logo



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NTDB id 1366 NTHI RS01950 WP 011271972.1     ..........................................MTSY....ALLHTQRVTAQNGEIFTT.........SPDLW   27
NTDB id 1355 HI 0298 AAC21962.1              ..........................................MTSY....ALLHTQRVTAKNGEVFTI.........SPDLW   27
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..........................................MSQY....T.....ICEQQTERIFDI.........SPSRW   22
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..........................................MQY....S.....VCDMNSQQVFDI.........SESLW   21
NTDB id 52195 JG732 RS19055 WP 001025145.1   ..................................................................MNIPQL..........    6
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..................................................................MNIPQL..........    6
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDYANL   72
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLSSGFFQSHELTEHLSSVFGLSCTSLNQYEYASL   72
NTDB id 1293 VP RS12240 WP 005479695.1       ........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYEYASL   72
NTDB id 1110 NGFG RS09235 WP 003689817.1     ........MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFSDGVISPKSLAALIARVFSYSILDLRHYPRHRV   71
NTDB id 1251 GCO85 RS07725 WP 011946523.1    MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFGVPMLDINCIDVGTI   80
NTDB id 1018 ACIAD RS01685 WP 004920473.1    MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIISLEFGEPLLDLGVFDPALF   80
NTDB id 1058 ABD1 RS01615 WP 001274986.1     MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDTSQI   80
consensus                                                    *                *      **  *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     ERNQQQQSLLLRYFALPLKEENNRLWLGVDSLSNLSACETIAFITGKPVEPILLESSQLKELLQQLTPHQMQVEEQVK..   105
NTDB id 1355 HI 0298 AAC21962.1              ERNQQQQSLLLRYFALPLKEENNRLWLGVDSLSNLSACETIAFITGKPVEPILLESSQLKELLQQLTPNQMQVEEQVK..   105
NTDB id 1384 A4U84 RS08525 WP 010787006.1    QKNCEEKQLLLRYLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVIASDELKYLLNALSPEQQPIYEESE..   100
NTDB id 1468 ASU2 RS05090 WP 014991734.1     QKNCDEKHILLRYLAIPIQENDDTLWLALDDMNNLSACEIFAFIAHKTIEPVLISSDELKYLLNQLSPEQQSLYEETE..    99
NTDB id 52195 JG732 RS19055 WP 001025145.1   ......TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTKRIEITCWTRQQMEGHA.................    63
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ......TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTKRIEITCWTRQQMEGHA.................    63
NTDB id 1168 A1552VC RS11070 WP 000957200.1  CQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEEFRFATGLQVELALADHRALQAAIRRLYGRSIQGAANQGKE   152
NTDB id 1401 DSB67 RS12665 WP 010643259.1    CQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAAIRRLYGRSLGQEKSGLKE   152
NTDB id 1293 VP RS12240 WP 005479695.1       CQQLGLRELITRHNALPLHRTPSTLLLAVADPTNQQAEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHEKSGLKE   152
NTDB id 1110 NGFG RS09235 WP 003689817.1     LMGVLTEEQMVEFHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSTSL..LQEL.   148
NTDB id 1251 GCO85 RS07725 WP 011946523.1    PVNLVNEKLIKRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE   160
NTDB id 1018 ACIAD RS01685 WP 004920473.1    LKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLKVEPIIVEHDKLERLLSEHFVEETHFNFDTE..   158
NTDB id 1058 ABD1 RS01615 WP 001274986.1     PKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDFNDE..   158
consensus                                          *****  ****       *****  *  ***  *  *    *  *    **  ****    *   **   *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     ..............FYQHQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPQPLISKIF   170
NTDB id 1355 HI 0298 AAC21962.1              ..............FYQHQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPQPLISKIF   170
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..............LAFVEQE.QEQLNLNDPIIQLLDNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLYKSLSIQL   165
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..............LNYQSPDNLDLLNQNDPIIQILDNLFKFCLKQNASDIHFEPQKEKLQIRLRIDGVLHIYKSLSFSL   165
NTDB id 52195 JG732 RS19055 WP 001025145.1   ..............SRTQQTLPVAVQEKHQPKAELLTRTLQSALEQRASDIHIEPADNAYRIRLRIDGVLHPLPDVSPDA   129
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..............SRTQQTLPVAVQEKHQPKAELLTRTLQSALEQRASDIHIEPADNAYRIRLRIDGVLHPLPDVSPDA   129
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ISQ..DELANLVKVSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPASHL   230
NTDB id 1401 DSB67 RS12665 WP 010643259.1    INQ..DELAGLVDIGEDEIENIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQQPPSHL   230
NTDB id 1293 VP RS12240 WP 005479695.1       INQ..EELASLVDVGADEIDNIEDLSQDESPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQPPNHL   230
NTDB id 1110 NGFG RS09235 WP 003689817.1     ........GEGQEEEESHTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNARIRFRVDGQLREVVQPPIAV   220
NTDB id 1251 GCO85 RS07725 WP 011946523.1    DSGDLEGLEISAD.DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGILHEVATPPASL   239
NTDB id 1018 ACIAD RS01685 WP 004920473.1    .ELD...LDVEVDPHTTDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLIATPPLQL   234
NTDB id 1058 ABD1 RS01615 WP 001274986.1     .EFD...LDVNLDGPTAQEDEEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQIANPPLQL   234
consensus                                          **  !*  *  **  **   ***   !!!*!*!*  *   ***!  !*!!*!          *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     ANRISRLKLLAKLDISENRLPQDGRFQFKTTF.SDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAF 249
NTDB id 1355 HI 0298 AAC21962.1              ANRISRLKLLAKLDISENRLPQDGRFQFKTTF.SDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFSELGMTENQQQAF 249
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ASRLISRIKLLAKLDISELRQPQDGQFSFTTAL.ADTLDFRVSSLPTIYGEKLVLRLQKNKPTSFDFLQLGFNPQQQTTL 244
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ANRITRLKLLAKLDISETRLPQDGQFNFKTVT.AETLDFRVSSLPTSFGEKIVLRLQKNKPTHFDFLELGFSPEQKQLL 244
NTDB id 52195 JG732 RS19055 WP 001025145.1   GVALTARLKVLGNLDIAEHRLPQDGQFTVELA..GNAVSFRIATLPCRGGEKVVLRLLQQVGQALDVNTLGMQPLQLADF 207
NTDB id 1436 BW25113 RS00530 WP 001025145.1  GVALTARLKVLGNLDIAEHRLPQDGQFTVELA..GNAVSFRIATLPCRGGEKVVLRLLQQVGQALDVNTLGMQPLQLADF 207
NTDB id 1168 A1552VC RS11070 WP 000957200.1 SRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLY 309
NTDB id 1401 DSB67 RS12665 WP 010643259.1   SRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLY 309
NTDB id 1293 VP RS12240 WP 005479695.1       SRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ.DTAIDMRVSTLPTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLY 309
NTDB id 1110 NGFG RS09235 WP 003689817.1     RGQLASRIKVMSRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGEKVVMRILNSDAASLNIDQLGFEPFQKKLL 300
NTDB id 1251 GCO85 RS07725 WP 011946523.1    SSRITARIKVMSNLDISERRIPQDGFKMKISK.SRAIDFRVSTCPTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNF 318
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ATRLASRLKVMSQMDISEKRVPQDGRIKLKMSK.SKTIDFRVNSLPTLFGEKIVLRILDPASAMLGIDALGYEPEQKALF 313
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ANRLASRLKVMSQMDISEKRVPQDGRIKLKLSK.SKAIDFRVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALF 313
consensus                                    *  **   !*!** **!!*! !*!!!!*  ***      ***!****!* *!!!*!*!**       *  *   !!*  *  !*   *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     QRSLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPIEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDI 329
NTDB id 1355 HI 0298 AAC21962.1              QRVLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPIEIELDGIIQSQINPQIGLDFNRLLRTFLRQDPDI 329
NTDB id 1384 A4U84 RS08525 WP 010787006.1    LNALKQPQGLILVTGPTGSGKSITLYSALNYLNQMDKHILTAEDPVEIEIDGLIQTQVNRSIQLDFSQLLRTFLRQDPDI 324
NTDB id 1468 ASU2 RS05090 WP 014991734.1     LTALHQPQGLILVTGPTGSGKSITLYSALNYLNNSERHILTAEDPIEIEIEGIIQTQVNRAIQLDFSQLLRTFLRQDPDI 324
NTDB id 52195 JG732 RS19055 WP 001025145.1   AHALQQPQGLVLVTGPTGSGKTVTLYSALQKLNTADINICSVEDPVEIPIAGLNQTQIHPRAGLTFQGVLRALLRQDPDV 287
NTDB id 1436 BW25113 RS00530 WP 001025145.1  AHALQQPQGLVLVTGPTGSGKTVTLYSALQKLNTADINICSVEDPVEIPIAGLNQTQIHPRAGLTFQGVLRALLRQDPDV 287
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDV 389
NTDB id 1401 DSB67 RS12665 WP 010643259.1   LDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDV 389
NTDB id 1293 VP RS12240 WP 005479695.1       LEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQDPDV 389
NTDB id 1110 NGFG RS09235 WP 003689817.1     LEATHRPYGMVLVTGPTGSGKTVSLYTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAAALKSFLRQDPDI 380
NTDB id 1251 GCO85 RS07725 WP 011946523.1    LKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDPVEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDI 398
NTDB id 1018 ACIAD RS01685 WP 004920473.1    MEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDPVEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDI 393
NTDB id 1058 ABD1 RS01615 WP 001274986.1     MEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDPVEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDI 393
consensus                                    *  **   !*!**!*!!!!!!!!!***!!**!*  !!*  *  *!  **!!!*!!  *  !***!  ********  !    !***!!!!!!*
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NTDB id 1366 NTHI RS01950 WP 011271972.1     IMLGEIRDEESARIALRAAQTGHLVLSTLHTNDAISAISRLQQLGIQQHEIENSLLLVIAQRLVRKICPKCGGN...... 403
NTDB id 1355 HI 0298 AAC21962.1              IMLGEIRDEESAMIALRAAQTGHLVLSTLHTNDAISAISRLQQLGIQQYEIKNSLLLVIAQRLVRKLCSKCGGN...... 403
NTDB id 1384 A4U84 RS08525 WP 010787006.1    IMLGEIRDEESAKMALRASQTGHLVLSTLHTNDALSAVERLLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGV...... 398
NTDB id 1468 ASU2 RS05090 WP 014991734.1     IMLGEIRDQESAEIALRAAQTGHLVLSTLHTNDAPSAIERLLQLGIKEYEIKNSLQLIIAQRLLRKRCPQCGGK...... 398
NTDB id 52195 JG732 RS19055 WP 001025145.1   IMIGEIRDGETAEIAIKAAQTGHLVLSTLHTNSTCETLVRLQQMGVARWMLSSALTLVIAQRLVRKLCPHCRRQQGEPIH 367
NTDB id 1436 BW25113 RS00530 WP 001025145.1  IMIGEIRDGETAEIAIKAAQTGHLVLSTLHTNSTCETLVRLQQMGVARWMLSSALTLVIAQRLVRKLCPHCRRQQGEPIH 367
NTDB id 1168 A1552VC RS11070 WP 000957200.1 VMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSA 468
NTDB id 1401 DSB67 RS12665 WP 010643259.1   VMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ.EPNS 468
NTDB id 1293 VP RS12240 WP 005479695.1       VMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EHTV 468
NTDB id 1110 NGFG RS09235 WP 003689817.1     IMVGEIRDLETADIAIKAAQTGHMVFSTLHTNNAPATLSRMLNMGVAPFNIASSVSLIMAQRLLRRLCSSCKQEVERPSA 460
NTDB id 1251 GCO85 RS07725 WP 011946523.1    IMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTN 478
NTDB id 1018 ACIAD RS01685 WP 004920473.1    IMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPE 472
NTDB id 1058 ABD1 RS01615 WP 001274986.1     IMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPK 472
consensus                                    *!*!!!!!  **!**!**!*!!!!*!*!!!!!!  *  ***  !* **!*  *  *  ***  !**!!!!  !***!   !*
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NTDB id 1366 NTHI RS01950 WP 011271972.1     .....................LINSCDCH.QGYRGRIGVYQFLHWQQN.............GY.....QTDFENLRES   441
NTDB id 1355 HI 0298 AAC21962.1              .....................LANSCDCH.QGYRGRIGVYQFLHWQQN.............DY.....QTDFKNLRAS   441
NTDB id 1384 A4U84 RS08525 WP 010787006.1    .....................GC..DECY.QGYRGRIGVYQCLSRTAK.............KFDKQTAYLDFSSLRES   439
NTDB id 1468 ASU2 RS05090 WP 014991734.1     .....................GC..DNCY.HGYKGRTGIYQLLAKQGK.............FFEKSTAYLDYDNLRAS   439
NTDB id 52195 JG732 RS19055 WP 001025145.1   I........PDNVWPSPLPHWQAPGC..VHCY.HGFYGRTALFEVLPITPVIRQLISANTDVESLETHARQAGMRTLFEN   436
NTDB id 1436 BW25113 RS00530 WP 001025145.1  I........PDNVWPSPLPHWQAPGC..VHCY.HGFYGRTALFEVLPITPVIRQLISANTDVESLETHARQAGMRTLFEN   436
NTDB id 1168 A1552VC RS11070 WP 000957200.1  LLQSQFAFQPNEIL....YEANAAGC..NECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAKANGMQTLQES   541
NTDB id 1401 DSB67 RS12665 WP 010643259.1    QLQH.IGIANTEQI....FQANPDGC..NECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAIANGMQTLQMS   540
NTDB id 1293 VP RS12240 WP 005479695.1       QLQH.LGIQTTDNI....FRANPDGC..NFCT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAIANGMSTLQMS   540
NTDB id 1110 NGFG RS09235 WP 003689817.1     SALKEVGFTDEDLAK.DWKLYRAVGC..DRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGILDVAYKEGMVDLRRA   537
NTDB id 1251 GCO85 RS07725 WP 011946523.1    QGLIELGFKEADLV..NLKLYKAVGC..EQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQS   553
NTDB id 1018 ACIAD RS01685 WP 004920473.1    RSLLEMGFTPEDLAQPEFQIFEPVGC..HDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAETLGFNNLRRS   549
NTDB id 1058 ABD1 RS01615 WP 001274986.1     QSLLEMGFTEQDLAHPDFRVFQPVGC..LECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASEKLGFNNLRRS   549
consensus                                                              **    *!    !**!! ******      *    *          *    *    *    *   *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     GLEKVSQGITDEKEIERVLGKNS..   464
NTDB id 1355 HI 0298 AAC21962.1              GLEKVSQGITDEKEIERVLGKNL..   464
NTDB id 1384 A4U84 RS08525 WP 010787006.1    AKQKIEQQLTNETEVDRVLGYE...   461
NTDB id 1468 ASU2 RS05090 WP 014991734.1     AEQKLAANITTVDEVKRVLGDG...   461
NTDB id 52195 JG732 RS19055 WP 001025145.1   GCLAVEQGLTTFEELIRVLGMPHGE   461
NTDB id 1436 BW25113 RS00530 WP 001025145.1  GCLAVEQGLTTFEELIRVLGMPHGE   461
NTDB id 1168 A1552VC RS11070 WP 000957200.1  GLEKLREGITSFAELQRVLYF....   562
NTDB id 1401 DSB67 RS12665 WP 010643259.1    GIEKLKQGITSFRELQRVLYF....   561
NTDB id 1293 VP RS12240 WP 005479695.1       GIEKLKQGITSFSELQRVLYF....   561
NTDB id 1110 NGFG RS09235 WP 003689817.1     GILKIMQGITSLEEVTANTND....   558
NTDB id 1251 GCO85 RS07725 WP 011946523.1    GIEKVKEGITTIEEVNRVTVD....   574
NTDB id 1018 ACIAD RS01685 WP 004920473.1    GLKKVMQGVTSLQEINRVTSE....   570
NTDB id 1058 ABD1 RS01615 WP 001274986.1     GLKKVMQGVTSLQEVNRVTSE....   570
consensus                                    **  **  ***!*   !* ***
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X non conserved

X similar

X ≥ 50% conserved