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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1313 DR RS12030 WP 010888966.1         MSK....DATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE   75
NTDB id 1058608 ACFYH6 RS08570 WP 316342913.1 ...............MGNIDMDKLKAIENAMSQIEKQFGKGSVMKLGED.SSLNIEAISTGCLDLDIALGVGGVPKGRIVE   65
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 527 SMSK321 RS11065 WP 001085454.1     .M..AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE   76
NTDB id 499 SM12261 RS08315 WP 078228268.1     .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 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 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 1058608 ACFYH6 RS08570 WP 316342913.1  IYGPESSGKTTVALHIAAEAQKRGGAVAFIDAEHALDPSYARNLGVDTENLIVSQPDTGEQGLEIAEALVRSGAIDVIVV   145
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 527 SMSK321 RS11065 WP 001085454.1      IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV   156
NTDB id 499 SM12261 RS08315 WP 078228268.1      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             IYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETTIARSGAVDLIVV   142
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1211 C694 RS00795 WP 000963128.1        IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV   144
NTDB id 1334 RAOC 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 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 1058608 ACFYH6 RS08570 WP 316342913.1  DSVAALVPRAEIDGEMGDSHVGLQARLMSQALRKLTGTIQKTGCVAIFINQLREKVGVM.FGNPETTTGGRALKFYASVR   224
NTDB id 600 KW2 RS01765 WP 011675413.1          DSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLACHINKTKTTAIFINQLREKVGVM.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 527 SMSK321 RS11065 WP 001085454.1      DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR   235
NTDB id 499 SM12261 RS08315 WP 078228268.1      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 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 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          LDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDER   310
NTDB id 1058608 ACFYH6 RS08570 WP 316342913.1  LDVRRIDSIKQGE.....SIVGNRTRVKVMKNKVAPPFKQAEFDIMYNEGISRTGNIVDVGVKEGIVQKSGAWFSYGDIR   299
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 527 SMSK321 RS11065 WP 001085454.1      LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 499 SM12261 RS08315 WP 078228268.1      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             LDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDKK   297
NTDB id 1214 NCTC11637 00359 SQJ03206.1         IDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1211 C694 RS00795 WP 000963128.1        IDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1334 RA0C 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
NTDB id 1124 NGFG RS03960 WP 003688695.1        LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK   297
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 1205 PSJM300 05545 AFN77183.1           LDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGSK   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
consensus                                       ***!*            *  ** ****!**!!!*!*!!* *  ******!***  ****  **   *** ! !*****!   *
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logo

NTDB id 1313 DR RS12030 WP 010888966.1          IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA......PEAAEA.....................  363
NTDB id 1058608 ACFYH6 RS08570 WP 316342913.1  LGQGRENAKQYLKDNPETALDIENQIRSKYELPIMQETTVKAKKDKEKDKE.............................  350
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 527 SMSK321 RS11065 WP 001085454.1      IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 499 SM12261 RS08315 WP 078228268.1      IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..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 1389 A4U84 RS07560 WP 021112712.1       IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEFSE......EEL..............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERPE......E................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1        IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERPE......E................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1       IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT......QDE.TDGERPE......E................  348
NTDB id 1427 RS RS02760 WP 011000510.1          IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAV.TLAEEVEED................................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1     IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFGAVPE......EF...............  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFGAVPE......EF...............  354
NTDB id 1205 PSJM300 05545 AFN77183.1           IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI............................  347
NTDB id 1022 ACIAD RS06390 WP 004925639.1       IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.DLL..ES.......................  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1        IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.DLL..LE......S................  349
consensus                                       *!!!***** ** ***** ****  **   **              *
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X non conserved

X similar

X $\geq$ 50% conserved