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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          ........................................MLCQNCNINEAT...............................    12
NTDB id 69317 MDRSPN RS06155 WP 000882517.1     ........................................MLCQNCKINDST...............................    12
NTDB id 281 KZH43 RS03550 WP 000882517.1        ........................................MLCQNCKINDST...............................    12
NTDB id 245 SPD RS03860 WP 000882517.1          ........................................MLCQNCKINDST...............................    12
NTDB id 243 SPR RS03635 WP 000882517.1          ........................................MLCQNCKINDST...............................    12
NTDB id 241 SP RS04015 WP 000882523.1           ........................................MLCQNCKINDST...............................    12
NTDB id 378 SMU RS02690 WP 002263569.1          ........................................MLCQNCKLNEAT...............................    12
NTDB id 85 BSU 00860 NP 387967.1                ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG........R    70
NTDB id 610 V4T04 RS10165 WP 012897346.1        MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDL........EDLSSH    72
NTDB id 287 SP RS11210 WP 001109712.1           .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS    70
NTDB id 290 KZH43 RS10025 WP 001109677.1        .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS    70
NTDB id 289 SPD RS10700 WP 001109677.1          .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS    70
NTDB id 377 SMU RS09275 WP 002262344.1          ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS    76
NTDB id 297 STER RS00545 WP 011680614.1         ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS    76
NTDB id 329 STU RS10020 WP 011225298.1          ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS    76
consensus                                                                               **     *   *
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          ....IHLYTSVNGQKKQIDLCQNCYQI...MKSGGQEALFGAGNASNGNSDE............PFNP.FNDIFSALQG.    71
NTDB id 69317 MDRSPN RS06155 WP 000882517.1     ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 281 KZH43 RS03550 WP 000882517.1        ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 245 SPD RS03860 WP 000882517.1          ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 243 SPR RS03635 WP 000882517.1          ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 241 SP RS04015 WP 000882523.1           ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 378 SMU RS02690 WP 002263569.1          ....IHLYANVNGQQKQIDLCQNCYQI...MKTDPENGPLNHLSQQNSSS...............INPFFDDFFGDLNNF    70
NTDB id 85 BSU 00860 NP 387967.1                GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL........   141
NTDB id 610 V4T04 RS10165 WP 012897346.1        VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLLKL........QKINIVSLRKELEKR   143
NTDB id 287 SP RS11210 WP 001109712.1           QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEER   150
NTDB id 290 KZH43 RS10025 WP 001109677.1        QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER   150
NTDB id 289 SPD RS10700 WP 001109677.1          QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER   150
NTDB id 377 SMU RS09275 WP 002262344.1          N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERY   154
NTDB id 297 STER RS00545 WP 011680614.1         ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN   156
NTDB id 329 STU RS10020 WP 011225298.1          ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN   156
consensus                                           * *  *  * ** **  *    *   *  * *  *** * * *                   *   *    *
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NTDB id 601 KW2 RS02615 WP 021036805.1        QDFNGAASN.....QTPPTQTGG..........RGPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRV   136
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  RPSSN..TP.....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 281 KZH43 RS03550 WP 000882517.1     RPSSN..TP.....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 245 SPD RS03860 WP 000882517.1       RPSSN..TP.....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 243 SPR RS03635 WP 000882517.1       RPSSN..TP.....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 241 SP RS04015 WP 000882523.1        RPSSN..TP.....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 378 SMU RS02690 WP 002263569.1       RAFNNQDLP.....NTPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRV   143
NTDB id 85 BSU 00860 NP 387967.1             LGSNET.............................GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRV   192
NTDB id 610 V4T04 RS10165 WP 012897346.1     TGLKVPESKKAVTPMSKRKMAKG..................VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRL   205
NTDB id 287 SP RS11210 WP 001109712.1        AGWTREDLKA.LRQRHRTV.ADK..........QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM   218
NTDB id 290 KZH43 RS10025 WP 001109677.1     AGWTREDLKA.LRQRHRTV.ADK..........QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM   218
NTDB id 289 SPD RS10700 WP 001109677.1       AGWTREDLKA.LRQRHRTV.ADK..........QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM   218
NTDB id 377 SMU RS09275 WP 002262344.1       AGFSKEDIKA.IFEMRKPKKVKN..........SSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRM   222
NTDB id 297 STER RS00545 WP 011680614.1      AGLSKQDLKA.IHDLRKPKKSKA..........SANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRM   225
NTDB id 329 STU RS10020 WP 011225298.1       AGLSKQDLKA.IHDLRKPKKSKA..........SANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISRM   225
consensus                                     * *              *    *                    *    * !***   *!**!* * **!*!!!**!! !*

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NTDB id 601 KW2 RS02615 WP 021036805.1        IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKRN   216
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRE   222
NTDB id 281 KZH43 RS03550 WP 000882517.1     IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRE   222
NTDB id 245 SPD RS03860 WP 000882517.1       IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRE   222
NTDB id 243 SPR RS03635 WP 000882517.1       IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRE   222
NTDB id 241 SP RS04015 WP 000882523.1        IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRE   222
NTDB id 378 SMU RS02690 WP 002263569.1       IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQRQ   223
NTDB id 85 BSU 00860 NP 387967.1             IEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAG   272
NTDB id 610 V4T04 RS10165 WP 012897346.1     IHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDP   285
NTDB id 287 SP RS11210 WP 001109712.1        IQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDG   298
NTDB id 290 KZH43 RS10025 WP 001109677.1     IQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDG   298
NTDB id 289 SPD RS10700 WP 001109677.1       IQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDG   298
NTDB id 377 SMU RS09275 WP 002262344.1       VQILSRKTKNNPVLVGDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEADG   302
NTDB id 297 STER RS00545 WP 011680614.1      IQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADG   305
NTDB id 329 STU RS10020 WP 011225298.1       IQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADG   305
consensus                                    * *! !*!!!!!!!*!**!!!!*!* *!!!!*!* **!!  *    ** !*****! !!  !! !!*!** *****
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NTDB id 601 KW2 RS02615 WP 021036805.1        DVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITIL   295
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL   301
NTDB id 281 KZH43 RS03550 WP 000882517.1     DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL   301
NTDB id 245 SPD RS03860 WP 000882517.1       DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL   301
NTDB id 243 SPR RS03635 WP 000882517.1       DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL   301
NTDB id 241 SP RS04015 WP 000882523.1        DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL   301
NTDB id 378 SMU RS02690 WP 002263569.1       DVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITIL   302
NTDB id 85 BSU 00860 NP 387967.1             NIILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQIL   351
NTDB id 610 V4T04 RS10165 WP 012897346.1     DVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAIL   365
NTDB id 287 SP RS11210 WP 001109712.1        QVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL   378
NTDB id 290 KZH43 RS10025 WP 001109677.1     QVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL   378
NTDB id 289 SPD RS10700 WP 001109677.1       QVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL   378
NTDB id 377 SMU RS09275 WP 002262344.1       HIVLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQIL   382
NTDB id 297 STER RS00545 WP 011680614.1      KIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDIL   385
NTDB id 329 STU RS10020 WP 011225298.1       KIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDIL   385
consensus                                     ***!!!!!*! **!*!** *  *!!*!!!!!*!!!!*****!!!!  !!   !!!!*!!*!!   * ***!*******!!
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NTDB id 601 KW2 RS02615 WP 021036805.1        RGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLKF..VDPEDINRRIADAENKKNEAT   373
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT   379
NTDB id 281 KZH43 RS03550 WP 000882517.1     KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT   379
NTDB id 245 SPD RS03860 WP 000882517.1       KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT   379
NTDB id 243 SPR RS03635 WP 000882517.1       KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT   379
NTDB id 241 SP RS04015 WP 000882523.1        KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT   379
NTDB id 378 SMU RS02690 WP 002263569.1       KGIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKEIDHRLIEAENLKAQAT   380
NTDB id 85 BSU 00860 NP 387967.1             QGLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAV   431
NTDB id 610 V4T04 RS10165 WP 012897346.1     QGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAV   445
NTDB id 287 SP RS11210 WP 001109712.1        QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKAL   450
NTDB id 290 KZH43 RS10025 WP 001109677.1     QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKAL   450
NTDB id 289 SPD RS10700 WP 001109677.1       QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKAL   450
NTDB id 377 SMU RS09275 WP 002262344.1       LGLKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHAL   452
NTDB id 297 STER RS00545 WP 011680614.1      NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKREI....T....PLDEAL   455
NTDB id 329 STU RS10020 WP 011225298.1       NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKREI....T....PLDEAL   455
consensus                                     !*  **!**! !  *! !***!  ** !!*  * !!!*!!!!*!!**  *** *     * ***   * *       !
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NTDB id 601 KW2 RS02615 WP 021036805.1        KAEDFEKAAHFRDQISKLRELQK......QEVTDEDMPVITEKDIEQIVEQKTQIPVGDLKEKEQTQLINLADDLKAHVI   447
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 281 KZH43 RS03550 WP 000882517.1     REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 245 SPD RS03860 WP 000882517.1       REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 243 SPR RS03635 WP 000882517.1       REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 241 SP RS04015 WP 000882523.1        REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 378 SMU RS02690 WP 002263569.1       RDEDYEKAAYFRDQIAKYKEMQS......AKLDKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVI   454
NTDB id 85 BSU 00860 NP 387967.1             QSQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVI   511
NTDB id 610 V4T04 RS10165 WP 012897346.1     IKLDIKASRTKEKAVEKIADKIYKFS.....VKEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVV   520
NTDB id 287 SP RS11210 WP 001109712.1        MDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 290 KZH43 RS10025 WP 001109677.1     MDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 289 SPD RS10700 WP 001109677.1       MDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 377 SMU RS09275 WP 002262344.1       ITNDYQLAKRLLKKEK.........K.....PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVI   518
NTDB id 297 STER RS00545 WP 011680614.1      ISGDIGAAVKQYKANQ.........K.....AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVI   521
NTDB id 329 STU RS10020 WP 011225298.1       ISGDIGAAVKQYKANQ.........K.....AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVI   521
consensus                                     * **  **       *  *           *      ****  *  **   * *!*  *   *   ****  *!  *!*

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NTDB id 601 KW2 RS02615 WP 021036805.1        GQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGPTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAPP   527
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  GQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPP   533
NTDB id 281 KZH43 RS03550 WP 000882517.1     GQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPP   533
NTDB id 245 SPD RS03860 WP 000882517.1       GQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPP   533
NTDB id 243 SPR RS03635 WP 000882517.1       GQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPP   533
NTDB id 241 SP RS04015 WP 000882523.1        GQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPP   533
NTDB id 378 SMU RS02690 WP 002263569.1       GQDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAPP   534
NTDB id 85 BSU 00860 NP 387967.1             GQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPP   591
NTDB id 610 V4T04 RS10165 WP 012897346.1     GQEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAPP   600
NTDB id 287 SP RS11210 WP 001109712.1        GQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   595
NTDB id 290 KZH43 RS10025 WP 001109677.1     GQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   595
NTDB id 289 SPD RS10700 WP 001109677.1       GQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   595
NTDB id 377 SMU RS09275 WP 002262344.1       GQDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   598
NTDB id 297 STER RS00545 WP 011680614.1      GQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPP   601
NTDB id 329 STU RS10020 WP 011225298.1       GQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPP   601
consensus                                    !!*!*!*  *  *!*!!** !* *  !!*!!!*!*!!!!!!!!!!** !!  *!* ** **!*!!!!*!!!*   *!*!*!!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1        GYVGYEEAGQLTERVRRNPYSLILLDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGK..VEASV   605
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  GYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASV   611
NTDB id 281 KZH43 RS03550 WP 000882517.1     GYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASV   611
NTDB id 245 SPD RS03860 WP 000882517.1       GYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASV   611
NTDB id 243 SPR RS03635 WP 000882517.1       GYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASV   611
NTDB id 241 SP RS04015 WP 000882523.1        GYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASV   611
NTDB id 378 SMU RS02690 WP 002263569.1       GYVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANV   612
NTDB id 85 BSU 00860 NP 387967.1             GYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYV   671
NTDB id 610 V4T04 RS10165 WP 012897346.1     GYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTV   680
NTDB id 287 SP RS11210 WP 001109712.1        GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTV   675
NTDB id 290 KZH43 RS10025 WP 001109677.1     GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTV   675
NTDB id 289 SPD RS10700 WP 001109677.1       GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTV   675
NTDB id 377 SMU RS09275 WP 002262344.1       GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTV   678
NTDB id 297 STER RS00545 WP 011680614.1      GYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTV   681
NTDB id 329 STU RS10020 WP 011225298.1       GYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTV   681
consensus                                    !!!!!*!*!*!!!*!!   !!!**!*!!*!!!!!!*  * !!*!*!! *!!  !! ! !* ***!!!!! !      * *!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1        GFGAAREG.....RTKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKL   680
NTDB id 69317 MDRSPN RS06155 WP 000882517.1  GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 281 KZH43 RS03550 WP 000882517.1     GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 245 SPD RS03860 WP 000882517.1       GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 243 SPR RS03635 WP 000882517.1       GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 241 SP RS04015 WP 000882523.1        GFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 378 SMU RS02690 WP 002263569.1       GFGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKL   687
NTDB id 85 BSU 00860 NP 387967.1             GFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKV   751
NTDB id 610 V4T04 RS10165 WP 012897346.1     GFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLI   760
NTDB id 287 SP RS11210 WP 001109712.1        GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLL   755
NTDB id 290 KZH43 RS10025 WP 001109677.1     GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLL   755
NTDB id 289 SPD RS10700 WP 001109677.1       GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLL   755
NTDB id 377 SMU RS09275 WP 002262344.1       GFGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHL   758
NTDB id 297 STER RS00545 WP 011680614.1      GFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHL   761
NTDB id 329 STU RS10020 WP 011225298.1       GFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHL   761
consensus                                    !!**            ** *!   * !!!*!! !  * !  !* ***  *! *!*  *   *  * * * **  *   *
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logo

NTDB id 601 KW2 RS02615 WP 021036805.1          VDLGYNPAMGARPLRRTIQENIEDSIADFYLEHPEYKQ.LVADLIDDKIVISNQTQETAETTDEEVPAE   748
NTDB id 69317 MDRSPN RS06155 WP 000882517.1    VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKKA.EVKSSEKEK.   752
NTDB id 281 KZH43 RS03550 WP 000882517.1       VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKKA.EVKSSEKEK.   752
NTDB id 245 SPD RS03860 WP 000882517.1         VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKKA.EVKSSEKEK.   752
NTDB id 243 SPR RS03635 WP 000882517.1         VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKKA.EVKSSEKEK.   752
NTDB id 241 SP RS04015 WP 000882523.1          VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGNIQIKSAKKA.EVKSSEKEK.   752
NTDB id 378 SMU RS02690 WP 002263569.1         VDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKE.LKAIMTSNGKIVIKASNKV.ETVTKATSD.   753
NTDB id 85 BSU 00860 NP 387967.1               AEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN..........   810
NTDB id 610 V4T04 RS10165 WP 012897346.1       AEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.............   816
NTDB id 287 SP RS11210 WP 001109712.1          ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQLKFDIA..............   810
NTDB id 290 KZH43 RS10025 WP 001109677.1       ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..............   810
NTDB id 289 SPD RS10700 WP 001109677.1         ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..............   810
NTDB id 377 SMU RS09275 WP 002262344.1         ALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV..............   813
NTDB id 297 STER RS00545 WP 011680614.1        AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV..............   816
NTDB id 329 STU RS10020 WP 011225298.1         AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV..............   816
consensus                                       * !*** *!!!!!!***!  *!! ***  *        ** *  * * *
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X non conserved

X similar

X $\geq$ 50% conserved