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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          ..........................................MLCQNCNINEAT...............................   12
NTDB id 281 KZH43 RS03550 WP 000882517.1        ..........................................MLCQNCKINDST...............................   12
NTDB id 245 SPD RS03860 WP 000882517.1          ..........................................MLCQNCKINDST...............................   12
NTDB id 243 SPR RS03635 WP 000882517.1          ..........................................MLCQNCKINDST...............................   12
NTDB id 241 SP RS04015 WP 000882523.1           ..........................................MLCQNCKINDST...............................   12
NTDB id 1119814 EL086 RS03195 WP 060775854.1    ..........................................MLCQNCNLNEAS...............................   12
NTDB id 378 SMU RS02690 WP 002263569.1          ..........................................MLCQNCKLNEAT...............................   12
NTDB id 85 BSU 00860 NP 387967.1                ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG........R   70
NTDB id 610 V4T04 RS10165 WP 012897346.1        MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDL........EDLSSH   72
NTDB id 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                                                                                 **     *   *
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          ....IHLYTSVNGQKKQIDLCQNCYQ...IMKSGGQEALFGAGNASNGNSDEPFNP.............FNDIFSALQGQ   72
NTDB id 281 KZH43 RS03550 WP 000882517.1        ....IHLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRDFDP................FGDFFNDLNNF   69
NTDB id 245 SPD RS03860 WP 000882517.1          ....IHLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRDFDP................FGDFFNDLNNF   69
NTDB id 243 SPR RS03635 WP 000882517.1          ....IHLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRDFDP................FGDFFNDLNNF   69
NTDB id 241 SP RS04015 WP 000882523.1           ....IHLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRDFDP................FGDFFNDLNNF   69
NTDB id 1119814 EL086 RS03195 WP 060775854.1    ....IHLYTNVNGNQQQVDLCQNCYK...IMKSDPENP.LN...QFNQTGGSNF...............FDDFFSDLNNF   66
NTDB id 378 SMU RS02690 WP 002263569.1          ....IHLYANVNGQQKQIDLCQNCYQ...IMKTDPENGPLNHLSQQNSSSINPF...............FDDFFGDLNNF   70
NTDB id 85 BSU 00860 NP 387967.1                GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.........  141
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          .DFNGAASN.....QTPPTQTGGR...........GPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKR   135
NTDB id 281 KZH43 RS03550 WP 000882517.1        RPSSN..TP.....PIPPTQSGGGYGGNGGY.GSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIR   141
NTDB id 245 SPD RS03860 WP 000882517.1          RPSSN..TP.....PIPPTQSGGGYGGNGGY.GSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIR   141
NTDB id 243 SPR RS03635 WP 000882517.1          RPSSN..TP.....PIPPTQSGGGYGGNGGY.GSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIR   141
NTDB id 241 SP RS04015 WP 000882523.1           RPSSN..TP.....PIPPTQSGGGYGGNGGY.GSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIR   141
NTDB id 1119814 EL086 RS03195 WP 060775854.1    RSS.NGDLP.....NTPPTQEGGNRGNGGNTQGPGRPGGPRQQAPQQPQGLLEEFGINITDIARRGDIDPVIGRDEEIIR   140
NTDB id 378 SMU RS02690 WP 002263569.1          RAFNNQDLP.....NTPPTQAGGGNGNGGNNR...RPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITR   142
NTDB id 85 BSU 00860 NP 387967.1                LGSNET.............................GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQR   191
NTDB id 610 V4T04 RS10165 WP 012897346.1        TGLKVPESKKAVTPMSKRKMAKG...................VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDR   204
NTDB id 290 KZH43 RS10025 WP 001109677.1        AGWTREDLKA.LRQRHRTV.ADKQ...........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISR   217
NTDB id 289 SPD RS10700 WP 001109677.1          AGWTREDLKA.LRQRHRTV.ADKQ...........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISR   217
NTDB id 287 SP RS11210 WP 001109712.1           AGWTREDLKA.LRQRHRTV.ADKQ...........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISR   217
NTDB id 377 SMU RS09275 WP 002262344.1          AGFSKEDIKA.IFEMRKPKKVKNS...........SSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISR   221
NTDB id 297 STER RS00545 WP 011680614.1         AGLSKQDLKA.IHDLRKPKKSKAS...........ANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISR   224
NTDB id 329 STU RS10020 WP 011225298.1          AGLSKQDLKA.IHDLRKPKKSKAS...........ANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISR   224
consensus                                        * *  *          *    *                    **    * !***   *!**!* * **!*!!!**!! !
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 601 KW2 RS02615 WP 021036805.1          VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKR   215
NTDB id 281 KZH43 RS03550 WP 000882517.1        VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKR   221
NTDB id 245 SPD RS03860 WP 000882517.1          VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKR   221
NTDB id 243 SPR RS03635 WP 000882517.1          VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKR   221
NTDB id 241 SP RS04015 WP 000882523.1           VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKR   221
NTDB id 1119814 EL086 RS03195 WP 060775854.1    VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGSVPQKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQR   220
NTDB id 378 SMU RS02690 WP 002263569.1          VIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQR   222
NTDB id 85 BSU 00860 NP 387967.1                VIEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQA   271
NTDB id 610 V4T04 RS10165 WP 012897346.1        LIHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSD   284
NTDB id 290 KZH43 RS10025 WP 001109677.1        MIQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEED   297
NTDB id 289 SPD RS10700 WP 001109677.1          MIQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEED   297
NTDB id 287 SP RS11210 WP 001109712.1           MIQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEED   297
NTDB id 377 SMU RS09275 WP 002262344.1          MVQILSRKTKNNPVLVGDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEAD   301
NTDB id 297 STER RS00545 WP 011680614.1         MIQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEAD   304
NTDB id 329 STU RS10020 WP 011225298.1          MIQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEAD   304
consensus                                       ** *! !*!!!!!!!*!**!!!!*!* *!!!!*!* **!!   *     ** !*****! !!   !! !!*!** *****
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          NDVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITI   294
NTDB id 281 KZH43 RS03550 WP 000882517.1        EDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITI   300
NTDB id 245 SPD RS03860 WP 000882517.1          EDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITI   300
NTDB id 243 SPR RS03635 WP 000882517.1          EDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITI   300
NTDB id 241 SP RS04015 WP 000882523.1           EDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITI   300
NTDB id 1119814 EL086 RS03195 WP 060775854.1   QDVILFIDEIHEIVGAGNAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVEETITI   299
NTDB id 378 SMU RS02690 WP 002263569.1          QDVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITI   301
NTDB id 85 BSU 00860 NP 387967.1                GNIILFIDELHTLIGAGG.AEGAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQI   350
NTDB id 610 V4T04 RS10165 WP 012897346.1        PDVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAI   364
NTDB id 290 KZH43 RS10025 WP 001109677.1        GQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTI   377
NTDB id 289 SPD RS10700 WP 001109677.1          GQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTI   377
NTDB id 287 SP RS11210 WP 001109712.1           GQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTI   377
NTDB id 377 SMU RS09275 WP 002262344.1          GHIVLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQI   381
NTDB id 297 STER RS00545 WP 011680614.1         GKIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDI   384
NTDB id 329 STU RS10020 WP 011225298.1          GKIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDI   384
consensus                                         ***!!!!*! **!*!** *  *!!*!!!!!*!!!!****!!!!  !!   !!!!*!!*!!   * ***!*******!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          LRGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLKF..VDPEDINRRIADAENKKNEA   372
NTDB id 281 KZH43 RS03550 WP 000882517.1        LKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQA   378
NTDB id 245 SPD RS03860 WP 000882517.1          LKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQA   378
NTDB id 243 SPR RS03635 WP 000882517.1          LKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQA   378
NTDB id 241 SP RS04015 WP 000882523.1           LKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQA   378
NTDB id 1119814 EL086 RS03195 WP 060775854.1   LRGIQPKYQDYHHVKYTDEAITAAAELSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKDIDKRLIEAENLKAQA   377
NTDB id 378 SMU RS02690 WP 002263569.1          LKGIQPKYEDYHHVKYTDEAIEAAANLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKEIDHRLIEAENLKAQA   379
NTDB id 85 BSU 00860 NP 387967.1                LQGLRDRYEAHHRVSITDDAIEAAVKLSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAA   430
NTDB id 610 V4T04 RS10165 WP 012897346.1        LQGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEA   444
NTDB id 290 KZH43 RS10025 WP 001109677.1        LQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKA   449
NTDB id 289 SPD RS10700 WP 001109677.1          LQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKA   449
NTDB id 287 SP RS11210 WP 001109712.1           LQGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKA   449
NTDB id 377 SMU RS09275 WP 002262344.1          LLGLKKSYETYHHVIISDAAVMAAVKGAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHA   451
NTDB id 297 STER RS00545 WP 011680614.1         LNGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKREI....T....PLDEA   454
NTDB id 329 STU RS10020 WP 011225298.1          LNGLRSSYEDYHRVTITDAAVETAVKAAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKREI....T....PLDEA   454
consensus                                       ! !*  *****! !  *! !***!  ** !!*  * !!!*!!!!*!!**  *** *     * ***   * *       !
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          TKAEDFEKAAHFRDQISKLRELQK......QEVTDEDMPVITEKDIEQIVEQKTQIPVGDLKEKEQTQLINLADDLKAHV   446
NTDB id 281 KZH43 RS03550 WP 000882517.1        TREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHV   452
NTDB id 245 SPD RS03860 WP 000882517.1          TREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHV   452
NTDB id 243 SPR RS03635 WP 000882517.1          TREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHV   452
NTDB id 241 SP RS04015 WP 000882523.1           TREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHV   452
NTDB id 1119814 EL086 RS03195 WP 060775854.1   TRDEDFEKAAYFRDQIAKYKEMQK......QTIKDQDMPVITEKHIEAIVEQKTNIPVGDLKEKEQSQLLSLADDLKSHV   451
NTDB id 378 SMU RS02690 WP 002263569.1          TRDEDYEKAAYFRDQIAKYKEMQS......AKLDKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRV   453
NTDB id 85 BSU 00860 NP 387967.1                VQSQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRV   510
NTDB id 610 V4T04 RS10165 WP 012897346.1        VIKLDIKASRTKEKAVEKIADKIYKFS.....VKEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRV   519
NTDB id 290 KZH43 RS10025 WP 001109677.1        LMDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRV   514
NTDB id 289 SPD RS10700 WP 001109677.1          LMDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRV   514
NTDB id 287 SP RS11210 WP 001109712.1           LMDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRV   514
NTDB id 377 SMU RS09275 WP 002262344.1          LITNDYQLAKRLLKKEK.........K.....PLLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRV   517
NTDB id 297 STER RS00545 WP 011680614.1         LISGDIGAAVKQYKANQ.........K.....AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRV   520
NTDB id 329 STU RS10020 WP 011225298.1          LISGDIGAAVKQYKANQ.........K.....AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRV   520
consensus                                         * **  **       *  *           *      ****  *  **   * *!*  *   *   ****  *!  *!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          IGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGPTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAP   526
NTDB id 281 KZH43 RS03550 WP 000882517.1        IGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAP   532
NTDB id 245 SPD RS03860 WP 000882517.1          IGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAP   532
NTDB id 243 SPR RS03635 WP 000882517.1          IGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAP   532
NTDB id 241 SP RS04015 WP 000882523.1           IGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAP   532
NTDB id 1119814 EL086 RS03195 WP 060775854.1   IGQDAAVDKIAKAIRRNRVGLGAPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHAVAKLVGAP   531
NTDB id 378 SMU RS02690 WP 002263569.1          IGQDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAP   533
NTDB id 85 BSU 00860 NP 387967.1                IGQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSP   590
NTDB id 610 V4T04 RS10165 WP 012897346.1        VGQEEAISAVSRAIRRARSGVADSRRPMGSFMFLGPTGVGKTELAKALADSVFGSEDNMIRVDMSEFMEKHSTSRLIGAP   599
NTDB id 290 KZH43 RS10025 WP 001109677.1        IGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAP   594
NTDB id 289 SPD RS10700 WP 001109677.1          IGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAP   594
NTDB id 287 SP RS11210 WP 001109712.1           IGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAP   594
NTDB id 377 SMU RS09275 WP 002262344.1          IGQDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAP   597
NTDB id 297 STER RS00545 WP 011680614.1         IGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAP   600
NTDB id 329 STU RS10020 WP 011225298.1          IGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAP   600
consensus                                       *!!**!*  *  *!*!!** !* *  !!*!!!*!*!!!!!!!!!!** !!  *!* ** **!*!!!!*!!!*   *!*!*!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          PGYVGYEEAGQLTERVRRNPYSLILLDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGK..VEAS   604
NTDB id 281 KZH43 RS03550 WP 000882517.1        PGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEAS   610
NTDB id 245 SPD RS03860 WP 000882517.1          PGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEAS   610
NTDB id 243 SPR RS03635 WP 000882517.1          PGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEAS   610
NTDB id 241 SP RS04015 WP 000882523.1           PGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEAS   610
NTDB id 1119814 EL086 RS03195 WP 060775854.1   PGYVGYDEAGQLTEKVRRNPYSLILLDEVEKAHPDVLHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..VEAS   609
NTDB id 378 SMU RS02690 WP 002263569.1          PGYVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEAN   611
NTDB id 85 BSU 00860 NP 387967.1                PGYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKY   670
NTDB id 610 V4T04 RS10165 WP 012897346.1        PGYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKT   679
NTDB id 290 KZH43 RS10025 WP 001109677.1        PGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT   674
NTDB id 289 SPD RS10700 WP 001109677.1          PGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT   674
NTDB id 287 SP RS11210 WP 001109712.1           PGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT   674
NTDB id 377 SMU RS09275 WP 002262344.1          PGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT   677
NTDB id 297 STER RS00545 WP 011680614.1         PGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT   680
NTDB id 329 STU RS10020 WP 011225298.1          PGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT   680
consensus                                       !!!!!!*!*!*!!!*!!  !!!**!*!!*!!!!!!*  * !!*!*!! *!!  !! ! !* ***!!!!! !       * *
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1          VGFGAAREG.....RTKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEK   679
NTDB id 281 KZH43 RS03550 WP 000882517.1        VGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEK   685
NTDB id 245 SPD RS03860 WP 000882517.1          VGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEK   685
NTDB id 243 SPR RS03635 WP 000882517.1          VGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEK   685
NTDB id 241 SP RS04015 WP 000882523.1           VGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEK   685
NTDB id 1119814 EL086 RS03195 WP 060775854.1   VGFGAAREN.....RTNSVLNQLGDFFSPEFMNRFDGIIEFSALSKENLLTIVDLMLDNVNQRLANNGIHLSVTDKVKEK   684
NTDB id 378 SMU RS02690 WP 002263569.1          VGFGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFQALSKDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEK   686
NTDB id 85 BSU 00860 NP 387967.1                VGFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAK   750
NTDB id 610 V4T04 RS10165 WP 012897346.1        VGFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKL   759
NTDB id 290 KZH43 RS10025 WP 001109677.1        VGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKL   754
NTDB id 289 SPD RS10700 WP 001109677.1          VGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKL   754
NTDB id 287 SP RS11210 WP 001109712.1           VGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKL   754
NTDB id 377 SMU RS09275 WP 002262344.1          VGFGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKH   757
NTDB id 297 STER RS00545 WP 011680614.1         VGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKH   760
NTDB id 329 STU RS10020 WP 011225298.1          VGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAALKH   760
consensus                                       !!!**             ** *!   * !!!*!! !  * !  !* ***  *! *!*  *   ** * * * **  *
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logo
                                                  LVDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQL.VADLIDDKIVISNQTQETAETTDE.EVPAE..   748
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 281 KZH43 RS03550 WP 000882517.1          LVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.....   752
NTDB id 245 SPD RS03860 WP 000882517.1            LVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.....   752
NTDB id 243 SPR RS03635 WP 000882517.1            LVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.....   752
NTDB id 241 SP RS04015 WP 000882523.1             LVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.....   752
NTDB id 1119814 EL086 RS03195 WP 060775854.1     LVDLGYDPKMGARPLRRTIQDHIEDAITDFYLENPNEKDL.KAVMTSKGHITIKSAKKAEKTAQKAETAKETD   756
NTDB id 378 SMU RS02690 WP 002263569.1            LVDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIMTSNGKIVIKASNKVETVTKATSD.....   753
NTDB id 85 BSU 00860 NP 387967.1                  VAEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN.............   810
NTDB id 610 V4T04 RS10165 WP 012897346.1          IAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV................   816
NTDB id 290 KZH43 RS10025 WP 001109677.1          LANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..................   810
NTDB id 289 SPD RS10700 WP 001109677.1            LANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA..................   810
NTDB id 287 SP RS11210 WP 001109712.1             LANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQLKFDIA..................   810
NTDB id 377 SMU RS09275 WP 002262344.1            LALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV..................   813
NTDB id 297 STER RS00545 WP 011680614.1           LAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV..................   816
NTDB id 329 STU RS10020 WP 011225298.1            LAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV..................   816
consensus                                         * * !*** *!!!!!!***!  *!! ***  *         * *  * * *
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X non conserved

X similar

X ≥ 50% conserved