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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1       MATKK....KTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRI    75
NTDB id 414633 GU336 RS02470 WP 061773709.1  MAKKA....KKNLDDITKKFGDEREKALNDALKVIEKDFGKGALMRLGDK.AEQKVQVMSSGSLALDIALGVGGYPKGRI    75
NTDB id 269 KZH43 RS08665 WP 001085462.1     MAK.K....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 228 SPD RS09265 WP 001085462.1       MAK.K....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 194 SPR RS08825 WP 001085462.1       MAK.K....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 159 SP RS09750 WP 001085462.1        MAK.K....PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 527 SMSK321 RS11065 WP 001085454.1   MAK.K....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 499 SM12261 RS08315 WP 078228268.1   MAK.K....PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 453 Spy49 1753c ACI62003.1           MAK.K....LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI    74
NTDB id 408 SMU RS09530 WP 002262392.1       MAK.R....IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI    74
NTDB id 625 LCA RS02525 WP 011374196.1       ....................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRI    61
NTDB id 115 BSU 16940 NP 389576.2            ....................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRI    59
NTDB id 1313 DR RS12030 WP 010888966.1       ......MSKDATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRI    73
NTDB id 1245 Cj1673c YP 002345041.1          ....................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRI    60
NTDB id 1211 C694 RS00795 WP 000963128.1     ..................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRI    62
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ..................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRI    62
NTDB id 1334 RA0C RS04870 WP 004918236.1     .........MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRI    69
NTDB id 1389 A4U84 RS07560 WP 021112712.1    MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRI    77
NTDB id 1130 NGFG RS03960 WP 003688695.1     ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 1124 NGFG RS03960 WP 003688695.1     ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 1123 OK783 RS03845 WP 003688695.1    ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 1427 RS RS02760 WP 011000510.1       MEDG........K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRV    69
NTDB id 1165 A1552VC RS01565 WP 000344154.1  ....................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI    60
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ....................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI    60
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ....................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI    60
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ....................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI    60
NTDB id 1205 PSJM300 05545 AFN77183.1        ....................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRI    60
consensus                                                          *** ***  **  **! *!!********      *  ***!!**!!*!!! !! !*!!*
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1        VEIYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLV   155
NTDB id 414633 GU336 RS02470 WP 061773709.1   IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAIDLV   155
NTDB id 269 KZH43 RS08665 WP 001085462.1      IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 228 SPD RS09265 WP 001085462.1        IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 194 SPR RS08825 WP 001085462.1        IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 159 SP RS09750 WP 001085462.1         IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 527 SMSK321 RS11065 WP 001085454.1    IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 499 SM12261 RS08315 WP 078228268.1    IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 453 Spy49 1753c ACI62003.1            IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 408 SMU RS09530 WP 002262392.1        VEIYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 625 LCA RS02525 WP 011374196.1        VEIYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDIL   141
NTDB id 115 BSU 16940 NP 389576.2             IEVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIV   139
NTDB id 1313 DR RS12030 WP 010888966.1        TEIYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVV   153
NTDB id 1245 Cj1673c YP 002345041.1           IEIYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLI   140
NTDB id 1211 C694 RS00795 WP 000963128.1      IEIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLV   142
NTDB id 1214 NCTC11637 00359 SQJ03206.1       IEIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLV   142
NTDB id 1334 RA0C RS04870 WP 004918236.1      VEIYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIV   149
NTDB id 1389 A4U84 RS07560 WP 021112712.1     VEIYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVI   157
NTDB id 1130 NGFG RS03960 WP 003688695.1      VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 1124 NGFG RS03960 WP 003688695.1      VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 1123 OK783 RS03845 WP 003688695.1     VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 1427 RS RS02760 WP 011000510.1        VEIYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLI   149
NTDB id 1165 A1552VC RS01565 WP 000344154.1   VEIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVI   140
NTDB id 1142 GTF74 RS11550 WP 000344154.1     VEIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVI   140
NTDB id 1022 ACIAD RS06390 WP 004925639.1     VEIYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLI   140
NTDB id 1074 ABD1 RS10195 WP 000344167.1      IEIYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLI   140
NTDB id 1205 PSJM300 05545 AFN77183.1         VEIYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVI   140
consensus                                     *!**!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!!*!*! * ** !***!**
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      VIDSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYAS   234
NTDB id 414633 GU336 RS02470 WP 061773709.1 VIDSVAALVPRAEIDGEIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGSPETTPGGRALKFYAS   234
NTDB id 269 KZH43 RS08665 WP 001085462.1    VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 228 SPD RS09265 WP 001085462.1      VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 194 SPR RS08825 WP 001085462.1      VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 159 SP RS09750 WP 001085462.1       VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 527 SMSK321 RS11065 WP 001085454.1  VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 499 SM12261 RS08315 WP 078228268.1  VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 453 Spy49 1753c ACI62003.1          VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 408 SMU RS09530 WP 002262392.1      VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSS   233
NTDB id 625 LCA RS02525 WP 011374196.1      VVDSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYST   220
NTDB id 115 BSU 16940 NP 389576.2           VVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSS   218
NTDB id 1313 DR RS12030 WP 010888966.1      VVDSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYAS   232
NTDB id 1245 Cj1673c YP 002345041.1         VVDSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYAS   220
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NTDB id 1165 A1552VC RS01565 WP 000344154.1 VVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYAS   219
NTDB id 1142 GTF74 RS11550 WP 000344154.1   VVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYAS   219
NTDB id 1022 ACIAD RS06390 WP 004925639.1   VVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
NTDB id 1074 ABD1 RS10195 WP 000344167.1    VVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
NTDB id 1205 PSJM300 05545 AFN77183.1       IVDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
consensus                                   **!!!!!!*!*!!!*!**!!***!!*!!**!*!*!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**
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NTDB id 414633 GU336 RS02470 WP 061773709.1 VRLDVRGNTQIKGTG.DDKDTAMGKETKIKVVKNKVAPPFKVAEVEIMFGEGISQTGELVKIATDLDIIKKSGAWFSYND   313
NTDB id 269 KZH43 RS08665 WP 001085462.1    VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 228 SPD RS09265 WP 001085462.1      VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 194 SPR RS08825 WP 001085462.1      VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 159 SP RS09750 WP 001085462.1       VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
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NTDB id 408 SMU RS09530 WP 002262392.1      VRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNG   312
NTDB id 625 LCA RS02525 WP 011374196.1      VRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGS   295
NTDB id 115 BSU 16940 NP 389576.2           VRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEE   293
NTDB id 1313 DR RS12030 WP 010888966.1      VRLDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGD   308
NTDB id 1245 Cj1673c YP 002345041.1         VRLDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKD   295
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NTDB id 1214 NCTC11637 00359 SQJ03206.1     VRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQD   297
NTDB id 1334 RA0C RS04870 WP 004918236.1    VRIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQD   308
NTDB id 1389 A4U84 RS07560 WP 021112712.1   VRLDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDG   311
NTDB id 1130 NGFG RS03960 WP 003688695.1    VRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG   295
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NTDB id 1165 A1552VC RS01565 WP 000344154.1 VRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNG   294
NTDB id 1142 GTF74 RS11550 WP 000344154.1   VRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNG   294
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NTDB id 1074 ABD1 RS10195 WP 000344167.1    VRLDIRRIGQ....V.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQG   294
NTDB id 1205 PSJM300 05545 AFN77183.1       VRLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKG   294
consensus                                   !!****!*            *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** ! !****!
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NTDB id 600 KW2 RS01765 WP 011675413.1        EKIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAV......ETEEIELELED   387
NTDB id 414633 GU336 RS02470 WP 061773709.1   EKIGQGSEKAKLYLKEHPEVFAEIDHKVREKFGLIAGETTEGQTEEKAATKSS.KAKKETAAESELVSLELDTIEIEE..   390
NTDB id 269 KZH43 RS08665 WP 001085462.1      EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDEP....KKEEAVNEEVPLDLGDELEIEIEE   388
NTDB id 228 SPD RS09265 WP 001085462.1        EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDEP....KKEEAVNEEVPLDLGDELEIEIEE   388
NTDB id 194 SPR RS08825 WP 001085462.1        EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDEP....KKEEAVNEEVPLDLGDELEIEIEE   388
NTDB id 159 SP RS09750 WP 001085462.1         EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDEP....KKEEAVNEEVPLDLGDELEIEIEE   388
NTDB id 527 SMSK321 RS11065 WP 001085454.1    EKIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDEV....AQVDSVNEEVTLDLGDELEIEIEE   384
NTDB id 499 SM12261 RS08315 WP 078228268.1    EKIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDEA....AQVDSVNEEVTLDLGDELEIEIEE   384
NTDB id 453 Spy49 1753c ACI62003.1            EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.....TDDLALDLDNGIEIED..   378
NTDB id 408 SMU RS09530 WP 002262392.1        EKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEKADKNLVLELDDTIELED..   383
NTDB id 625 LCA RS02525 WP 011374196.1        ERIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QINI...LPDDSTEE................   355
NTDB id 115 BSU 16940 NP 389576.2             ERLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEELEF...E.E....................   348
NTDB id 1313 DR RS12030 WP 010888966.1        ERIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.........................   363
NTDB id 1245 Cj1673c YP 002345041.1           KKLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI.....SGSEDD..EGEE.........................   343
NTDB id 1211 C694 RS00795 WP 000963128.1      KKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDE..PLEEME.......................   347
NTDB id 1214 NCTC11637 00359 SQJ03206.1       KKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDE..PLEEME.......................   347
NTDB id 1334 RAOC RS04870 WP 004918236.1      TKLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.............................................   343
NTDB id 1389 A4U84 RS07560 WP 021112712.1     TKIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS.....VLKATASDSNDESDVEEFSEEEL...............   372
NTDB id 1130 NGFG RS03960 WP 003688695.1      AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER......PEE................   348
NTDB id 1124 NGFG RS03960 WP 003688695.1      AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER......PEE................   348
NTDB id 1123 OK783 RS03845 WP 003688695.1     AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER......PEE................   348
NTDB id 1427 RS RS02760 WP 011000510.1        ERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG.....AVTLA.EEVEED.........................   352
NTDB id 1165 A1552VC RS01565 WP 000344154.1   DKIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAADDVEFGAVPEEF................   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     DKIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAADDVEFGAVPEEF................   354
NTDB id 1022 ACIAD RS06390 WP 004925639.1     NKIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD.....QTAA.HDETEEEPDLL..ES.................   349
NTDB id 1074 ABD1 RS10195 WP 000344167.1      NKIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN.....GAVQ.I.EDEEEPDLL..LES................   349
NTDB id 1205 PSJM300 05545 AFN77183.1         SKIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN.....TKATPVAEDLADADI......................   347
consensus                                      **!!!***** ** * *** ****  **    **
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X non conserved

X similar

X $\geq$ 50% conserved