004920473.1    LLDLGVFDPAL.....FLKDKIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDAIRFNSK.....LKVEPIIVE    135
consensus                                      **   ** *       *    *   *** **  *!*      *   ***** ***** *  ********     * **  ****
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NTDB id 1410 SGL RS13950 WP 010873519.1      QDDFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDANQAPVINLVNKILAKA  244
NTDB id 1028 TT RS08215 WP 011173991.1       EAAITKLIERFYGKAELSEIAKEF.....................AKKQAEEEVPSPLELDESAAQKFVKQVIREA  518
NTDB id 1366 NTHI RS01950 WP 011271972.1     SSQLKELLQQLTPHQMQVEE.........................QVKFYQHQETHFEQEDDEPVIRLLNQIFESA  133
NTDB id 86463 VAB027 RS15385 WP 046127051.1  HRALQAAIRRLYGRSIQGAANQGKEISQ...DELANL......V.....KVSDDELQSIEDLSQDDSPVSRFINQVLLDA  193
NTDB id 1168 A1552VC RS11070 WP 000957200.1  HRALQAAIRRLYGRSIQGAANQGKEISQ...DELANL......V.....KVSDDELQSIEDLSQDDSPVSRFINQVLLDA  193
NTDB id 1401 DSB67 RS12665 WP 010643259.1    FRELTAAIRRLYGRSLGQEKSGLKEINQ...DELAGL......V.....DIGEDEIENIEDLSQDESPVSRYINQILLDA  193
NTDB id 1293 VP RS12240 WP 005479695.1       FRELSTAIRRLYGRSLSHEKSGLKEINQ...EELASL......V.....DVGADEIDNIEDLSQDESPVSRYINQILLDA  193
NTDB id 1110 NGFG RS09235 WP 003689817.1     DDQLAGLLDWVGSRSTSL..LQEL.........GEG......Q.....EEEESHTLYIDNEEAEDGPVPRFIHKTLSDA  183
NTDB id 1251 GCO85 RS07725 WP 011946523.1    TDKLSALIDNLLTAKESQGLSEYVEDSG.DLEGLEIS......A.....D.DEDQDIDTATSVTDDAPIVKFVNKILLDA  202
NTDB id 1058 ABD1 RS01615 WP 001274986.1     HHKLEKVLGQHFAEESSFDFNDE...EF.D...LDVN......L.....DGPTAQEDEEEAPQGDEAPIVKYINKLLIDA  197
NTDB id 1018 ACIAD RS01685 WP 004920473.1    HDKLERLLSEHFVEETHFNFDTE...EL.D...LDVE......V.....DPHTTDDDDEDDKLKDEAPIVKYINKLLIDA  197
consensus                                       *  **  ****    *              * *         *     *  ***    **     **  **  *********!
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NTDB id 1410 SGL RS13950 WP 010873519.1      LQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKIIPAVVARFKIMADMDIAERRSPQDGKIRRIY..QGRKVDFRV  322
NTDB id 1028 TT RS08215 WP 011173991.1       FLQDASDIHIEPRQNDVQVRLRIDGALRPYST.LPKGALNAVISVVKIMGGLNIAEKRLPQDGRVRYRE..GAIDVDLRL  595
NTDB id 1366 NTHI RS01950 WP 011271972.1     LQKNASDIHLETLADQFQVRFRIDGVLQPQPL.ISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF.SDILDFRL  211
NTDB id 86463 VAB027 RS15385 WP 046127051.1  VRKGASDIHFEPYENQYRIRLRCDGILVETQQ.PASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRV  271
NTDB id 1168 A1552VC RS11070 WP 000957200.1  VRKGASDIHFEPYENQYRIRLRCDGILVETQQ.PASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRV  271
NTDB id 1401 DSB67 RS12665 WP 010643259.1    VRKGASDIHFEPYENMYRVRLRCDGILIEIQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRV  271
NTDB id 1293 VP RS12240 WP 005479695.1       VRKGASDIHFEPYEKMYRVRLRCDGILIETQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRV  271
NTDB id 1110 NGFG RS09235 WP 003689817.1     LRSGASDIHFEFYEHNARIRFRVDGQLREVVQ.PPIAVRGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRV  262
NTDB id 1251 GCO85 RS07725 WP 011946523.1    IRQGASDIHFEPYEREYRIRYRQDGILHEVAT.PPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISK.SRAIDFRV  280
NTDB id 1058 ABD1 RS01615 WP 001274986.1     IRMGASDLHFEPYEKSYRVRYRVDGVLRQIAN.PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRV  275
NTDB id 1018 ACIAD RS01685 WP 004920473.1    IRMSASDLHFEPYEKSYRVRYRVDGVLRLIAT.PPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRV  275
consensus                                    ** **!!*!*!***  ***!*! !!*!  *  * **  ** ** ***!*******!*!*!*!!!!*********   **!*!*
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NTDB id 1410 SGL RS13950 WP 010873519.1      NTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSPEVNINTA  402
NTDB id 1028 TT RS08215 WP 011173991.1       STLPTVYGEKAVMRLLKKASDIPEIEDLGFAPGVFERFKEVISKPYGIFLITGPTGSGKSFTTFSILKRIATPDKNTQTI  675
NTDB id 1366 NTHI RS01950 WP 011271972.1     STLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAFQRSLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTA  291
NTDB id 86463 VAB027 RS15385 WP 046127051.1  STLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTA  351
NTDB id 1168 A1552VC RS11070 WP 000957200.1  STLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTA  351
NTDB id 1401 DSB67 RS12665 WP 010643259.1    STLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTA  351
NTDB id 1293 VP RS12240 WP 005479695.1       STLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTA  351
NTDB id 1110 NGFG RS09235 WP 003689817.1     STLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKKLLLEAIHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATA  342
NTDB id 1251 GCO85 RS07725 WP 011946523.1    STCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTA  360
NTDB id 1058 ABD1 RS01615 WP 001274986.1     NSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTA  355
NTDB id 1018 ACIAD RS01685 WP 004920473.1    NSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTA  355
consensus                                    ***!***!!!***!***** * * ** !** * ********* *!*!**!*!!!!!!!!*******!***** *****!*
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NTDB id 1410 SGL RS13950 WP 010873519.1      EDPIEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAAGAIARLD 482
NTDB id 1028 TT RS08215 WP 011173991.1       EDPVEYEIPGINQTQVNPQAGLTFARALRAFLRQDPDIIMVGEIRDSETAKIATEAALTGHLVIATLHTNDAAQAITRLD 755
NTDB id 1366 NTHI RS01950 WP 011271972.1     EDPIEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDIIMLGEIRDEESARIALRAAQTGHLVLSTLHTNDAISAISRLQ 371
NTDB id 86463 VAB027 RS15385 WP 046127051.1  EDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLA 431
NTDB id 1168 A1552VC RS11070 WP 000957200.1 EDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLA 431
NTDB id 1401 DSB67 RS12665 WP 010643259.1   EDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLS 431
NTDB id 1293 VP RS12240 WP 005479695.1       EDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLS 431
NTDB id 1110 NGFG RS09235 WP 003689817.1     EDPAEINLPGINQVNVNDKQGLTFAAALKSFLRQDPDIIMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRML 422
NTDB id 1251 GCO85 RS07725 WP 011946523.1    EDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLV 440
NTDB id 1058 ABD1 RS01615 WP 001274986.1     EDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLR 435
NTDB id 1018 ACIAD RS01685 WP 004920473.1    EDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLR 435
consensus                                    !!!*!*** !**!********!* !* *!**!*!!!!!****!!*!!***!**!**!**!!!*!**!!!!!*!**** !*
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logo
NTDB id 1410 SGL RS13950 WP 010873519.1      EMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAY.HPSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQKGNLCQKC 561
NTDB id 1028 TT RS08215 WP 011173991.1       EMGVEPFNISAALIGVLSQRLVRRVCEHCKVEV.KPDPETLRRLGLSEAEIQ..G.............ARLYKGMGCERC 819
NTDB id 1366 NTHI RS01950 WP 011271972.1     QLGIQQHEIENSLLLVIAQRLVRKICPKCGGNL.....................................INSCDC 410
NTDB id 86463 VAB027 RS15385 WP 046127051.1  NMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEIL.................YEANAAGCNEC 493
NTDB id 1168 A1552VC RS11070 WP 000957200.1 NMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSALLQSQFAFQPNEIL.................YEANAAGCNEC 493
NTDB id 1401 DSB67 RS12665 WP 010643259.1   NMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ.EPNSQLQH.IGIANTEQI.................FQANPDGCNEC 492
NTDB id 1293 VP RS12240 WP 005479695.1       NMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EHTVQLQH.LGIQTTDNI.................FRANPDGCNEC 492
NTDB id 1110 NGFG RS09235 WP 003689817.1     NMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERPSASALKEVGFTDEDLAK.D.............WKLYRAVGCDRC 488
NTDB id 1251 GCO85 RS07725 WP 011946523.1    NMGLPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLV..N.............LKLYKAVGCEQC 505
NTDB id 1058 ABD1 RS01615 WP 001274986.1     NMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLAHPD.............FRVFQPVGCLEC 501
NTDB id 1018 ACIAD RS01685 WP 004920473.1    NMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLAQPE.............FQIFEPVGCHDC 501
consensus                                    **!** ************!!!*!**!  !*  *  **  *  ***  **                    ****  *!
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NTDB id 1410 SGL RS13950 WP 010873519.1      SGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAVEEGMITLLAYSLNLVQEGYTTLEEVERVTFTDTGLESEMRA 641
NTDB id 1028 TT RS08215 WP 011173991.1       GGTGYKGRYAIHELLVVDDEIRHAIVAGKSATEIKEIARRKGMKTLREDGLYKALQGITTLEEVLARTIE.......... 889
NTDB id 1366 NTHI RS01950 WP 011271972.1     H.QGYRGRIGVYQFLHWQQ.................NGYQTDFENLRESGLEKVSQGITDEKEIERVLGKNS........ 464
NTDB id 86463 VAB027 RS15385 WP 046127051.1  T.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQESGLEKLREGITSFAELQRVLYF.......... 562
NTDB id 1168 A1552VC RS11070 WP 000957200.1 T.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQESGLEKLREGITSFAELQRVLYF.......... 562
NTDB id 1401 DSB67 RS12665 WP 010643259.1   T.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAIANGMQTLQMSGIEKLKQGITSFRELQRVLYF.......... 561
NTDB id 1293 VP RS12240 WP 005479695.1       T.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAIANGMSTLQMSGIEKLKQGITSFSELQRVLYF.......... 561
NTDB id 1110 NGFG RS09235 WP 003689817.1     RGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAYKEGMVDLRRAGILKIMQGITSLEEVTANTND.......... 558
NTDB id 1251 GCO85 RS07725 WP 011946523.1    T.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTTFQSGIEKVKEGITTIEEVNRVTVD.......... 574
NTDB id 1058 ABD1 RS01615 WP 001274986.1     R.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASEKLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE.......... 570
NTDB id 1018 ACIAD RS01685 WP 004920473.1    R.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAETLGFNNLRRSGLKKVMQGVTSLQEINRVTSE.......... 570
consensus                                    *  !!*!!*******    **   **  **  **  **   ** **  ****** *!*!** !******
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NTDB id 1410 SGL RS13950 WP 010873519.1      KRKSALTCRTCAAELQQEWLDCPYCMTSRFS   672
NTDB id 1028 TT RS08215 WP 011173991.1       ................................  889
NTDB id 1366 NTHI RS01950 WP 011271972.1     ................................  464
NTDB id 86463 VAB027 RS15385 WP 046127051.1  ................................  562
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 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 ≥ 50% conserved