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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1313 DR RS12030 WP 010888966.1         MSK....DATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE    75
NTDB id 600 KW2 RS01765 WP 011675413.1         MA..TKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE    77
NTDB id 269 KZH43 RS08665 WP 001085462.1       .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 228 SPD RS09265 WP 001085462.1         .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 194 SPR RS08825 WP 001085462.1         .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 159 SP RS09750 WP 001085462.1          .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 499 SM12261 RS08315 WP 078228268.1     .M..AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 527 SMSK321 RS11065 WP 001085454.1     .M..AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 408 SMU RS09530 WP 002262392.1         .M..AKRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE    76
NTDB id 453 Spy49 1753c ACI62003.1             .M..AKKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIIE    76
NTDB id 115 BSU 16940 NP 389576.2              ..................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRIIE    61
NTDB id 625 LCA RS02525 WP 011374196.1         ..................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVE    63
NTDB id 1245 Cj1673c YP 002345041.1            ..................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIIE    62
NTDB id 1214 NCTC11637 00359 SQJ03206.1        ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1211 C694 RS00795 WP 000963128.1       ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1334 RA0C RS04870 WP 004918236.1       .........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE    71
NTDB id 1095406 ACMUJI RS03730 WP 034954387.1  ......MATQLKLVEKEKDVDRQKALDAALAQIDRAFGKGSAMKLGQK.EAMQVEAISTGSLGLDIALGVGGLPKGRVIE    73
NTDB id 1389 A4U84 RS07560 WP 021112712.1      MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIVE    79
NTDB id 1130 NGFG RS03960 WP 003688695.1       ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1124 NGFG RS03960 WP 003688695.1       ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1123 OK783 RS03845 WP 003688695.1      ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1427 RS RS02760 WP 011000510.1         MEDG........KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVVE    71
NTDB id 1165 A1552VC RS01565 WP 000344154.1    ..................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE    62
NTDB id 1142 GTF74 RS11550 WP 000344154.1      ..................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE    62
NTDB id 1205 PSJM300 05545 AFN77183.1          ..................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIVE    62
NTDB id 1022 ACIAD RS06390 WP 004925639.1      ..................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE    62
NTDB id 1074 ABD1 RS10195 WP 000344167.1       ..................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIIE    62
consensus                                                          **  ***   **  **** *!!********       *   ***!!**!!*!!! !!  !*!!**!
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logo
NTDB id 1313 DR RS12030 WP 010888966.1          IYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVVV   155
NTDB id 600 KW2 RS01765 WP 011675413.1          IYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVVI   157
NTDB id 269 KZH43 RS08665 WP 001085462.1        IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 228 SPD RS09265 WP 001085462.1          IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 194 SPR RS08825 WP 001085462.1          IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 159 SP RS09750 WP 001085462.1           IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 499 SM12261 RS08315 WP 078228268.1      IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 527 SMSK321 RS11065 WP 001085454.1      IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 408 SMU RS09530 WP 002262392.1          IYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 453 Spy49 1753c ACI62003.1              IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 115 BSU 16940 NP 389576.2               VYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVVV   141
NTDB id 625 LCA RS02525 WP 011374196.1          IYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILVV   143
NTDB id 1245 Cj1673c YP 002345041.1             IYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIVV   142
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1211 C694 RS00795 WP 000963128.1        IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1334 RA0C RS04870 WP 004918236.1        IYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVVV   151
NTDB id 1095406 ACMUJI RS03730 WP 034954387.1  VYGPESSGKTTLALHVIAEAQKAGGTAAFVDAEHALDPVYAKKLGVDIDELIVSQPDTGEQALEITDTLVRSNAVDVLVV   153
NTDB id 1389 A4U84 RS07560 WP 021112712.1       IYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVIIV   159
NTDB id 1130 NGFG RS03960 WP 003688695.1        IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV   143
NTDB id 1124 NGFG RS03960 WP 003688695.1        IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV   143
NTDB id 1123 OK783 RS03845 WP 003688695.1       IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV   143
NTDB id 1427 RS RS02760 WP 011000510.1          IYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLIVI   151
NTDB id 1165 A1552VC RS01565 WP 000344154.1    IFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIVV   142
NTDB id 1142 GTF74 RS11550 WP 000344154.1       IFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIVV   142
NTDB id 1205 PSJM300 05545 AFN77183.1           IYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVIIV   142
NTDB id 1022 ACIAD RS06390 WP 004925639.1       IYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV   142
NTDB id 1074 ABD1 RS10195 WP 000344167.1        IYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV   142
consensus                                       **!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!!*!*! * ***!***!****
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logo
NTDB id 1313 DR RS12030 WP 010888966.1          DSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYASVR   234
NTDB id 600 KW2 RS01765 WP 011675413.1          DSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYASVR   236
NTDB id 269 KZH43 RS08665 WP 001085462.1        DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 228 SPD RS09265 WP 001085462.1          DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 194 SPR RS08825 WP 001085462.1          DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 159 SP RS09750 WP 001085462.1           DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 499 SM12261 RS08315 WP 078228268.1      DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 527 SMSK321 RS11065 WP 001085454.1      DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 408 SMU RS09530 WP 002262392.1          DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSSVR   235
NTDB id 453 Spy49 1753c ACI62003.1              DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 115 BSU 16940 NP 389576.2               DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSVR   220
NTDB id 625 LCA RS02525 WP 011374196.1          DSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYSTVR   222
NTDB id 1245 Cj1673c YP 002345041.1             DSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASVR   222
NTDB id 1214 NCTC11637 00359 SQJ03206.1         DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR   224
NTDB id 1211 C694 RS00795 WP 000963128.1        DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR   224
NTDB id 1334 RA0C RS04870 WP 004918236.1        DSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASVR   230
NTDB id 1095406 ACMUJI RS03730 WP 034954387.1   DSVAALVPRAEIEGEMGDSHVGLQARLMSQSLRKLTGSINRSKCMVIFINQLRMKIGVM.YGNPETTTGGNALKFYASVR   232
NTDB id 1389 A4U84 RS07560 WP 021112712.1       DSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASVR   238
NTDB id 1130 NGFG RS03960 WP 003688695.1        DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR   222
NTDB id 1124 NGFG RS03960 WP 003688695.1        DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR   222
NTDB id 1123 OK783 RS03845 WP 003688695.1       DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR   222
NTDB id 1427 RS RS02760 WP 011000510.1          DSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   230
NTDB id 1165 A1552VC RS01565 WP 000344154.1     DSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR   221
NTDB id 1142 GTF74 RS11550 WP 000344154.1       DSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR   221
NTDB id 1205 PSJM300 05545 AFN77183.1           DSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
NTDB id 1022 ACIAD RS06390 WP 004925639.1       DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
NTDB id 1074 ABD1 RS10195 WP 000344167.1        DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
consensus                                       !!!!!!*!*!!!*!**!!***!!*!!**!***!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**!!
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logo
NTDB id 1313 DR RS12030 WP 010888966.1          LDVRKIGQPTK....VGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDER   310
NTDB id 600 KW2 RS01765 WP 011675413.1          LDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYNDEK   315
NTDB id 269 KZH43 RS08665 WP 001085462.1        LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 228 SPD RS09265 WP 001085462.1          LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 194 SPR RS08825 WP 001085462.1          LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 159 SP RS09750 WP 001085462.1           LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 499 SM12261 RS08315 WP 078228268.1      LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 527 SMSK321 RS11065 WP 001085454.1      LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 408 SMU RS09530 WP 002262392.1          LDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNGEK   314
NTDB id 453 Spy49 1753c ACI62003.1              LDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGEK   314
NTDB id 115 BSU 16940 NP 389576.2               LEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEEER   295
NTDB id 625 LCA RS02525 WP 011374196.1          LEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGSER   297
NTDB id 1245 Cj1673c YP 002345041.1             LDVRKVA....TLK.QNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDKK   297
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IDIRRIA....ALK.QNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1211 C694 RS00795 WP 000963128.1        IDIRRIA....SLK.QNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1334 RAOC RS04870 WP 004918236.1        IDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDTK   310
NTDB id 1095406 ACMUJI RS03730 WP 034954387.1   LDIRRTG....QIK.DRDEIIGNTTRVKVVKNKVAPPFKQVEFDIMYGEGISKIGEILDLGVKAGVVEKSGSWYSYDSIR   307
NTDB id 1389 A4U84 RS07560 WP 021112712.1       LDIRRCG....VVK.DGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGTK   313
NTDB id 1130 NGFG RS03960 WP 003688695.1        LDIRRTG....SIK.KGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
NTDB id 1124 NGFG RS03960 WP 003688695.1        LDIRRTG....SIK.KGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
NTDB id 1123 OK783 RS03845 WP 003688695.1       LDIRRTG....SIK.KGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
NTDB id 1427 RS RS02760 WP 011000510.1          LDIRRIG....SIK.KGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGER   305
NTDB id 1165 A1552VC RS01565 WP 000344154.1     LDIRRTG....AIK.EGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK   296
NTDB id 1142 GTF74 RS11550 WP 000344154.1       LDIRRTG....AIK.EGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK   296
NTDB id 1205 PSJM300 05545 AFN77183.1           LDIRRTG....AVK.EGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGSK   296
NTDB id 1022 ACIAD RS06390 WP 004925639.1       LDIRRIG....QVK.EGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGNK   296
NTDB id 1074 ABD1 RS10195 WP 000344167.1        LDIRRIG....QVK.EGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGNK   296
consensus                                       ***!*             *  ** ****!**!!!*!*!!* *  ****!*!***  ****  **   *** ! !****!   *
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logo
NTDB id 1313 DR RS12030 WP 010888966.1          IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA......PEAAEA.....................  363
NTDB id 600 KW2 RS01765 WP 011675413.1          IGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED........  387
NTDB id 269 KZH43 RS08665 WP 001085462.1        IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 228 SPD RS09265 WP 001085462.1          IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 194 SPR RS08825 WP 001085462.1          IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 159 SP RS09750 WP 001085462.1           IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 499 SM12261 RS08315 WP 078228268.1      IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 527 SMSK321 RS11065 WP 001085454.1      IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 408 SMU RS09530 WP 002262392.1          IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED..  383
NTDB id 453 Spy49 1753c ACI62003.1              IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED..  378
NTDB id 115 BSU 16940 NP 389576.2               LGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E........................  348
NTDB id 625 LCA RS02525 WP 011374196.1          IGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE...............  355
NTDB id 1245 Cj1673c YP 002345041.1             LGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE...............................  343
NTDB id 1214 NCTC11637 00359 SQJ03206.1         LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E............................  347
NTDB id 1211 C694 RS00795 WP 000963128.1        LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E............................  347
NTDB id 1334 RAOC RS04870 WP 004918236.1        LGQGRDTVKELIKDNPELAEELEAKIREKLQAK..............................................  343
NTDB id 1095406 ACMUJI RS03730 WP 034954387.1   IGQGRENAKVYLKENPEICDKLEAAIRGKTDEVAEEMMTGPDAD....................................  351
NTDB id 1389 A4U84 RS07560 WP 021112712.1       IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEFS......EEEL..............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERP......EE................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERP......EE................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1       IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERP......EE................  348
NTDB id 1427 RS RS02760 WP 011000510.1          IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAV.TLAEEVEED...............................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1     IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFGAVP......EEF...............  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFGAVP......EEF...............  354
NTDB id 1205 PSJM300 05545 AFN77183.1           IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI...........................  347
NTDB id 1022 ACIAD RS06390 WP 004925639.1       IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.DLL..E......S.................  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1        IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL..L......ES................  349
consensus                                       *!!!***** ** ***** ****  **   **              *
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X non conserved

X similar

X ≥ 50% conserved