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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1          MAT..KKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE    77
NTDB id 269 KZH43 RS08665 WP 001085462.1        .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 228 SPD RS09265 WP 001085462.1          .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 194 SPR RS08825 WP 001085462.1          .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 159 SP RS09750 WP 001085462.1           .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 499 SM12261 RS08315 WP 078228268.1      .MA..KKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 527 SMSK321 RS11065 WP 001085454.1      .MA..KKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 408 SMU RS09530 WP 002262392.1          .MA..KRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE    76
NTDB id 453 Spy49 1753c ACI62003.1              .MA..KKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.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 1313 DR RS12030 WP 010888966.1          ....MSKDATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE    75
NTDB id 418681 SynA1562 RS01975 WP 186494548.1  MPADMK....SGASDPRPSGERDKALNLVLGQIERNFGKGSIMRLGDA.SRMRVETISTGALTLDLALG.GGYPKGRVVE    74
NTDB id 1245 Cj1673c YP 002345041.1             ..................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIIE    62
NTDB id 1211 C694 RS00795 WP 000963128.1        ...............MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1214 NCTC11637 00359 SQJ03206.1         ...............MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1334 RAOC RS04870 WP 004918236.1        .........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE    71
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 1022 ACIAD RS06390 WP 004925639.1       ..................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE    62
NTDB id 1074 ABD1 RS10195 WP 000344167.1        ..................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIIE    62
NTDB id 1205 PSJM300 05545 AFN77183.1           ..................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIVE    62
consensus                                                            **  ***   **  **** *!!********       *   ***!***!!*!!! !!  !*!!**!
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logo
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 1313 DR RS12030 WP 010888966.1          IYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVVV   155
NTDB id 418681 SynA1562 RS01975 WP 186494548.1  IYGPESSGKTTLTLHAIAEVQKRGGVAAFVDAEHALDPVYAASLGVDVENLLVSQPDTGEMALEIVDQLVRSAAVDLVVV   154
NTDB id 1245 Cj1673c YP 002345041.1             IYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIVV   142
NTDB id 1211 C694 RS00795 WP 000963128.1        IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1334 RA0C RS04870 WP 004918236.1        IYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVVV   151
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 1022 ACIAD RS06390 WP 004925639.1       IYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV   142
NTDB id 1074 ABD1 RS10195 WP 000344167.1        IYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV   142
NTDB id 1205 PSJM300 05545 AFN77183.1           IYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVIIV   142
consensus                                       **!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!**!*! * ***!***!****
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logo
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 1313 DR RS12030 WP 010888966.1          DSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYASVR   234
NTDB id 418681 SynA1562 RS01975 WP 186494548.1  DSVAALTPRAEIEGEMGDLAVGAQARLMSQAMRKITGNIGKSGCTVIFLNQLRLKIGVT.YGNPETTTGGNALKFYASVR   233
NTDB id 1245 Cj1673c YP 002345041.1             DSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASVR   222
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NTDB id 1214 NCTC11637 00359 SQJ03206.1         DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR   224
NTDB id 1334 RAOC RS04870 WP 004918236.1        DSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASVR   230
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 1022 ACIAD RS06390 WP 004925639.1       DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
NTDB id 1074 ABD1 RS10195 WP 000344167.1        DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
NTDB id 1205 PSJM300 05545 AFN77183.1           DSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR   221
consensus                                       !!!!!! !*!!!*!**!!***!**!!**!*!*!!*** * ** ** *!*!!*! !*!** *! !!*! !! !!!!!**!!
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logo
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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 1313 DR RS12030 WP 010888966.1          LDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDER   310
NTDB id 418681 SynA1562 RS01975 WP 186494548.1  LDIRRIQT....L.KKGTEEFGIRAKVKVAKNKVAPPFRIAEFDILFGRGISTLGCLLDLAEETGVVVRKGAWYSYEGDN   308
NTDB id 1245 Cj1673c YP 002345041.1             LDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDKK   297
NTDB id 1211 C694 RS00795 WP 000963128.1        IDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1334 RAOC RS04870 WP 004918236.1        IDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDTK   310
NTDB id 1389 A4U84 RS07560 WP 021112712.1       LDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGTK   313
NTDB id 1130 NGFG RS03960 WP 003688695.1        LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
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NTDB id 1123 OK783 RS03845 WP 003688695.1       LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
NTDB id 1427 RS RS02760 WP 011000510.1          LDIRRIGS....I.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGER   305
NTDB id 1165 A1552VC RS01565 WP 000344154.1     LDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK   296
NTDB id 1142 GTF74 RS11550 WP 000344154.1       LDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK   296
NTDB id 1022 ACIAD RS06390 WP 004925639.1       LDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGNK   296
NTDB id 1074 ABD1 RS10195 WP 000344167.1        LDIRRIGQ....V.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGNK   296
NTDB id 1205 PSJM300 05545 AFN77183.1           LDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGSK   296
consensus                                       ***!*            *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** * !****!   *
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logo
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 1313 DR RS12030 WP 010888966.1          IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPE......AAE...A..................  363
NTDB id 418681 SynA1562 RS01975 WP 186494548.1  IGQGRDNTISWMEENPEATATIETLVRQKLTEGSEVKANSMRPLAAAVK......TAA...ADKSAPAKTSEAAA.....  374
NTDB id 1245 Cj1673c YP 002345041.1             LGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMISGSEDD..............EG...EE.................  343
NTDB id 1211 C694 RS00795 WP 000963128.1        LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..............PL...EEME...............  347
NTDB id 1214 NCTC11637 00359 SQJ03206.1         LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..............PL...EEME...............  347
NTDB id 1334 RAOC RS04870 WP 004918236.1        LGQGRDTVKELIKDNPELAEELEAKIREKLQAK.......................................................  343
NTDB id 1389 A4U84 RS07560 WP 021112712.1       IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATA......S......DSN...DESDV.EEFSEEEL.....  372
NTDB id 1130 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQD......E......TDG...ER.......PEE.......  348
NTDB id 1124 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQD......E......TDG...ER.......PEE.......  348
NTDB id 1123 OK783 RS03845 WP 003688695.1       IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQD......E......TDG...ER.......PEE.......  348
NTDB id 1427 RS RS02760 WP 011000510.1          IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.......E......EVE...ED.................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1     IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAET......S......SAA...DDVEF.GAVPEEF......  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAET......S......SAA...DDVEF.GAVPEEF......  354
NTDB id 1022 ACIAD RS06390 WP 004925639.1       IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.H......D......ETE...EEPDL.L..ES........  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1        IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I..............EDE...EEPDL.L..LES.......  349
NTDB id 1205 PSJM300 05545 AFN77183.1           IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPV......A......EDL...ADADI..............  347
consensus                                       *!!!***** ** ***** ****  **    **                                 *
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X non conserved

X similar

X ≥ 50% conserved