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logo
NTDB id 601 KW2 RS02615 WP 021036805.1     ..........................................MLCQNCNIN.................................EATI   13
NTDB id 378 SMU RS02690 WP 002263569.1     ..........................................MLCQNCKLN.................................EATI   13
NTDB id 241 SP RS04015 WP 000882523.1      ..........................................MLCQNCKIN.................................DSTI   13
NTDB id 281 KZH43 RS03550 WP 000882517.1   ..........................................MLCQNCKIN.................................DSTI   13
NTDB id 245 SPD RS03860 WP 000882517.1     ..........................................MLCQNCKIN.................................DSTI   13
NTDB id 243 SPR RS03635 WP 000882517.1     ..........................................MLCQNCKIN.................................DSTI   13
NTDB id 45219 LL3 RS00515 WP 013350791.1   ..MMFGRFTERAQKVLALAQEEALRLGHTNIGTEHILLGLVREGEGIAFKALEALGLNSDKMQKEVESLIGRGQE.......STT   76
NTDB id 85 BSU 00860 NP 387967.1           ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIGRGQE.......MSQ   76
NTDB id 610 V4T04 RS10165 WP 012897346.1   MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDL........EDLSSHVKVKR   77
NTDB id 290 KZH43 RS10025 WP 001109677.1   .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDETF   75
NTDB id 289 SPD RS10700 WP 001109677.1     .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDETF   75
NTDB id 287 SP RS11210 WP 001109712.1      .....MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDETF   75
NTDB id 377 SMU RS09275 WP 002262344.1     ....MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI   79
NTDB id 297 STER RS00545 WP 011680614.1    ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII   81
NTDB id 329 STU RS10020 WP 011225298.1     ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII   81
consensus                                     **          *   *        * * *** ***     **                                  * **

logo
NTDB id 601 KW2 RS02615 WP 021036805.1     HLYTSVNGQKKQIDLCQNCYQI...MKSGGQEALFGAGNASNGNSD............EPFNP.FNDIFSALQGQ.DFNGAASN.   80
NTDB id 378 SMU RS02690 WP 002263569.1     HLYANVNGQQKQIDLCQNCYQI...MKTDPENGPLNHLSQQNSSS..............INPFFDDFFGDLNNFRAFNNQDLP.   79
NTDB id 241 SP RS04015 WP 000882523.1      HLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD..............FDP.FGDFFNDLNNFRPSSN..TP.   76
NTDB id 281 KZH43 RS03550 WP 000882517.1   HLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD..............FDP.FGDFFNDLNNFRPSSN..TP.   76
NTDB id 245 SPD RS03860 WP 000882517.1     HLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD..............FDP.FGDFFNDLNNFRPSSN..TP.   76
NTDB id 243 SPR RS03635 WP 000882517.1     HLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLNNRD..............FDP.FGDFFNDLNNFRPSSN..TP.   76
NTDB id 45219 LL3 RS00515 WP 013350791.1   SVPHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL..L.......GSN......  146
NTDB id 85 BSU 00860 NP 387967.1           .TIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL..L.......GSN......  145
NTDB id 610 V4T04 RS10165 WP 012897346.1   STLRFSPRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLLKL.........QKINIVSLRKELEKRTGLKVPESKK  153
NTDB id 290 KZH43 RS10025 WP 001109677.1   TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA  160
NTDB id 289 SPD RS10700 WP 001109677.1     TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA  160
NTDB id 287 SP RS11210 WP 001109712.1      TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA  160
NTDB id 377 SMU RS09275 WP 002262344.1     MLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERYAGFSKEDIKA  164
NTDB id 297 STER RS00545 WP 011680614.1    DLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA  166
NTDB id 329 STU RS10020 WP 011225298.1     DLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA  166
consensus                                   *   * *  * **       *     ********** * * *     **                 *    *    * *
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1     ....QTPPTQTGG..........RGPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRTKNNPVLI   151
NTDB id 378 SMU RS02690 WP 002263569.1     ....NTPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIEILNRRTKNNPVLI   158
NTDB id 241 SP RS04015 WP 000882523.1      ....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIEILNRRTKNNPVLI   157
NTDB id 281 KZH43 RS03550 WP 000882517.1   ....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIEILNRRTKNNPVLI   157
NTDB id 245 SPD RS03860 WP 000882517.1     ....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIEILNRRTKNNPVLI   157
NTDB id 243 SPR RS03635 WP 000882517.1     ....PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIEILNRRTKNNPVLI   157
NTDB id 45219 LL3 RS00515 WP 013350791.1  .............E..........TGTSGAGTNSSANTPTLDSLARDLTAIAREDSLDPVIGRSKEIQRVIEVLSRRTKNNPVLI   208
NTDB id 85 BSU 00860 NP 387967.1           .............E..........TGSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIEVLSRRTKNNPVLI   207
NTDB id 610 V4T04 RS10165 WP 012897346.1   AVTPMSKRKMAKG...................VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRLIHILSRRTKNNPVLV   220
NTDB id 290 KZH43 RS10025 WP 001109677.1   .LRQRHRTV.ADKQ..........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQILSRKTKNNPVLV   233
NTDB id 289 SPD RS10700 WP 001109677.1     .LRQRHRTV.ADKQ..........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQILSRKTKNNPVLV   233
NTDB id 287 SP RS11210 WP 001109712.1      .LRQRHRTV.ADKQ..........NSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKEISRMIQILSRKTKNNPVLV   233
NTDB id 377 SMU RS09275 WP 002262344.1     .IFEMRKPKKVKNS..........SSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMVQILSRKTKNNPVLV   237
NTDB id 297 STER RS00545 WP 011680614.1    .IHDLRKPKKSKAS..........ANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIQVLSRKTKNNPVLV   240
NTDB id 329 STU RS10020 WP 011225298.1     .IHDLRKPKKSKAS..........ANFANMMQPPQSSTGELADYTKDLTALAESGNLDPIIGRDEEISRMIQVLSRKTKNNPVLV   240
consensus                                        *    *                    *    ** !***  **!**!* * **!*!!!* !! !** *!*!*!!!!!!!*

logo
NTDB id 601 KW2 RS02615 WP 021036805.1     GEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEIHEIVGAGSAGD   236
NTDB id 378 SMU RS02690 WP 002263569.1     GEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRQRQDVILFIDEIHEIVGAGSAGD   243
NTDB id 241 SP RS04015 WP 000882523.1      GEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDIILFIDEIHEIVGAGSASD   242
NTDB id 281 KZH43 RS03550 WP 000882517.1   GEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDIILFIDEIHEIVGAGSASD   242
NTDB id 245 SPD RS03860 WP 000882517.1     GEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDIILFIDEIHEIVGAGSASD   242
NTDB id 243 SPR RS03635 WP 000882517.1     GEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDIILFIDEIHEIVGAGSASD   242
NTDB id 45219 LL3 RS00515 WP 013350791.1  GEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAGNIILFIDELHTLIGAGG.AE   292
NTDB id 85 BSU 00860 NP 387967.1           GEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEIRQAGNIILFIDELHTLIGAGG.AE   291
NTDB id 610 V4T04 RS10165 WP 012897346.1   GEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDVIIFIDELHTIIGAGGGMD   305
NTDB id 290 KZH43 RS10025 WP 001109677.1   GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSGSGID   318
NTDB id 289 SPD RS10700 WP 001109677.1     GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSGSGID   318
NTDB id 287 SP RS11210 WP 001109712.1      GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMGSGSGID   318
NTDB id 377 SMU RS09275 WP 002262344.1     GDAGVGKTALAYGLAQRIVDSAVPFELADMKVLELDMMSVVAGTRFRGDFEERMNQIIADIEADGHIVLFIDELHTIMGSGSGID   322
NTDB id 297 STER RS00545 WP 011680614.1    GEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKIILFIDELHTIIGSGSGID   325
NTDB id 329 STU RS10020 WP 011225298.1     GEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEIEADGKIILFIDELHTIIGSGSGID   325
consensus                                  !**!!!!*!* *!!!!*!* **!!   *    *** !*****!*!!**!!*!!*!** *****     ***!!!!*!***!*!** *
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1     GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH   320
NTDB id 378 SMU RS02690 WP 002263569.1     GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN   327
NTDB id 241 SP RS04015 WP 000882523.1      GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT   326
NTDB id 281 KZH43 RS03550 WP 000882517.1   GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT   326
NTDB id 245 SPD RS03860 WP 000882517.1     GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT   326
NTDB id 243 SPR RS03635 WP 000882517.1     GNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT   326
NTDB id 45219 LL3 RS00515 WP 013350791.1   GAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDEPSVDESIQILKGLRDRYEAHHRVSITDEAIEAAVK   377
NTDB id 85 BSU 00860 NP 387967.1           GAIDASNILKPSLARGELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAHHRVSITDDAIEAAVK   376
NTDB id 610 V4T04 RS10165 WP 012897346.1   SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKSAVM   390
NTDB id 290 KZH43 RS10025 WP 001109677.1   STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK   403
NTDB id 289 SPD RS10700 WP 001109677.1     STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK   403
NTDB id 287 SP RS11210 WP 001109712.1      STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK   403
NTDB id 377 SMU RS09275 WP 002262344.1     STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSYETYHHVIISDAAVMAAVK   407
NTDB id 297 STER RS00545 WP 011680614.1    STLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILNGLRSSYEDYHRVTITDAAVETAVK   410
NTDB id 329 STU RS10020 WP 011225298.1     STLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEAIDILNGLRSSYEDYHRVTITDAAVETAVK   410
consensus                                    *!!*!!!!!*!!!!*****!!!!   !! * !!!!*!!*!!    * ***!*******!! !** **!**! !   *! !***!*

logo
NTDB id 601 KW2 RS02615 WP 021036805.1     LSNRYIQDRFLPDKAIDLLDESGSKKNLTLKF..VDPEDINRRIADAENKKNEATKAEDFEKAAHFRDQISKLREL.......QK   396
NTDB id 378 SMU RS02690 WP 002263569.1     LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKEIDHRLIEAENLKAQATRDEDYEKAAYFRDQIAKYKEM.......QS   403
NTDB id 241 SP RS04015 WP 000882523.1      LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEM.......QK   402
NTDB id 281 KZH43 RS03550 WP 000882517.1   LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEM.......QK   402
NTDB id 245 SPD RS03860 WP 000882517.1     LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEM.......QK   402
NTDB id 243 SPR RS03635 WP 000882517.1     LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEM.......QK   402
NTDB id 45219 LL3 RS00515 WP 013350791.1   LSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEFEKAASLRDTEQRLREQVEDTKKTWK   462
NTDB id 85 BSU 00860 NP 387967.1           LSDRYISDRFLPDKAIDLIDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEFEKAASLRDTEQRLREQVEDTKKSWK   461
NTDB id 610 V4T04 RS10165 WP 012897346.1   LSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFSV...   472
NTDB id 290 KZH43 RS10025 WP 001109677.1   MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.........EV...   468
NTDB id 289 SPD RS10700 WP 001109677.1     MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.........EV...   468
NTDB id 287 SP RS11210 WP 001109712.1      MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKADDSDL....S....PADKALMDGKWKQAAQLIAKEE.........EV...   468
NTDB id 377 SMU RS09275 WP 002262344.1     GAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.........KP...   470
NTDB id 297 STER RS00545 WP 011680614.1    AAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EDKREI....T....PLDEALISGDIGAAVKQYKANQ.........KA...   473
NTDB id 329 STU RS10020 WP 011225298.1     AAHRYLTSKNLPDSAIDLLDEASATVQVRIKK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.........KA...   473
consensus                                  ** !!** * !!!*!!!!*!!** ***  *     * ***   * *       !*   **  **       *  *
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1     QEVTDEDMPVITEKDIEQIVEQKTQIPVGDLKEKEQTQLINLADDLKAHVIGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVG   481
NTDB id 378 SMU RS02690 WP 002263569.1     AKLDKENTPVITEKNIEVIVEQKTNIPVGELKEKEQSQLIHLADDLKTRVIGQDAAVDKIAKAIRRNRVGLGTPNRPIGSFLFVG   488
NTDB id 241 SP RS04015 WP 000882523.1      KKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVG   487
NTDB id 281 KZH43 RS03550 WP 000882517.1   KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVG   487
NTDB id 245 SPD RS03860 WP 000882517.1     KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVG   487
NTDB id 243 SPR RS03635 WP 000882517.1     KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVG   487
NTDB id 45219 LL3 RS00515 WP 013350791.1   EK.QGQENSEVSVEDIAMVVSSWTGVPVSKIAQTETDKLLNMESILHSRVIGQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLG   546
NTDB id 85 BSU 00860 NP 387967.1           EK.QGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILHSRVIGQDEAVVAVAKAVRRARAGLKDPKRPIGSFIFLG   545
NTDB id 610 V4T04 RS10165 WP 012897346.1   ...KEDKRQEVTDQAVVAVASTLTGVPITQMTKSESDRLINLEKELHKRVVGQEEAISAVSRAIRRARSGVADSRRPMGSFMFLG   554
NTDB id 290 KZH43 RS10025 WP 001109677.1   ...PV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLG   549
NTDB id 289 SPD RS10700 WP 001109677.1     ...PV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLG   549
NTDB id 287 SP RS11210 WP 001109712.1      ...PV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELHKRVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSFMFLG   549
NTDB id 377 SMU RS09275 WP 002262344.1     ...LLKKRAEVKEEDILATLSKLSGIPVKKLTQADSKKYLNLERELHKRVIGQDDAVSSISRAIRRNQSGIRVGKRPIGSFMFLG   552
NTDB id 297 STER RS00545 WP 011680614.1    ...KFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLG   555
NTDB id 329 STU RS10020 WP 011225298.1     ...KFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELHKRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLG   555
consensus                                        ****  *  ***  ***!*  *   *  ****** *!* *!*!!**!*  * *!*!!** !* * *!!*!!!*!*!
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1     PTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAPPGYVGYEEAGQLTEHVRRNPYSLILLDEIEKAHPDVMHMF   566
NTDB id 378 SMU RS02690 WP 002263569.1     PTGVGKTELSKQLAIELFGSEDSMIRFDMSEYMEKHAVAKLVGAPPGYVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMF   573
NTDB id 241 SP RS04015 WP 000882523.1      PTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMF   572
NTDB id 281 KZH43 RS03550 WP 000882517.1   PTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMF   572
NTDB id 245 SPD RS03860 WP 000882517.1     PTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMF   572
NTDB id 243 SPR RS03635 WP 000882517.1     PTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMF   572
NTDB id 45219 LL3 RS00515 WP 013350791.1   PTGVGKTELARALAESIFGDEEAMIRVDMSEYMEKHSTSRLVGSPPGYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNIL   631
NTDB id 85 BSU 00860 NP 387967.1           PTGVGKTELARALAESIFGDEESMIRIDMSEYMEKHSTSRLVGSPPGYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNIL   630
NTDB id 610 V4T04 RS10165 WP 012897346.1   PTGVGKTELAKALADSVFGSEDNMIRVDMSERMEKHSTSRLIGAPPGYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIM   639
NTDB id 290 KZH43 RS10025 WP 001109677.1   PTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVL   634
NTDB id 289 SPD RS10700 WP 001109677.1     PTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVL   634
NTDB id 287 SP RS11210 WP 001109712.1      PTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVL   634
NTDB id 377 SMU RS09275 WP 002262344.1     PTGVGKTELAKALAEVLFDDESALIRFDMSEYMEKFAASRLNGAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNIL   637
NTDB id 297 STER RS00545 WP 011680614.1    PTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNIL   640
NTDB id 329 STU RS10020 WP 011225298.1     PTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVL   640
consensus                                  !!!!!!!!!***!!* *!* ** **!*!!!!*!!!*  **!*!*!!!!!!!!*!*!*!!!*!! *!!!**!*!!*!!!!!!*****
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1      LQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGK..VEASVGFGAAREG.....RTKSVLGQLGDFFSPEFMNRFDGIIEFSALS   644
NTDB id 378 SMU RS02690 WP 002263569.1      LQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANVGFGASREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFQALS   651
NTDB id 241 SP RS04015 WP 000882523.1       LQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALS   650
NTDB id 281 KZH43 RS03550 WP 000882517.1    LQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALS   650
NTDB id 245 SPD RS03860 WP 000882517.1      LQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALS   650
NTDB id 243 SPR RS03635 WP 000882517.1      LQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALS   650
NTDB id 45219 LL3 RS00515 WP 013350791.1    LQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVGFNVQDESQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLE   716
NTDB id 85 BSU 00860 NP 387967.1            LQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVGFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLE   715
NTDB id 610 V4T04 RS10165 WP 012897346.1    LQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTVGFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLE   724
NTDB id 290 KZH43 RS10025 WP 001109677.1    LQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLS   719
NTDB id 289 SPD RS10700 WP 001109677.1      LQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLS   719
NTDB id 287 SP RS11210 WP 001109712.1       LQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLS   719
NTDB id 377 SMU RS09275 WP 002262344.1      LQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLG   722
NTDB id 297 STER RS00545 WP 011680614.1     LQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLE   725
NTDB id 329 STU RS10020 WP 011225298.1      LQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLE   725
consensus                                   !!*!*!! *!!**!! !*!*****!!!!!*!** ** ***!!!**         *  *** *!** **!!!*!!*!* **!* !*
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logo
NTDB id 601 KW2 RS02615 WP 021036805.1      KENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKLVDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQ.LVADLIDDKI   728
NTDB id 378 SMU RS02690 WP 002263569.1      KDNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKLVDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKE.LKAIMTSNGK   735
NTDB id 241 SP RS04015 WP 000882523.1       KDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGN   734
NTDB id 281 KZH43 RS03550 WP 000882517.1    KDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGN   734
NTDB id 245 SPD RS03860 WP 000882517.1      KDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGN   734
NTDB id 243 SPR RS03635 WP 000882517.1      KDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKGN   734
NTDB id 45219 LL3 RS00515 WP 013350791.1    KKHLTDIVSLMSDQLTKRLKEQDLSIELTEAAKAKVADEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIDKGQHIVLDVEDGE   801
NTDB id 85 BSU 00860 NP 387967.1            KKHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKVAEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGE   800
NTDB id 610 V4T04 RS10165 WP 012897346.1    SQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKK   809
NTDB id 290 KZH43 RS10025 WP 001109677.1    SDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQ   804
NTDB id 289 SPD RS10700 WP 001109677.1      SDHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQ   804
NTDB id 287 SP RS11210 WP 001109712.1       SDHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQ   804
NTDB id 377 SMU RS09275 WP 002262344.1      QEDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEK   807
NTDB id 297 STER RS00545 WP 011680614.1     EEQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDK   810
NTDB id 329 STU RS10020 WP 011225298.1      EEQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDK   810
consensus                                    *  *  *! *!*  *   * ** * * **  *   *** !*****!!!!!!***!  *!! *** ** * *  *  * *    *
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logo                                                  LKIKsA
                                                      IQFDIVKK.AEVKSSEKEK
                                                      ETVSSTSETNLTYDEEVPAE
NTDB id 601 KW2 RS02615 WP 021036805.1    VISNQTQETAETTDEEVPAE   748
NTDB id 378 SMU RS02690 WP 002263569.1    IVIKASNK.VETVTKATSD.   753
NTDB id 241 SP RS04015 WP 000882523.1     IQIKSAKK.AEVKSSEKEK.   752
NTDB id 281 KZH43 RS03550 WP 000882517.1  IQIKSAKK.AEVKSSEKEK.   752
NTDB id 245 SPD RS03860 WP 000882517.1    IQIKSAKK.AEVKSSEKEK.   752
NTDB id 243 SPR RS03635 WP 000882517.1    IQIKSAKK.AEVKSSEKEK.   752
NTDB id 45219 LL3 RS00515 WP 013350791.1  FVVKTTAKTN..........   811
NTDB id 85 BSU 00860 NP 387967.1          FVVKTTAKTN..........   810
NTDB id 610 V4T04 RS10165 WP 012897346.1  IKIAQIV.............   816
NTDB id 290 KZH43 RS10025 WP 001109677.1  LKFDIA..............   810
NTDB id 289 SPD RS10700 WP 001109677.1    LKFDIA..............   810
NTDB id 287 SP RS11210 WP 001109712.1     LKFDIA..............   810
NTDB id 377 SMU RS09275 WP 002262344.1    LKFDIV..............   813
NTDB id 297 STER RS00545 WP 011680614.1   LTFTVV..............   816
NTDB id 329 STU RS10020 WP 011225298.1    LTFTVV..............   816
consensus                                 *
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X non conserved
X similar
X $\geq$ 50% conserved