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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 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 1137914 DQM59 RS09600 WP 002279992.1   ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS  76
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
consensus                                           **  **     *   *  *    *** *******    ***                          **
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 378 SMU RS02690 WP 002263569.1          ...TIHLYANVNGQQKQIDLC...............QNCYQIMKTDPENGPLNHLSQ.....QNSSSINPFFDDFFGDLN  68
NTDB id 241 SP RS04015 WP 000882523.1           ...TIHLYTNLNGKQKQIDLC...............QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN  67
NTDB id 281 KZH43 RS03550 WP 000882517.1        ...TIHLYTNLNGKQKQIDLC...............QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN  67
NTDB id 245 SPD RS03860 WP 000882517.1          ...TIHLYTNLNGKQKQIDLC...............QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN  67
NTDB id 243 SPR RS03635 WP 000882517.1          ...TIHLYTNLNGKQKQIDLC...............QNCYKIIKTDPNNSLFKGMTD.....LNNRDFDP.FGDFFNDLN  67
NTDB id 85 BSU 00860 NP 387967.1                GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIRE.G.EGVAARVLNNLGVSLNKARQQVLQL.......  141
NTDB id 610 V4T04 RS10165 WP 012897346.1        VKVKRSTLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQV.E.DGFGLQLLKL.........QKINIVSLRKELE  141
NTDB id 287 SP RS11210 WP 001109712.1           QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHD.S.NALATRILERAGFSYEDKKDQVKIAALRRNLE  148
NTDB id 290 KZH43 RS10025 WP 001109677.1        QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE  148
NTDB id 289 SPD RS10700 WP 001109677.1          QDETFTELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE  148
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLN.P.NLLATRILELVGFHAKDDGESIRLLDLRKVIE  152
NTDB id 377 SMU RS09275 WP 002262344.1          N..DIMLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLN.P.NLLATRILELVGFHAKDDGESIRLLDLRKVIE  152
NTDB id 329 STU RS10020 WP 011225298.1          ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLH.K.DLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLE  154
NTDB id 297 STER RS00545 WP 011680614.1         ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLH.K.DLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLE  154
consensus                                          ** *  ** * ** ** *  *        ***********     * *  ****  *          * **** **
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 378 SMU RS02690 WP 002263569.1          NFRAFNNQDLPN.TPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIE  145
NTDB id 241 SP RS04015 WP 000882523.1           NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIE  144
NTDB id 281 KZH43 RS03550 WP 000882517.1        NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIE  144
NTDB id 245 SPD RS03860 WP 000882517.1          NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIE  144
NTDB id 243 SPR RS03635 WP 000882517.1          NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIE  144
NTDB id 85 BSU 00860 NP 387967.1                ..LGSNET.......................GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIE  194
NTDB id 610 V4T04 RS10165 WP 012897346.1        KRTGLKVPESKKAVTPMSKRKM......AKG........VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRLIH  207
NTDB id 287 SP RS11210 WP 001109712.1           ERAGWTREDLKA.LRQRHRTV.......ADKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQ  220
NTDB id 290 KZH43 RS10025 WP 001109677.1        ERAGWTREDLKA.LRQRHRTV.......ADKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQ  220
NTDB id 289 SPD RS10700 WP 001109677.1          ERAGWTREDLKA.LRQRHRTV.......ADKQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQ  220
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   RYAGFSKEDIKA.IFEMRKPKK......VKNSSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMVQ  224
NTDB id 377 SMU RS09275 WP 002262344.1          RYAGFSKEDIKA.IFEMRKPKK......VKNSSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMVQ  224
NTDB id 329 STU RS10020 WP 011225298.1          RNAGLSKQDLKA.IHDLRKPKK......SKASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISRMIQ  227
NTDB id 297 STER RS00545 WP 011680614.1         RNAGLSKQDLKA.IHDLRKPKK......SKASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIQ  227
consensus                                          * *  ***  *    *                      ****  **  !****  **!**!* *  **!*!!!* !!*!**
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logo
NTDB id 378 SMU RS02690 WP 002263569.1          ILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQRQDV   225
NTDB id 241 SP RS04015 WP 000882523.1           ILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDI   224
NTDB id 281 KZH43 RS03550 WP 000882517.1        ILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDI   224
NTDB id 245 SPD RS03860 WP 000882517.1          ILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDI   224
NTDB id 243 SPR RS03635 WP 000882517.1          ILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDI   224
NTDB id 85 BSU 00860 NP 387967.1                VLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAGNI   274
NTDB id 610 V4T04 RS10165 WP 012897346.1        ILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDV   287
NTDB id 287 SP RS11210 WP 001109712.1           ILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV   300
NTDB id 290 KZH43 RS10025 WP 001109677.1        ILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV   300
NTDB id 289 SPD RS10700 WP 001109677.1          ILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV   300
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   ILSRKTKNNPVLVGDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEADGHI   304
NTDB id 377 SMU RS09275 WP 002262344.1          ILSRKTKNNPVLVGDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEADGHI   304
NTDB id 329 STU RS10020 WP 011225298.1          VLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKI   307
NTDB id 297 STER RS00545 WP 011680614.1         VLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKI   307
consensus                                       *!*!*!!!!!!!*!* !!!!*!** !!!!*!* **!!   *   *** !*****!*!!**!!*!!*!** *****   ** *
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logo
NTDB id 378 SMU RS02690 WP 002263569.1          ILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKG   304
NTDB id 241 SP RS04015 WP 000882523.1           ILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKG   303
NTDB id 281 KZH43 RS03550 WP 000882517.1        ILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKG   303
NTDB id 245 SPD RS03860 WP 000882517.1          ILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKG   303
NTDB id 243 SPR RS03635 WP 000882517.1          ILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKG   303
NTDB id 85 BSU 00860 NP 387967.1                ILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQG   353
NTDB id 610 V4T04 RS10165 WP 012897346.1        IIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQG   367
NTDB id 287 SP RS11210 WP 001109712.1           ILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQG   380
NTDB id 290 KZH43 RS10025 WP 001109677.1        ILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQG   380
NTDB id 289 SPD RS10700 WP 001109677.1          ILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQG   380
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   VLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLG   384
NTDB id 377 SMU RS09275 WP 002262344.1          VLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLG   384
NTDB id 329 STU RS10020 WP 011225298.1          ILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILNG   387
NTDB id 297 STER RS00545 WP 011680614.1         ILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILNG   387
consensus                                       **!!!!*!***! !***** *!!*!!!!!*!!!! * **!!!!   !!** !!!!*!! !!**** ***!*******!! !
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logo
NTDB id 378 SMU RS02690 WP 002263569.1          IQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQATRD   382
NTDB id 241 SP RS04015 WP 000882523.1           IQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATRE   381
NTDB id 281 KZH43 RS03550 WP 000882517.1        IQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATRE   381
NTDB id 245 SPD RS03860 WP 000882517.1          IQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATRE   381
NTDB id 243 SPR RS03635 WP 000882517.1          IQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATRE   381
NTDB id 85 BSU 00860 NP 387967.1                LRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQS   433
NTDB id 610 V4T04 RS10165 WP 012897346.1        LREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAVIK   447
NTDB id 287 SP RS11210 WP 001109712.1           LKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMD   452
NTDB id 290 KZH43 RS10025 WP 001109677.1        LKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMD   452
NTDB id 289 SPD RS10700 WP 001109677.1          LKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMD   452
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   LKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALIT   454
NTDB id 377 SMU RS09275 WP 002262344.1          LKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALIT   454
NTDB id 329 STU RS10020 WP 011225298.1          LRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKREI....T....PLDEALIS   457
NTDB id 297 STER RS00545 WP 011680614.1         LRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKREI....T....PLDEALIS   457
consensus                                       **  *!**! ! **!*!***!***  !!** * !!! !!!!*!!!** *** ** *  * ***           * !***
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logo

NTDB id 378 SMU RS02690 WP 002263569.1          EDYEKAAYFRDQI.......AKYKEMQSAKLDKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVIG   455
NTDB id 241 SP RS04015 WP 000882523.1           EDFEKAAYFRDQI.......AKYKEMQKKKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 281 KZH43 RS03550 WP 000882517.1        EDFEKAAYFRDQI.......AKYKEMQKKKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 245 SPD RS03860 WP 000882517.1          EDFEKAAYFRDQI.......AKYKEMQKKKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 243 SPR RS03635 WP 000882517.1          EDFEKAAYFRDQI.......AKYKEMQKKKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIG   454
NTDB id 85 BSU 00860 NP 387967.1                QEFEKAASLRDTEQRLREQVEDTKKSWKE.KQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVIG   512
NTDB id 610 V4T04 RS10165 WP 012897346.1        LDIKASRTKEKAVEKIADKIYKFS......VKEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVVG   521
NTDB id 287 SP RS11210 WP 001109712.1           GKWKQAAQLIAKEE.........E......VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 290 KZH43 RS10025 WP 001109677.1        GKWKQAAQLIAKEE.........E......VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 289 SPD RS10700 WP 001109677.1          GKWKQAAQLIAKEE.........E......VP.VYKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIG   516
NTDB id 1137914 DQM59 RS09600 WP 002279992.1   NDYQLAKRLLKKEK.........K......PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVIG   519
NTDB id 377 SMU RS09275 WP 002262344.1          NDYQLAKRLLKKEK.........K......PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVIG   519
NTDB id 329 STU RS10020 WP 011225298.1          GDIGAAVKQYKANQ.........K......AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIG   522
NTDB id 297 STER RS00545 WP 011680614.1         GDIGAAVKQYKANQ.........K......AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIG   522
consensus                                        **  **                 *      *      ****  **  ** ****!* **** *  * **** *!***!*!

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NTDB id 378 SMU RS02690 WP 002263569.1          QDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAPPG   535
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 85 BSU 00860 NP 387967.1                QDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPPG   592
NTDB id 610 V4T04 RS10165 WP 012897346.1        QEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAPPG   601
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 1137914 DQM59 RS09600 WP 002279992.1   QDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPG   599
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
consensus                                        !**!** ***!*!!* *!*** *!!*!!!*!*!!!!!!!!!!***!!* *! **  **!*!!!!*!!! * **! !*!!!

logo

NTDB id 378 SMU RS02690 WP 002263569.1          YVGYDEAGQLTEKVRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANVG   613
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 85 BSU 00860 NP 387967.1                YVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVG   672
NTDB id 610 V4T04 RS10165 WP 012897346.1        YVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTVG   681
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 1137914 DQM59 RS09600 WP 002279992.1   YVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVG   679
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
consensus                                        !!!!*!*! !!!*!!**!!!**! !!*!!!!!!*****!!*!*!! *!!**!!*!*! **!*!!!!!*!*********!!
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NTDB id 378 SMU RS02690 WP 002263569.1        FGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKLV   688
NTDB id 241 SP RS04015 WP 000882523.1         FGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 281 KZH43 RS03550 WP 000882517.1      FGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 245 SPD RS03860 WP 000882517.1        FGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 243 SPR RS03635 WP 000882517.1        FGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLV   687
NTDB id 85 BSU 00860 NP 387967.1              FNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKVA   752
NTDB id 610 V4T04 RS10165 WP 012897346.1      FGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIA   761
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 1137914 DQM59 RS09600 WP 002279992.1 FGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQEDIRHVVKIMVAPLIAHLADQGITLKFQPSALKHLA   759
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
consensus                                     !**          *  ****!!** **!!!*!!*!* **!* !* * *  *!**!*  **  !***** ***   *** **

logo

NTDB id 378 SMU RS02690 WP 002263569.1        DLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKELK.AIMTSNGKIVIKASNKVETVTKATSD   753
NTDB id 241 SP RS04015 WP 000882523.1         DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 281 KZH43 RS03550 WP 000882517.1      DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 245 SPD RS03860 WP 000882517.1        DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 243 SPR RS03635 WP 000882517.1        DLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNIQIKSAKKAEVKSSEKEK   752
NTDB id 85 BSU 00860 NP 387967.1              EEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN........   810
NTDB id 610 V4T04 RS10165 WP 012897346.1      EVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV...........   816
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 1137914 DQM59 RS09600 WP 002279992.1 LAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV............   813
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
consensus                                       !*!***!!!!!!***!   *!!**** *! * *  *  * ** *** *
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X non conserved

X similar

X ≥50% conserved