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logo
NTDB id 241 SP RS04015 WP 000882523.1          ..........................................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 378 SMU RS02690 WP 002263569.1         ..........................................MLCQNCKLNEAT.............................  12
NTDB id 85 BSU 00860 NP 387967.1               ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG........R  70
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 414662 GU336 RS10345 WP 096039507.1    ...MTQNYTHILEDILKTARVFAAGNGYDYAETSHVLAGMLSSNDSFGQNILTDHDVTIEMALDEIEQHQL.......PE  70
NTDB id 610 V4T04 RS10165 WP 012897346.1       MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDLEDLSS........H  72
consensus                                                 **  *       *   *        *** *** ***    ***  *
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logo
NTDB id 241 SP RS04015 WP 000882523.1          .......IHLYTN..........LNG..KQKQIDLCQNCYKIIKTDPNNSLFKGMTDLN.....NRDFDP.FGDFFNDLN  67
NTDB id 281 KZH43 RS03550 WP 000882517.1       .......IHLYTN..........LNG..KQKQIDLCQNCYKIIKTDPNNSLFKGMTDLN.....NRDFDP.FGDFFNDLN  67
NTDB id 245 SPD RS03860 WP 000882517.1         .......IHLYTN..........LNG..KQKQIDLCQNCYKIIKTDPNNSLFKGMTDLN.....NRDFDP.FGDFFNDLN  67
NTDB id 243 SPR RS03635 WP 000882517.1         .......IHLYTN..........LNG..KQKQIDLCQNCYKIIKTDPNNSLFKGMTDLN.....NRDFDP.FGDFFNDLN  67
NTDB id 378 SMU RS02690 WP 002263569.1         .......IHLYAN..........VNG..QQKQIDLCQNCYQIMKTDPENGPLNHLSQQN.....SSSINPFFDDFFGDLN  68
NTDB id 85 BSU 00860 NP 387967.1               GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIR.EGEG.VAARVLNNLGVSLNKARQQV.........L 139
NTDB id 287 SP RS11210 WP 001109712.1          QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILH.DSNA.LATRILERAGFSYEDKKDQVKIAALRRNLE 148
NTDB id 290 KZH43 RS10025 WP 001109677.1       QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILH.DGNA.LATRILERAGFSYEDKKDQVKIAALRRNLE 148
NTDB id 289 SPD RS10700 WP 001109677.1         QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILH.DGNA.LATRILERAGFSYEDKKDQVKIAALRRNLE 148
NTDB id 377 SMU RS09275 WP 002262344.1         N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLL.NPNL.LATRILELVGFHAKDDGESIRLLDLRKVIE 152
NTDB id 329 STU RS10020 WP 011225298.1         ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLL.HKDL.MVCRLLEVAGFQYKDDSDKPRIIDLRRSLE 154
NTDB id 297 STER RS00545 WP 011680614.1        ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLL.HKDL.MVCRLLEVAGFQYKDDSDKPRIIDLRRSLE 154
NTDB id 414662 GU336 RS10345 WP 096039507.1    KMQTVQNIQFSPKVEQLLLEADALAAQNHLAETGSEHLLYVILT.DDDN.VAKKLLELN.........KIKITEIVKDLI 139
NTDB id 610 V4T04 RS10165 WP 012897346.1       VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQ.VEDG.FGLQLLKLQ.........KINIVSLRKELE 141
consensus                                             *  *     *   *  **     * ***********  * *  *  *****              * ** * *
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logo
NTDB id 241 SP RS04015 WP 000882523.1          NFRPSSN....TPPIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVI 143
NTDB id 281 KZH43 RS03550 WP 000882517.1       NFRPSSN....TPPIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVI 143
NTDB id 245 SPD RS03860 WP 000882517.1         NFRPSSN....TPPIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVI 143
NTDB id 243 SPR RS03635 WP 000882517.1         NFRPSSN....TPPIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVI 143
NTDB id 378 SMU RS02690 WP 002263569.1         NFRAFNNQ..DLPNTPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVI 144
NTDB id 85 BSU 00860 NP 387967.1               QLLGSNET............GSSAAG...............TNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVI 193
NTDB id 287 SP RS11210 WP 001109712.1          ERAGWTRE..DLKALRQRHRTV.ADK......QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMI 219
NTDB id 290 KZH43 RS10025 WP 001109677.1       ERAGWTRE..DLKALRQRHRTV.ADK......QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMI 219
NTDB id 289 SPD RS10700 WP 001109677.1         ERAGWTRE..DLKALRQRHRTV.ADK......QNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMI 219
NTDB id 377 SMU RS09275 WP 002262344.1         RYAGFSKE..DIKAIFEMRKPKKVKN......SSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMV 223
NTDB id 329 STU RS10020 WP 011225298.1         RNAGLSKQ..DLKAIHDLRKPKKSKA......SANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISRMI 226
NTDB id 297 STER RS00545 WP 011680614.1        RNAGLSKQ..DLKAIHDLRKPKKSKA......SANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMI 226
NTDB id 414662 GU336 RS10345 WP 096039507.1    ELGNMNVKKIAKKAVTPMGKRDIASG...............VAATSITPTLDSVARDVTEDARQGRIDPMIGRDKEIERVI 205
NTDB id 610 V4T04 RS10165 WP 012897346.1       KRTGLKVP.ESKKAVTPMSKRKMAKG...............VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRLI 206
consensus                                         * *       ***    *      *                *** ** !***  **!**!* * **!*!!!* !! !**
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NTDB id 241 SP RS04015 WP 000882523.1        EILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRED   223
NTDB id 281 KZH43 RS03550 WP 000882517.1     EILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRED   223
NTDB id 245 SPD RS03860 WP 000882517.1       EILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRED   223
NTDB id 243 SPR RS03635 WP 000882517.1       EILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKRED   223
NTDB id 378 SMU RS02690 WP 002263569.1       EILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQRQD   224
NTDB id 85 BSU 00860 NP 387967.1             EVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAGN   273
NTDB id 287 SP RS11210 WP 001109712.1        QILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQ   299
NTDB id 290 KZH43 RS10025 WP 001109677.1     QILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQ   299
NTDB id 289 SPD RS10700 WP 001109677.1       QILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQ   299
NTDB id 377 SMU RS09275 WP 002262344.1       QILSRKTKNNPVLVGDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEADGH   303
NTDB id 329 STU RS10020 WP 011225298.1       QVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGK   306
NTDB id 297 STER RS00545 WP 011680614.1      QVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGK   306
NTDB id 414662 GU336 RS10345 WP 096039507.1 HILSRRTKNNPVLVGEPGVGKSAIIEGLAQRMIDGNIPANMQGVRLMSLNIANVVAGTKFRGEFEDRMTAIVDEVSQDAN   285
NTDB id 610 V4T04 RS10165 WP 012897346.1     HILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPD   286
consensus                                     *!*!*!!!!!!!*!**!!!!*!* *!!!!*** ***!   *   *** !*****!*!!**!!*!!*!** *****   **
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logo
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NTDB id 241 SP RS04015 WP 000882523.1        IILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILK   302
NTDB id 281 KZH43 RS03550 WP 000882517.1     IILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILK   302
NTDB id 245 SPD RS03860 WP 000882517.1       IILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILK   302
NTDB id 243 SPR RS03635 WP 000882517.1       IILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILK   302
NTDB id 378 SMU RS02690 WP 002263569.1       VILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILK   303
NTDB id 85 BSU 00860 NP 387967.1             IILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQ   352
NTDB id 287 SP RS11210 WP 001109712.1        VILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQ   379
NTDB id 290 KZH43 RS10025 WP 001109677.1     VILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQ   379
NTDB id 289 SPD RS10700 WP 001109677.1       VILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQ   379
NTDB id 377 SMU RS09275 WP 002262344.1       IVLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILL   383
NTDB id 329 STU RS10020 WP 011225298.1       IILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILN   386
NTDB id 297 STER RS00545 WP 011680614.1      IILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILN   386
NTDB id 414662 GU336 RS10345 WP 096039507.1 TIVFVDELHTIVGAGGGTDSVTDASNIMKPALARGEFQLIGATTFNEYQKYIEKDAALERRFAKVTVEEPSSDESIVILQ   365
NTDB id 610 V4T04 RS10165 WP 012897346.1     VIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQ   366
consensus                                    ***!*!!*!***!*!** ** *!!*!!*!!*!!!!*****!!!!   !!** !!!!*!!*!!**** ***!*******!!*
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NTDB id 241 SP RS04015 WP 000882523.1        GIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATR   380
NTDB id 281 KZH43 RS03550 WP 000882517.1     GIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATR   380
NTDB id 245 SPD RS03860 WP 000882517.1       GIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATR   380
NTDB id 243 SPR RS03635 WP 000882517.1       GIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATR   380
NTDB id 378 SMU RS02690 WP 002263569.1       GIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKEIDHRLIEAENLKAQATR   381
NTDB id 85 BSU 00860 NP 387967.1             GLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQ   432
NTDB id 287 SP RS11210 WP 001109712.1        GLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVGNKAKHVKADDSD........LSPADKALM   451
NTDB id 290 KZH43 RS10025 WP 001109677.1     GLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVGNKAKHVKADDSD........LSPADKALM   451
NTDB id 289 SPD RS10700 WP 001109677.1       GLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVGNKAKHVKADDSD........LSPADKALM   451
NTDB id 377 SMU RS09275 WP 002262344.1       GLKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVGGLVKK..KAPAY........LTDLDHALI   453
NTDB id 329 STU RS10020 WP 011225298.1       GLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKRE........ITPLDEALI   456
NTDB id 297 STER RS00545 WP 011680614.1      GLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKRE........ITPLDEALI   456
NTDB id 414662 GU336 RS10345 WP 096039507.1 GLQSKFEAFHQVNFDADAVKAAVQLSVRYMPSRRLPDKAIDLLDEAAAAVKISAKNNLSEQSKLDKKASQLDEQLQEAII   445
NTDB id 610 V4T04 RS10165 WP 012897346.1     GLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAVI   446
consensus                                    !**  **!**! !* ** !***!* ** !!** * !!!*!!!!*!!!** *** **     * ****          !**
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logo

NTDB id 241 SP RS04015 WP 000882523.1        EEDFEKAAYFRDQIAKYKEMQKKK.I.....TDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 281 KZH43 RS03550 WP 000882517.1     EEDFEKAAYFRDQIAKYKEMQKKK.I.....TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 245 SPD RS03860 WP 000882517.1       EEDFEKAAYFRDQIAKYKEMQKKK.I.....TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 243 SPR RS03635 WP 000882517.1       EEDFEKAAYFRDQIAKYKEMQKKK.I.....TDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 378 SMU RS02690 WP 002263569.1       DEDYEKAAYFRDQIAKYKEMQSAK.L.....DKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVIG   455
NTDB id 85 BSU 00860 NP 387967.1             SQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVIG   512
NTDB id 287 SP RS11210 WP 001109712.1        DGKWKQAAQLIAKEEE.........V.....P.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 290 KZH43 RS10025 WP 001109677.1     DGKWKQAAQLIAKEEE.........V.....P.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 289 SPD RS10700 WP 001109677.1       DGKWKQAAQLIAKEEE.........V.....P.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 377 SMU RS09275 WP 002262344.1       TNDYQLAKRLLKKEKK.........P.....LLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVIG   519
NTDB id 329 STU RS10020 WP 011225298.1       SGDIGAAVKQYKANQK.........A.....KFPKPALVKDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIG   522
NTDB id 297 STER RS00545 WP 011680614.1      SGDIGAAVKQYKANQK.........A.....KFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIG   522
NTDB id 414662 GU336 RS10345 WP 096039507.1  NQDFVLAKSLNKDLQKLEAKREKLTV.....KT.KSSRVSEGDVFAVVSNLTGVPVTQMSQSEMTRLINLEKELHKRVIG   519
NTDB id 610 V4T04 RS10165 WP 012897346.1     KLDIKASRTKEKAVEKIADKIYKFSV.....KEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVVG   521
consensus                                    * **  **       *         *            ****  *  *** ****!*  *****  ****** *!***!*!

logo

NTDB id 241 SP RS04015 WP 000882523.1        QDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPG   534
NTDB id 281 KZH43 RS03550 WP 000882517.1     QDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPG   534
NTDB id 245 SPD RS03860 WP 000882517.1       QDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPG   534
NTDB id 243 SPR RS03635 WP 000882517.1       QDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPG   534
NTDB id 378 SMU RS02690 WP 002263569.1       QDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAPPG   535
NTDB id 85 BSU 00860 NP 387967.1             QDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPPG   592
NTDB id 287 SP RS11210 WP 001109712.1        QDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPG   596
NTDB id 290 KZH43 RS10025 WP 001109677.1     QDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPG   596
NTDB id 289 SPD RS10700 WP 001109677.1       QDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPG   596
NTDB id 377 SMU RS09275 WP 002262344.1       QDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPG   599
NTDB id 329 STU RS10020 WP 011225298.1       QDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPG   602
NTDB id 297 STER RS00545 WP 011680614.1      QDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPG   602
NTDB id 414662 GU336 RS10345 WP 096039507.1  QSEAVTAVASAIRRSRSGISDDRRPMGSFMFLGPTGVGKTELAKALAETVFGDENSMIRIDMSEYMEKFNTSRLVGAPPG   599
NTDB id 610 V4T04 RS10165 WP 012897346.1     QEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAPPG   601
consensus                                    !**!** * *!*!!***!* * *!!*!!!*!*!!!!!!!!!!**!!* *!***  **!*!!!!*!!!   **!*!*!!!

logo

NTDB id 241 SP RS04015 WP 000882523.1        YVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVG   612
NTDB id 281 KZH43 RS03550 WP 000882517.1     YVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVG   612
NTDB id 245 SPD RS03860 WP 000882517.1       YVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVG   612
NTDB id 243 SPR RS03635 WP 000882517.1       YVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVG   612
NTDB id 378 SMU RS02690 WP 002263569.1       YVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANVG   613
NTDB id 85 BSU 00860 NP 387967.1             YVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVG   672
NTDB id 287 SP RS11210 WP 001109712.1        YVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVG   676
NTDB id 290 KZH43 RS10025 WP 001109677.1     YVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVG   676
NTDB id 289 SPD RS10700 WP 001109677.1       YVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVG   676
NTDB id 377 SMU RS09275 WP 002262344.1       YVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVG   679
NTDB id 329 STU RS10020 WP 011225298.1       YVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVG   682
NTDB id 297 STER RS00545 WP 011680614.1      YVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVG   682
NTDB id 414662 GU336 RS10345 WP 096039507.1  YVGYDEGGQLTEQVRNKPYAVVLFDEAEKAHPDVFNLLLQILDDGFITDGKGRKVDFRNTIIIMTSNLGATSLRDDKTVG   679
NTDB id 610 V4T04 RS10165 WP 012897346.1     YVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTVG   681
consensus                                    !!!!*!*!*!!!*!!**!!***!  !!*!!!!!!*****!!*!*!!  *!!**!!*!*!***!*!!!!!*!**  ******!!
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logo

NTDB id 241 SP RS04015 WP 000882523.1          FGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 281 KZH43 RS03550 WP 000882517.1       FGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 245 SPD RS03860 WP 000882517.1         FGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 243 SPR RS03635 WP 000882517.1         FGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 378 SMU RS02690 WP 002263569.1         FGASREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKLV   688
NTDB id 85 BSU 00860 NP 387967.1               FNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKVA   752
NTDB id 287 SP RS11210 WP 001109712.1          FGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLLA   756
NTDB id 290 KZH43 RS10025 WP 001109677.1       FGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLA   756
NTDB id 289 SPD RS10700 WP 001109677.1         FGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLA   756
NTDB id 377 SMU RS09275 WP 002262344.1         FGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLA   759
NTDB id 329 STU RS10020 WP 011225298.1         FGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHLA   762
NTDB id 297 STER RS00545 WP 011680614.1        FGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKHLA   762
NTDB id 414662 GU336 RS10345 WP 096039507.1    FGAANASTDYVAMKSRILEELKKRYRPEFLNRIDESIVFHPLSEQELSDIVKIMAKPLIKRLAERHITLKLSATAYQLIA   759
NTDB id 610 V4T04 RS10165 WP 012897346.1       FGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIA   761
consensus                                      !**          *  ****!!** **!!!*!!*!* **!* !* * *  *!**!*  ** *!*** * *****  *   **

logo

NTDB id 241 SP RS04015 WP 000882523.1          DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 281 KZH43 RS03550 WP 000882517.1       DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 245 SPD RS03860 WP 000882517.1         DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 243 SPR RS03635 WP 000882517.1         DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 378 SMU RS02690 WP 002263569.1         DLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIMTSNGKIVIKASNKVETVTKATSD   753
NTDB id 85 BSU 00860 NP 387967.1               EEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN........   810
NTDB id 287 SP RS11210 WP 001109712.1          NQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQLKFDIA............   810
NTDB id 290 KZH43 RS10025 WP 001109677.1       NQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA............   810
NTDB id 289 SPD RS10700 WP 001109677.1         NQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA............   810
NTDB id 377 SMU RS09275 WP 002262344.1         LAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV............   813
NTDB id 329 STU RS10020 WP 011225298.1         KDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV............   816
NTDB id 297 STER RS00545 WP 011680614.1        KDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV............   816
NTDB id 414662 GU336 RS10345 WP 096039507.1    KNGFEPEYGARPIRKALEKKLENPLSDKILSGEIKAGNSVTVGVSKGELTIKVID...........   814
NTDB id 610 V4T04 RS10165 WP 012897346.1       EVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV...........   816
consensus                                        !*****!!!!*!****  *!* *** *! * *  *  * ** *** * *
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X non conserved

X similar

X ≥ 50% conserved