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logo
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 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 329 STU RS10020 WP 011225298.1        ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS  76
NTDB id 297 STER RS00545 WP 011680614.1       ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS  76
NTDB id 85 BSU 00860 NP 387967.1              MMFG..RFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESL........IGR  70
NTDB id 371497 FLP15 RS06120 WP 142767445.1   MKFENIEYTTTVEQILDKAAEYAYYYQYGAIESAHILAAMTTTAGSIAFSVLAGMKVDSSDLLIDVEDL........SSH  72
NTDB id 610 V4T04 RS10165 WP 012897346.1      MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDLEDL........SSH  72
consensus                                        **  *       *   *  *    *** *** ***    ***
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logo
NTDB id 378 SMU RS02690 WP 002263569.1        ...TIHLYANVNGQQKQIDL...............CQNCYQIMKTDPENGPLNHLSQQNSSSI.......NPFFDDFFGD  66
NTDB id 241 SP RS04015 WP 000882523.1         ...TIHLYTNLNGKQKQIDL...............CQNCYKIIKTDPNNSLFKGMTDLNNRDF.......DP.FGDFFND  65
NTDB id 281 KZH43 RS03550 WP 000882517.1      ...TIHLYTNLNGKQKQIDL...............CQNCYKIIKTDPNNSLFKGMTDLNNRDF.......DP.FGDFFND  65
NTDB id 245 SPD RS03860 WP 000882517.1        ...TIHLYTNLNGKQKQIDL...............CQNCYKIIKTDPNNSLFKGMTDLNNRDF.......DP.FGDFFND  65
NTDB id 243 SPR RS03635 WP 000882517.1        ...TIHLYTNLNGKQKQIDL...............CQNCYKIIKTDPNNSLFKGMTDLNNRDF.......DP.FGDFFND  65
NTDB id 287 SP RS11210 WP 001109712.1         QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDS..NALAT..RILERAGFSYEDKKDQVKIAALRRN 146
NTDB id 290 KZH43 RS10025 WP 001109677.1      QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDG..NALAT..RILERAGFSYEDKKDQVKIAALRRN 146
NTDB id 289 SPD RS10700 WP 001109677.1        QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDG..NALAT..RILERAGFSYEDKKDQVKIAALRRN 146
NTDB id 377 SMU RS09275 WP 002262344.1        N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNP..NLLAT..RILELVGFHAKDDGESIRLLDLRKV 150
NTDB id 329 STU RS10020 WP 011225298.1        ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHK..DLMVC..RLLEVAGFQYKDDSDKPRIIDLRRS 152
NTDB id 297 STER RS00545 WP 011680614.1       ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLHK..DLMVC..RLLEVAGFQYKDDSDKPRIIDLRRS 152
NTDB id 85 BSU 00860 NP 387967.1              GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREG..EGVAA..RVLNNLGV.........SLNKARQQ 137
NTDB id 371497 FLP15 RS06120 WP 142767445.1   VVVKRENLRFSPRAEEIIQLAGLLAIHNGAKVVGTEHLLYALLQVE..DGFAL..QLLKLQKV.........NIVSVRKE 139
NTDB id 610 V4T04 RS10165 WP 012897346.1      VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVE..DGFGL..QLLKLQKI.........NIVSLRKE 139
consensus                                        **  *  ** * * *** *  **        ***********     * *     **    *          * ****
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logo
NTDB id 378 SMU RS02690 WP 002263569.1        LNNFRAFNNQDLPNTP.PTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRV 143
NTDB id 241 SP RS04015 WP 000882523.1         LNNFRPSSN..TPPIP.PTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV 142
NTDB id 281 KZH43 RS03550 WP 000882517.1      LNNFRPSSN..TPPIP.PTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV 142
NTDB id 245 SPD RS03860 WP 000882517.1        LNNFRPSSN..TPPIP.PTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV 142
NTDB id 243 SPR RS03635 WP 000882517.1        LNNFRPSSN..TPPIP.PTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRV 142
NTDB id 287 SP RS11210 WP 001109712.1         LEERAGWTREDLKAL.RQRHRTV.A......DKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM 218
NTDB id 290 KZH43 RS10025 WP 001109677.1      LEERAGWTREDLKAL.RQRHRTV.A......DKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM 218
NTDB id 289 SPD RS10700 WP 001109677.1        LEERAGWTREDLKAL.RQRHRTV.A......DKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRM 218
NTDB id 377 SMU RS09275 WP 002262344.1        IERYAGFSKEDIKAI.FEMRKPKKV......KNSSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRM 222
NTDB id 329 STU RS10020 WP 011225298.1        LERNAGLSKQDLKAI.HDLRKPKKS......KASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISRM 225
NTDB id 297 STER RS00545 WP 011680614.1       LERNAGLSKQDLKAI.HDLRKPKKS......KASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRM 225
NTDB id 85 BSU 00860 NP 387967.1              VLQLLG...........SNETGSSA......AG........TNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRV 192
NTDB id 371497 FLP15 RS06120 WP 142767445.1   LEKRTGLKIPEARKTVTPMSKRNLA......KR........VSATTTTPTLDSVSSDLTESAREGKLDPMIGREAEVERL 205
NTDB id 610 V4T04 RS10165 WP 012897346.1      LEKRTGLKVPESKKAVTPMSKRKMA......KG........VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRL 205
consensus                                     **   * *  * * *     *                     *** ** !**** **!**!* * **!*!!!* !* !*
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logo

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 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 329 STU RS10020 WP 011225298.1        IQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADG   305
NTDB id 297 STER RS00545 WP 011680614.1       IQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADG   305
NTDB id 85 BSU 00860 NP 387967.1              IEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQITNNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAG   272
NTDB id 371497 FLP15 RS06120 WP 142767445.1   IHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVAGDVPVGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDP   285
NTDB id 610 V4T04 RS10165 WP 012897346.1      IHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDP   285
consensus                                     * *!*!*!!!!!!!*!**!!!!*!* *!!!!*!* **!!   *   *** !*****!*!!**!!*!!*!** *****   *
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logo

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 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 329 STU RS10020 WP 011225298.1        KIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDIL   385
NTDB id 297 STER RS00545 WP 011680614.1       KIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDIL   385
NTDB id 85 BSU 00860 NP 387967.1              NIILFIDELHTLIGAGGAE.GAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQIL   351
NTDB id 371497 FLP15 RS06120 WP 142767445.1   DVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMIGATTYHEYQKYIEKDEALERRLARINVEEPTVDEAIAIL   365
NTDB id 610 V4T04 RS10165 WP 012897346.1      DVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAIL   365
consensus                                      ***!!!!*!***!*!***** *!!*!!!!!*!!!!*****!!!!   !!**  !!!!*!!*!!  ***  ***!*******!!
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logo

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 287 SP RS11210 WP 001109712.1         QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAATVQNKAKHVKADDSDL........SPADKAL   450
NTDB id 290 KZH43 RS10025 WP 001109677.1      QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAATVQNKAKHVKADDSDL........SPADKAL   450
NTDB id 289 SPD RS10700 WP 001109677.1        QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAATVQNKAKHVKADDSDL........SPADKAL   450
NTDB id 377 SMU RS09275 WP 002262344.1        LGLKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL........TDLDHAL   452
NTDB id 329 STU RS10020 WP 011225298.1        NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKREI........TPLDEAL   455
NTDB id 297 STER RS00545 WP 011680614.1       NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKREI........TPLDEAL   455
NTDB id 85 BSU 00860 NP 387967.1              QGLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAV   431
NTDB id 371497 FLP15 RS06120 WP 142767445.1   QGLKEKFEDYHKVAFTDEAIKSAVTLSVRYMTNRKLPDKAIDLLDEAAASVKISVKNQQTKRLELEKELTEAKKELADSV   445
NTDB id 610 V4T04 RS10165 WP 012897346.1      QGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAV   445
consensus                                     *!** **!**! !  *! !** !* ** !!** * !!!*!!!!*!!!** *** ** *  * ****  * *       **
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logo
NTDB id 378 SMU RS02690 WP 002263569.1        RDEDYEKAAYFRDQIAKYKEMQSAKL......DKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVI   454
NTDB id 241 SP RS04015 WP 000882523.1         REEDFEKAAYFRDQIAKYKEMQKKKI......TDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 281 KZH43 RS03550 WP 000882517.1      REEDFEKAAYFRDQIAKYKEMQKKKI......TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 245 SPD RS03860 WP 000882517.1        REEDFEKAAYFRDQIAKYKEMQKKKI......TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 243 SPR RS03635 WP 000882517.1        REEDFEKAAYFRDQIAKYKEMQKKKI......TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVI   453
NTDB id 287 SP RS11210 WP 001109712.1         MDGKWKQAAQLIAKEEE...............VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 290 KZH43 RS10025 WP 001109677.1      MDGKWKQAAQLIAKEEE...............VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 289 SPD RS10700 WP 001109677.1        MDGKWKQAAQLIAKEEE...............VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVI   515
NTDB id 377 SMU RS09275 WP 002262344.1        ITNDYQLAKRLLKKEKK...............PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVI   518
NTDB id 329 STU RS10020 WP 011225298.1        ISGDIGAAVKQYKANQK...............AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVI   521
NTDB id 297 STER RS00545 WP 011680614.1       ISGDIGAAVKQYKANQK...............AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVI   521
NTDB id 85 BSU 00860 NP 387967.1              QSQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVI   511
NTDB id 371497 FLP15 RS06120 WP 142767445.1   IQLDVKSSRE....KEKVVQKIADKINKFSV.STDKKQEVTDKAVIAVASTLTGVPITQMTKSESERLIKLEQELHKRVV   520
NTDB id 610 V4T04 RS10165 WP 012897346.1      IKLDIKASRT....KEKAVEKIADKIYKFSV.KEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVV   520
consensus                                     ** **  **       *                 ****  ** *** ****!*  ** **  ****** *!***!*
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logo
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 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 329 STU RS10020 WP 011225298.1        GQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPP   601
NTDB id 297 STER RS00545 WP 011680614.1       GQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPP   601
NTDB id 85 BSU 00860 NP 387967.1              GQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPP   591
NTDB id 371497 FLP15 RS06120 WP 142767445.1   GQEEAISAVSRAIRRARSGVSDSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDSMIRVDMSEYMEKHSTSRLIGAPP   600
NTDB id 610 V4T04 RS10165 WP 012897346.1      GQEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAPP   600
consensus                                     !!**!** ***!*!!***!* * *!!*!!!*!*!!!!!!!!!!**!!* *!* ** **!*!!!!*!!!*   **!*!*!!
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logo
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 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 329 STU RS10020 WP 011225298.1        GYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTV   681
NTDB id 297 STER RS00545 WP 011680614.1       GYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTV   681
NTDB id 85 BSU 00860 NP 387967.1              GYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYV   671
NTDB id 371497 FLP15 RS06120 WP 142767445.1   GYVGYDEGGQLTERVRNKPYSVILLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTV   680
NTDB id 610 V4T04 RS10165 WP 012897346.1      GYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTV   680
consensus                                     !!!!!*!*!*!!!*!!**!!!**!*!!*!!!!!!*****!!*!*!! *!!**!!*!*!***!*!!!!!*!********!
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logo
NTDB id 378 SMU RS02690 WP 002263569.1        GFGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKL   687
NTDB id 241 SP RS04015 WP 000882523.1         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 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 329 STU RS10020 WP 011225298.1        GFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHL   761
NTDB id 297 STER RS00545 WP 011680614.1       GFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHL   761
NTDB id 85 BSU 00860 NP 387967.1              GFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKV   751
NTDB id 371497 FLP15 RS06120 WP 142767445.1   GFGAKDISADYKAMKARILEELKRHYRPEFLNRIDETIVFHSLATHEIEQIVKIMSKSLIKRLSEQKVHIKLTSAAAKLI   760
NTDB id 610 V4T04 RS10165 WP 012897346.1      GFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLI   760
consensus                                     !!**          *  ****!!** **!!!*!!*!* **!**!* * *  *!**!*  ** *! ** * ****  * * *

logo
NTDB id 378 SMU RS02690 WP 002263569.1        VDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKELK.AIMTSNGKIVIKASNKVETVTKATSD   753
NTDB id 241 SP RS04015 WP 000882523.1         VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 281 KZH43 RS03550 WP 000882517.1      VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 245 SPD RS03860 WP 000882517.1        VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 243 SPR RS03635 WP 000882517.1        VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
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 329 STU RS10020 WP 011225298.1        AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV............   816
NTDB id 297 STER RS00545 WP 011680614.1       AKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV............   816
NTDB id 85 BSU 00860 NP 387967.1              AEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN........   810
NTDB id 371497 FLP15 RS06120 WP 142767445.1   AEVGFDPEYGARPLRKALQREVEDVLSEQLLTGEIKAGDSISIGAANKKIKITHII............   816
NTDB id 610 V4T04 RS10165 WP 012897346.1      AEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV............   816
consensus                                     **  !*!***!!!!!!***!  *!! *** *! * *  *  * ** * * * *
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X non conserved

X similar

X $\geq$ 50% conserved