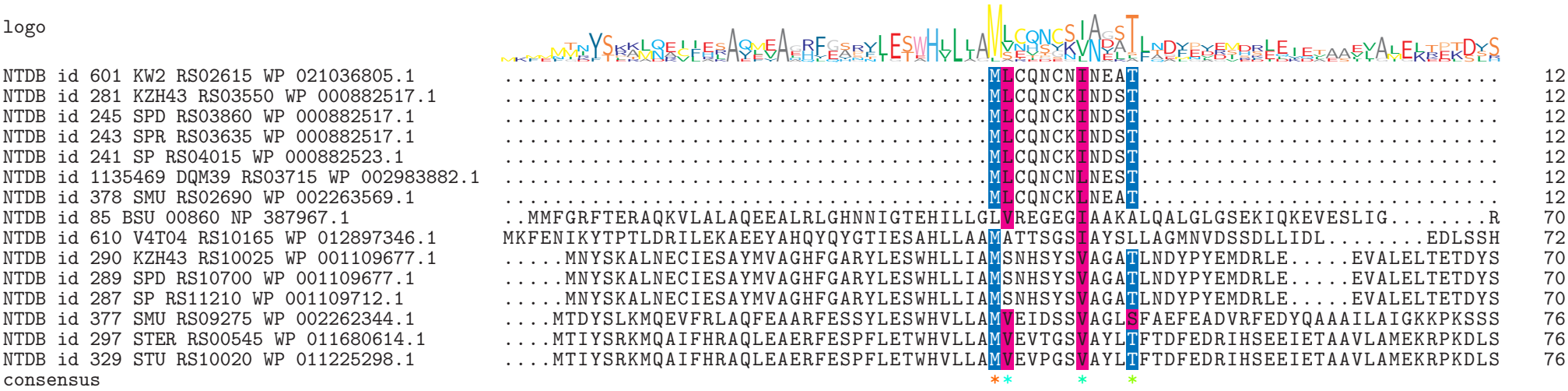
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NTDB id 85 BSU 00860 NP 387967.1 ..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....R 70
NTDB id 610 V4T04 RS10165 WP 012897346.1 MKFENIKYTPTLDRILEKAEEYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSSDLLIDL.....EDLSSH 72
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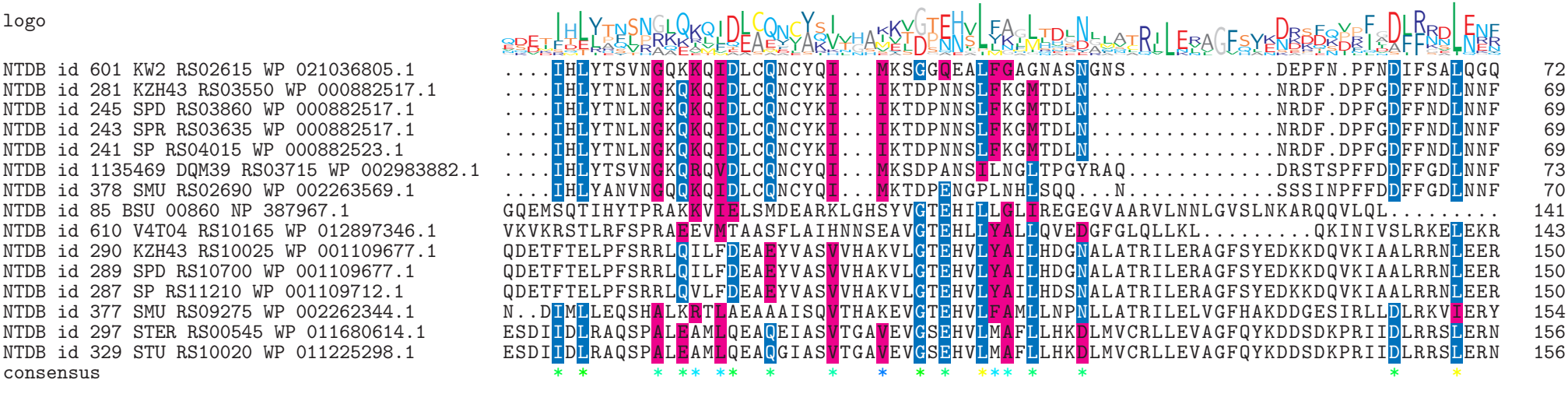
NTDB id 329 STU RS10020 WP 011225298.1 ....MTIYSRKMQAIFHRAQLEAERFESPFLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLS 76
consensus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NTDB id 245 SPD RS03860 WP 000882517.1 ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF 69
NTDB id 243 SPR RS03635 WP 000882517.1 ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF 69
NTDB id 241 SP RS04015 WP 000882523.1 ....IHLYTNLNGKQKQIDLCQNCYKI...IKTDPNNSLFKGMTDLN.....NRDF.DPFGDFFNDLNNF 69
NTDB id 1135469 DQM39 RS03715 WP 002983882.1 ....IHLYTSVNGKQRQVDLCQNCYQI...MKSDPANSILNGLTPGYRAQ.....DRSTSPFFDDFFGDLNNF 73
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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
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NTDB id 329 STU RS10020 WP 011225298.1 ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMAFLLHKDLMVCRLLEVAGFQYKDDSDKPRIIDLRRSLERN 156
consensus

logo

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NTDB id 245 SPD RS03860 WP 000882517.1          RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQN....RGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDE  138
NTDB id 243 SPR RS03635 WP 000882517.1          RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQN....RGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDE  138
NTDB id 241 SP RS04015 WP 000882523.1           RPSSN..TPP.....IPPTQSGGGYGGNGGYGSQN....RGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDE  138
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NTDB id 85 BSU 00860 NP 387967.1                LGSNET.....................................GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKE  188
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NTDB id 289 SPD RS10700 WP 001109677.1          AGWTREDLKA.LRQRHRTV.AD..............KQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKE  214
NTDB id 287 SP RS11210 WP 001109712.1           AGWTREDLKA.LRQRHRTV.AD..............KQNSMANMMGMPQTPSGGLEDYTHDLTEQARSGKLEPVIGRDKE  214
NTDB id 377 SMU RS09275 WP 002262344.1          AGFSKEDIKA.IFEMRKPKKVK..............NSSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQE  218
NTDB id 297 STER RS00545 WP 011680614.1         AGLSKQDLKA.IHDLRKPKKSK..............ASANFANMMQPPQSSTGELADYTKDLTALAESGNLDPVIGRDEE  221
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consensus                                        * *           *                      **    *  !***    *!**!* *  **!*!!!**!
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logo

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NTDB id 243 SPR RS03635 WP 000882517.1          IIRVIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEI  218
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NTDB id 85 BSU 00860 NP 387967.1                IQRVIEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQQIINNEVPEILRDKRVMTLDMGTVVAGTKYRGEFEDRLKKVMDEI  268
NTDB id 610 V4T04 RS10165 WP 012897346.1        IDRLIHILSRRTKNNPVLVGEPGVGKSAIIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEV  281
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NTDB id 289 SPD RS10700 WP 001109677.1          ISRMIQILSRKTKNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDI  294
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NTDB id 297 STER RS00545 WP 011680614.1         ISRMIQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEI  301
NTDB id 329 STU RS10020 WP 011225298.1          ISRMIQVLSRKTKNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMRILELDMMSVVAGTRFRGDFEERMNQIIDEI  301
consensus                                       ! !** *! !*!!!!!!!*!**!!!!*!* *!!!!*!* **!!  *    ** !*****! !!  !! !!*!** *****
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logo

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NTDB id 243 SPR RS03635 WP 000882517.1          RKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDET  297
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NTDB id 610 V4T04 RS10165 WP 012897346.1        SSDPDVIIFIDELHTIIGAGGGMDSVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEA  361
NTDB id 290 KZH43 RS10025 WP 001109677.1        EEDGQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADS  374
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NTDB id 287 SP RS11210 WP 001109712.1           EEDGQVILFIDELHTIMGSGSGIDSTLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADS  374
NTDB id 377 SMU RS09275 WP 002262344.1          EADGHIVLFIDELHTIMGSGSGIDSTLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEA  378
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NTDB id 329 STU RS10020 WP 011225298.1          EADGKIILFIDELHTIIGSGSGIDSTLDAANILKPALARGTLHMVGATTQAEYQKHIEKDAALSRRFAKITIEEPSVSEA  381
consensus                                             **x!!!!!! **!*!** *  *!!*!!!!!*!!!!*****!!!!  !!   !!!!*!!*!!   * ***!******
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logo

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NTDB id 610 V4T04 RS10165 WP 012897346.1        IAILQGLREKFEDYHQVKFTDQAIKSAVMLSVRYMTSRKLPDKAIDLLDEAAAAVKISVKNQQTKRLDLEKELAEAQEEL  441
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consensus                                       **!! !*  **!**! !  ** !***!  ** !!* * !!!*!!!!*!!** *** *    * ***   * *
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NTDB id 245 SPD RS03860 WP 000882517.1          SQATREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLK  449
NTDB id 243 SPR RS03635 WP 000882517.1          SQATREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPIISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLK  449
NTDB id 241 SP RS04015 WP 000882523.1           SQATREEDFEKAAYFRDQIAKYKEMQK......KKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLK  449
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NTDB id 85 BSU 00860 NP 387967.1                DAAVQSQEFEKAASLRDTEQRLREQVEDTKKSWKEKQGQENSEVTVDDIAMVVSSWTGVPVSKIAQTETDKLLNMENILH  507
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NTDB id 287 SP RS11210 WP 001109712.1           DKALMDGKWKQAAQLIAKEE.........E.....VPV.YKDLVTESDILTTLSRLSGIPVQKLTQTDAKKYLNLEAELH  511
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NTDB id 329 STU RS10020 WP 011225298.1          DEALISGDIGAAVKQYKANQ.........K.....AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTDSKRYLNLESELH  517
consensus                                         ! * ** **       * *          *      **** * ** * *!* * * **** *!
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NTDB id 245 SPD RS03860 WP 000882517.1          SHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLV  529
NTDB id 243 SPR RS03635 WP 000882517.1          SHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLV  529
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NTDB id 297 STER RS00545 WP 011680614.1         KRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLN  597
NTDB id 329 STU RS10020 WP 011225298.1          KRVIGQDEAVSAISRAIRRNQSGIRTGKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLN  597
consensus                                         *!*!!**!*  * *!*!!** !* *  !!*!!!*!*!!!!!!!!!!** !!  *!* *  **!*!!!!*!!!*   *!*
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NTDB id 281 KZH43 RS03550 WP 000882517.1              GAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..T   607
NTDB id 245 SPD RS03860 WP 000882517.1                GAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..T   607
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NTDB id 378 SMU RS02690 WP 002263569.1                GAPPGYVGYEEAGQLTEKVRRNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..S   608
NTDB id 85 BSU 00860 NP 387967.1                      GSPPGYVGYDEGGQLTEKVRRKPYSVVLLDEIEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKR   667
NTDB id 610 V4T04 RS10165 WP 012897346.1              GAPPGYVGYDEGGQLTERVRNKPYSVVLLDEVEKAHPDVFNIMLQILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRD   676
NTDB id 290 KZH43 RS10025 WP 001109677.1              GAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRD   671
NTDB id 289 SPD RS10700 WP 001109677.1                GAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRD   671
NTDB id 287 SP RS11210 WP 001109712.1                 GAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRD   671
NTDB id 377 SMU RS09275 WP 002262344.1                GAPPGYVGYEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRD   674
NTDB id 297 STER RS00545 WP 011680614.1               GAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRD   677
NTDB id 329 STU RS10020 WP 011225298.1                GAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRD   677
consensus                                             !*!!!!!!!*!*!*!!!*!!   !!!**!*!!*!!!!!!*  *  !!*!*!! *!!  !! ! !* ***!!!!! !
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NTDB id 245 SPD RS03860 WP 000882517.1                EASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKV   682
NTDB id 243 SPR RS03635 WP 000882517.1                EASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKV   682
NTDB id 241 SP RS04015 WP 000882523.1                 EASVGFGAAREG.....RTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKV   682
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NTDB id 85 BSU 00860 NP 387967.1                      NKYVGFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEKKHLTEIVSLMSDQLTKRLKEQDLSIELTDAA   747
NTDB id 610 V4T04 RS10165 WP 012897346.1              DKTVGFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLESQEIEQIVKIMSKSLIKRLAEQDIHVKLTPSA   756
NTDB id 290 KZH43 RS10025 WP 001109677.1              DKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASA   751
NTDB id 289 SPD RS10700 WP 001109677.1                DKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGIDLKLQASA   751
NTDB id 287 SP RS11210 WP 001109712.1                 DKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGIDLKLQASA   751
NTDB id 377 SMU RS09275 WP 002262344.1                DKTVGFGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQEDIRHIVKIMVAPLIAHLADQGITLKFQPSA   754
NTDB id 297 STER RS00545 WP 011680614.1               DKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAA   757
NTDB id 329 STU RS10020 WP 011225298.1                DKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEEEQLHDIVKIMVKPLISALADKGISLKFQPAA   757
consensus                                             * *!!!**          ** *!   * !!!*!! !  * !  !* * *  *! *!*  *   ** * * * ** *
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NTDB id 601 KW2 RS02615 WP 021036805.1 KEKLVDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQL.VADLIDDKIVISNQTQETAETTDEEVPAE 748
NTDB id 281 KZH43 RS03550 WP 000882517.1 KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.. 752
NTDB id 245 SPD RS03860 WP 000882517.1 KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.. 752
NTDB id 243 SPR RS03635 WP 000882517.1 KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.. 752
NTDB id 241 SP RS04015 WP 000882523.1 KEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNIQIKSAKKAEVKSSEKEK.. 752
NTDB id 1135469 DQM39 RS03715 WP 002983882.1 KEKLVDLGYDPKMGARPLRRTIQDYIEDAITDYYLEHPTEKQL.RALMTNSENITIKAVKEGDSFLNEESL.D 760
NTDB id 378 SMU RS02690 WP 002263569.1 KEKLVDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIMTSNGKIVIKASNKVETVTKATSD.. 753
NTDB id 85 BSU 00860 NP 387967.1 KAKVAEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEFVVKTTAKTN.......... 810
NTDB id 610 V4T04 RS10165 WP 012897346.1 VKLIAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKIKIAQIV.............. 816
NTDB id 290 KZH43 RS10025 WP 001109677.1 LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA.............. 810
NTDB id 289 SPD RS10700 WP 001109677.1 LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQLKFDIA.............. 810
NTDB id 287 SP RS11210 WP 001109712.1 LKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQLKFDIA.............. 810
NTDB id 377 SMU RS09275 WP 002262344.1 LKHLALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKLKFDIV.............. 813
NTDB id 297 STER RS00545 WP 011680614.1 LKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV.............. 816
NTDB id 329 STU RS10020 WP 011225298.1 LKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKLTFTVV.............. 816
consensus
X non conserved
X similar
X ≥ 50% conserved