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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          ..........................................MLCQNCNINEA.............................    11
NTDB id 378 SMU RS02690 WP 002263569.1          ..........................................MLCQNCKLNEA.............................    11
NTDB id 241 SP RS04015 WP 000882523.1           ..........................................MLCQNCKINDS.............................    11
NTDB id 281 KZH43 RS03550 WP 000882517.1        ..........................................MLCQNCKINDS.............................    11
NTDB id 245 SPD RS03860 WP 000882517.1          ..........................................MLCQNCKINDS.............................    11
NTDB id 243 SPR RS03635 WP 000882517.1          ..........................................MLCQNCKINDS.............................    11
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   ..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGIAAKALIALGLSPEKVQKEVEALIG........R    70
NTDB id 85 BSU 00860 NP 387967.1                ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG........R    70
NTDB id 610 V4T04 RS10165 WP 012897346.1        MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDL........EDLSSH    72
NTDB id 290 KZH43 RS10025 WP 001109677.1        .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS    70
NTDB id 289 SPD RS10700 WP 001109677.1          .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYS    70
NTDB id 287 SP RS11210 WP 001109712.1           .....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                                           **             *       * * *** ***     **

logo
NTDB id 601 KW2 RS02615 WP 021036805.1          ...TIHLYTSVNGQKKQIDLCQNCYQI...MKSGGQEALFGAGNASNGNSDE............PFNP.FNDIFSALQGQ    72
NTDB id 378 SMU RS02690 WP 002263569.1          ...TIHLYANVNGQQKQIDLCQNCYQI...MKTDPENGPLNHLSQQNSSS...............INPFFDDFFGDLNNF    70
NTDB id 241 SP RS04015 WP 000882523.1           ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 281 KZH43 RS03550 WP 000882517.1        ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 245 SPD RS03860 WP 000882517.1          ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 243 SPR RS03635 WP 000882517.1          ...TIHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD...............FDP.FGDFFNDLNNF    69
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   GTEASQTVHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQ..LLGSNE..   146
NTDB id 85 BSU 00860 NP 387967.1                GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQ..LLGSNE..   146
NTDB id 610 V4T04 RS10165 WP 012897346.1        VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLLKL.........QKINIVSLRKELEKR   143
NTDB id 290 KZH43 RS10025 WP 001109677.1        QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER   150
NTDB id 289 SPD RS10700 WP 001109677.1          QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEER   150
NTDB id 287 SP RS11210 WP 001109712.1           QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEER   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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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          .DFNGAASNQ.....TPPTQTGG..........RGPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRV   136
NTDB id 378 SMU RS02690 WP 002263569.1          RAFNNQDLPN.....TPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRV   143
NTDB id 241 SP RS04015 WP 000882523.1           RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 281 KZH43 RS03550 WP 000882517.1        RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 245 SPD RS03860 WP 000882517.1          RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 243 SPR RS03635 WP 000882517.1          RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV   142
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   ..................................ASSGHQGGSSTNANTPTLDSLARDLTVVARENRLDPVIGRGKEIQRV   193
NTDB id 85 BSU 00860 NP 387967.1                ..................................TGSSA.AGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRV   192
NTDB id 610 V4T04 RS10165 WP 012897346.1        TGLKVPESKKAVTPMSKRKMAKG..................VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRL   205
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 287 SP RS11210 WP 001109712.1           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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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKRN   216
NTDB id 378 SMU RS02690 WP 002263569.1          IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQRQ   223
NTDB id 241 SP RS04015 WP 000882523.1           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 1045582 AAEM72 RS00685 WP 000971179.1   IEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIVNNEVPETLRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAG   273
NTDB id 85 BSU 00860 NP 387967.1                IEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAG   272
NTDB id 610 V4T04 RS10165 WP 012897346.1        IHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDP   285
NTDB id 290 KZH43 RS10025 WP 001109677.1        IQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDG   298
NTDB id 289 SPD RS10700 WP 001109677.1          IQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDG   298
NTDB id 287 SP RS11210 WP 001109712.1           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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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          DVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITIL   295
NTDB id 378 SMU RS02690 WP 002263569.1          DVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITIL   302
NTDB id 241 SP RS04015 WP 000882523.1           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 1045582 AAEM72 RS00685 WP 000971179.1   NIILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIHVDEPSLDESTQIL   352
NTDB id 85 BSU 00860 NP 387967.1                NIILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQIL   351
NTDB id 610 V4T04 RS10165 WP 012897346.1        DVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAIL   365
NTDB id 290 KZH43 RS10025 WP 001109677.1        QVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL   378
NTDB id 289 SPD RS10700 WP 001109677.1          QVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL   378
NTDB id 287 SP RS11210 WP 001109712.1           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                                        ***!!!!*!***!*!** *  *!!*!!!!!*!!!!*****!!!!  !! * !!!!*!!*!!   * ***!*******!!

logo
NTDB id 601 KW2 RS02615 WP 021036805.1          RGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLKFV..DPEDINRRIADAENKKNEAT   373
NTDB id 378 SMU RS02690 WP 002263569.1          KGIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQAT   380
NTDB id 241 SP RS04015 WP 000882523.1           KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT   379
NTDB id 281 KZH43 RS03550 WP 000882517.1        KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT   379
NTDB id 245 SPD RS03860 WP 000882517.1          KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT   379
NTDB id 243 SPR RS03635 WP 000882517.1          KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQAT   379
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   KGLRDRYEAHHRVSITDDAIDAAVKLSDRYITDRFLPDKAIDLIDEAASKVRLRSYTTPPNLKELEVKLEEIRKEKDAAV   432
NTDB id 85 BSU 00860 NP 387967.1                QGLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAV   431
NTDB id 610 V4T04 RS10165 WP 012897346.1        QGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAV   445
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 287 SP RS11210 WP 001109712.1           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 378 SMU RS02690 WP 002263569.1          RDEDYEKAAYFRDQIAKYKEMQS......AKLDKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVI   454
NTDB id 241 SP RS04015 WP 000882523.1           REEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   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 1045582 AAEM72 RS00685 WP 000971179.1   QSQEFEKAASLRDMEQRLREKLEDTKRQWKEQQGKENSEVTVEDIANVVSTWTRIPVSKLAQTETDKLLNLESILHDRVI   512
NTDB id 85 BSU 00860 NP 387967.1                QSQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVI   511
NTDB id 610 V4T04 RS10165 WP 012897346.1        IKLDIKASRTKEKAVEKIADKIYKFS.....VKEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVV   520
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 287 SP RS11210 WP 001109712.1           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 378 SMU RS02690 WP 002263569.1          GQDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAPP   534
NTDB id 241 SP RS04015 WP 000882523.1           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 1045582 AAEM72 RS00685 WP 000971179.1   GQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESMFGDEDAMIRIDMSEYMEKHSTSRLVGSPP   592
NTDB id 85 BSU 00860 NP 387967.1                GQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPP   591
NTDB id 610 V4T04 RS10165 WP 012897346.1        GQEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAPP   600
NTDB id 290 KZH43 RS10025 WP 001109677.1        GQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   595
NTDB id 289 SPD RS10700 WP 001109677.1          GQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPP   595
NTDB id 287 SP RS11210 WP 001109712.1           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 378 SMU RS02690 WP 002263569.1          GYVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANV   612
NTDB id 241 SP RS04015 WP 000882523.1           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 1045582 AAEM72 RS00685 WP 000971179.1   GYVGYEEGGQLTEKVRRKPYSVVLLDEVEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTIVIMTSNVGAEALKRNKHL   672
NTDB id 85 BSU 00860 NP 387967.1                GYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYV   671
NTDB id 610 V4T04 RS10165 WP 012897346.1        GYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTV   680
NTDB id 290 KZH43 RS10025 WP 001109677.1        GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTV   675
NTDB id 289 SPD RS10700 WP 001109677.1          GYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTV   675
NTDB id 287 SP RS11210 WP 001109712.1           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                                       !!!!!*!*!*!!!*!! *!!!**!*!!*!!!!!!*****!!*!*!! *!!**!! !*!*****!!!!!*!*  ** ****

logo
NTDB id 601 KW2 RS02615 WP 021036805.1          GFGAAREGR.....TKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKL   680
NTDB id 378 SMU RS02690 WP 002263569.1          GFGASREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKL   687
NTDB id 241 SP RS04015 WP 000882523.1           GFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 281 KZH43 RS03550 WP 000882517.1        GFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 245 SPD RS03860 WP 000882517.1          GFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 243 SPR RS03635 WP 000882517.1          GFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKL   686
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   GFNVQDESRDYSDMKGKVMDELKKAFRPEFLNRIDEIIVFHMLEKKHIQEIVTLMVNQLVNRLKEQEIELHLTEGAISAI   752
NTDB id 85 BSU 00860 NP 387967.1                GFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKV   751
NTDB id 610 V4T04 RS10165 WP 012897346.1        GFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLI   760
NTDB id 290 KZH43 RS10025 WP 001109677.1        GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLL   755
NTDB id 289 SPD RS10700 WP 001109677.1          GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLL   755
NTDB id 287 SP RS11210 WP 001109712.1           GFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLL   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          VDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQLV.ADLIDDKIVISNQTQETAETTDEEVPAE   748
NTDB id 378 SMU RS02690 WP 002263569.1          VDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKELK.AIMTSNGKIVIKASNK.VETVTKATSD.   753
NTDB id 241 SP RS04015 WP 000882523.1           VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKK.AEVKSSEKEK.   752
NTDB id 281 KZH43 RS03550 WP 000882517.1        VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKK.AEVKSSEKEK.   752
NTDB id 245 SPD RS03860 WP 000882517.1          VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKK.AEVKSSEKEK.   752
NTDB id 243 SPR RS03635 WP 000882517.1          VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKK.AEVKSSEKEK.   752
NTDB id 1045582 AAEM72 RS00685 WP 000971179.1   ADKGFDREYGARPLRRAIQKHVEDRLSEELLKGAIEKGQKVIFDVEGESFVIHSAEKVK..........   811
NTDB id 85 BSU 00860 NP 387967.1                AEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN..........   810
NTDB id 610 V4T04 RS10165 WP 012897346.1        AEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.............   816
NTDB id 290 KZH43 RS10025 WP 001109677.1        ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..............   810
NTDB id 289 SPD RS10700 WP 001109677.1          ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..............   810
NTDB id 287 SP RS11210 WP 001109712.1           ANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQLKFDIA..............   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