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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1       MATKKK...TNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIV    76
NTDB id 269 KZH43 RS08665 WP 001085462.1     .MAKKP...KKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 228 SPD RS09265 WP 001085462.1       .MAKKP...KKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 194 SPR RS08825 WP 001085462.1       .MAKKP...KKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 159 SP RS09750 WP 001085462.1        .MAKKP...KKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .MAKKP...KKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 499 SM12261 RS08315 WP 078228268.1   .MAKKP...KKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 453 Spy49 1753c ACI62003.1           .MAKKL...KKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRII    75
NTDB id 408 SMU RS09530 WP 002262392.1       .MAKRI...KKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIV    75
NTDB id 115 BSU 16940 NP 389576.2            ....................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRII    60
NTDB id 625 LCA RS02525 WP 011374196.1       ..................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV    62
NTDB id 1313 DR RS12030 WP 010888966.1       .MSKD....ATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT    74
NTDB id 1245 Cj1673c YP 002345041.1          ...................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRII    61
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1211 C694 RS00795 WP 000963128.1     ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1334 RAOC RS04870 WP 004918236.1     ..........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV    70
NTDB id 1389 A4U84 RS07560 WP 021112712.1    .MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV    78
NTDB id 1130 NGFG RS03960 WP 003688695.1     ...................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIV    62
NTDB id 1124 NGFG RS03960 WP 003688695.1     ...................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIV    62
NTDB id 1123 OK783 RS03845 WP 003688695.1    ...................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIV    62
NTDB id 1427 RS RS02760 WP 011000510.1       .MEDGK........KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV    70
NTDB id 27598 SBAL RS16090 WP 011847432.1    ................MKVDPNKEKALAAVLIQIEKQFGKGSIMKLGED.RSMDVETISTGSLSLDVALGAGGLPMGRIV    63
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1205 PSJM300 05545 AFN77183.1        ...................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIV    61
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ...................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV    61
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ...................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRII    61
consensus                                                                  ** ***  ** ***! *!!********      *  ***!!**!!*!!! !! !*!!**
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      EIYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVV  156
NTDB id 269 KZH43 RS08665 WP 001085462.1    EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 228 SPD RS09265 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 194 SPR RS08825 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 159 SP RS09750 WP 001085462.1       EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 527 SMSK321 RS11065 WP 001085454.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 499 SM12261 RS08315 WP 078228268.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 453 Spy49 1753c ACI62003.1          EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 408 SMU RS09530 WP 002262392.1     EIYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV  155
NTDB id 115 BSU 16940 NP 389576.2           EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVV  140
NTDB id 625 LCA RS02525 WP 011374196.1      EIYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILV  142
NTDB id 1313 DR RS12030 WP 010888966.1      EIYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVV  154
NTDB id 1245 Cj1673c YP 002345041.1         EIYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIV  141
NTDB id 1214 NCTC11637 00359 SQJ03206.1     EIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVV  143
NTDB id 1211 C694 RS00795 WP 000963128.1    EIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVV  143
NTDB id 1334 RAOC RS04870 WP 004918236.1    EIYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVV  150
NTDB id 1389 A4U84 RS07560 WP 021112712.1   EIYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVII  158
NTDB id 1130 NGFG RS03960 WP 003688695.1    EIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVV  142
NTDB id 1124 NGFG RS03960 WP 003688695.1    EIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVV  142
NTDB id 1123 OK783 RS03845 WP 003688695.1   EIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVV  142
NTDB id 1427 RS RS02760 WP 011000510.1      EIYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLIV  150
NTDB id 27598 SBAL RS16090 WP 011847432.1   EIYGPESSGKTTLTLEVIAAAQREGKTCAFIDAEHALDPIYAKKLGVDIDNLLCSQPDTGEQALEICDALTRSGAVDVIV  143
NTDB id 1165 A1552VC RS01565 WP 000344154.1 EIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIV  141
NTDB id 1142 GTF74 RS11550 WP 000344154.1   EIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIV  141
NTDB id 1205 PSJM300 05545 AFN77183.1       EIYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVII  141
NTDB id 1022 ACIAD RS06390 WP 004925639.1   EIYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIV  141
NTDB id 1074 ABD1 RS10195 WP 000344167.1    EIYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIV  141
consensus                                   !**!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!*****!***!!!*!!!*!*! * ***!***!***
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      IDSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYASV   235
NTDB id 269 KZH43 RS08665 WP 001085462.1    VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 228 SPD RS09265 WP 001085462.1      VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 194 SPR RS08825 WP 001085462.1      VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 159 SP RS09750 WP 001085462.1       VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 527 SMSK321 RS11065 WP 001085454.1  VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 499 SM12261 RS08315 WP 078228268.1  VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 453 Spy49 1753c ACI62003.1          VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 408 SMU RS09530 WP 002262392.1      VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSSV   234
NTDB id 115 BSU 16940 NP 389576.2           VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSV   219
NTDB id 625 LCA RS02525 WP 011374196.1      VDSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYSTV   221
NTDB id 1313 DR RS12030 WP 010888966.1      VDSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYASV   233
NTDB id 1245 Cj1673c YP 002345041.1         VDSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASV   221
NTDB id 1214 NCTC11637 00359 SQJ03206.1     VDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASV   223
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NTDB id 1334 RA0C RS04870 WP 004918236.1    VDSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASV   229
NTDB id 1389 A4U84 RS07560 WP 021112712.1   VDSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASV   237
NTDB id 1130 NGFG RS03960 WP 003688695.1    VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSV   221
NTDB id 1124 NGFG RS03960 WP 003688695.1    VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSV   221
NTDB id 1123 OK783 RS03845 WP 003688695.1   VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSV   221
NTDB id 1427 RS RS02760 WP 011000510.1      IDSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   229
NTDB id 27598 SBAL RS16090 WP 011847432.1   VDSVAALTPKAEIEGEIGDSHMGLAARMMSQAMRKLAGNLKQSNTLLIFINQIRMKIGVM.FGNPETTTGGNALKFYASV   222
NTDB id 1165 A1552VC RS01565 WP 000344154.1 VDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASV   220
NTDB id 1142 GTF74 RS11550 WP 000344154.1   VDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASV   220
NTDB id 1205 PSJM300 05545 AFN77183.1       VDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   220
NTDB id 1022 ACIAD RS06390 WP 004925639.1   VDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   220
NTDB id 1074 ABD1 RS10195 WP 000344167.1    VDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   220
consensus                                   *!!!!!! !*!!!*!**!!***!!*!!**!*!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**!
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logo
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NTDB id 269 KZH43 RS08665 WP 001085462.1    RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 228 SPD RS09265 WP 001085462.1      RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 194 SPR RS08825 WP 001085462.1      RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 159 SP RS09750 WP 001085462.1       RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 527 SMSK321 RS11065 WP 001085454.1  RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 499 SM12261 RS08315 WP 078228268.1  RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 453 Spy49 1753c ACI62003.1          RLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGE   313
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NTDB id 115 BSU 16940 NP 389576.2           RLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEEE   294
NTDB id 625 LCA RS02525 WP 011374196.1      RLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGSE   296
NTDB id 1313 DR RS12030 WP 010888966.1      RLDVRKIG....QPTKVGNDAVANTVKIKTVKNKVAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDE   309
NTDB id 1245 Cj1673c YP 002345041.1         RLDVRKVA....TL.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK   296
NTDB id 1214 NCTC11637 00359 SQJ03206.1     RIDIRRIA....AL.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1211 C694 RS00795 WP 000963128.1    RIDIRRIA....SL.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1334 RA0C RS04870 WP 004918236.1    RIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDT   309
NTDB id 1389 A4U84 RS07560 WP 021112712.1   RLDIRRCG....VV.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGT   312
NTDB id 1130 NGFG RS03960 WP 003688695.1    RLDIRRTG....SI.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
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NTDB id 1123 OK783 RS03845 WP 003688695.1   RLDIRRTG....SI.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
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NTDB id 27598 SBAL RS16090 WP 011847432.1   RLDIRRTG....AI.KDGDEVVGNETRVKVVKNKVAAPFKQAEFQILYGQGINRTGELVDLGVAHKLIEKAGAWYSYKGD   297
NTDB id 1165 A1552VC RS01565 WP 000344154.1 RLDIRRTG....AI.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD   295
NTDB id 1142 GTF74 RS11550 WP 000344154.1   RLDIRRTG....AI.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD   295
NTDB id 1205 PSJM300 05545 AFN77183.1       RLDIRRTG....AV.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGS   295
NTDB id 1022 ACIAD RS06390 WP 004925639.1   RLDIRRIG....QV.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGN   295
NTDB id 1074 ABD1 RS10195 WP 000344167.1    RLDIRRIG....QV.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGN   295
consensus                                   !****!*             *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** ! !*****!
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1        KIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.......  387
NTDB id 269 KZH43 RS08665 WP 001085462.1      KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 228 SPD RS09265 WP 001085462.1        KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 194 SPR RS08825 WP 001085462.1        KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 159 SP RS09750 WP 001085462.1         KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 527 SMSK321 RS11065 WP 001085454.1    KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 499 SM12261 RS08315 WP 078228268.1    KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 453 Spy49 1753c ACI62003.1            KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED.  378
NTDB id 408 SMU RS09530 WP 002262392.1        KIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED.  383
NTDB id 115 BSU 16940 NP 389576.2             RLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E........................  348
NTDB id 625 LCA RS02525 WP 011374196.1        RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE..............  355
NTDB id 1313 DR RS12030 WP 010888966.1        RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA............EA..............  363
NTDB id 1245 Cj1673c YP 002345041.1           KLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI.....SGSEDDEGEE............................  343
NTDB id 1214 NCTC11637 00359 SQJ03206.1       KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEPLEE............ME..............  347
NTDB id 1211 C694 RS00795 WP 000963128.1      KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEPLEE............ME..............  347
NTDB id 1334 RA0C RS04870 WP 004918236.1      KLGQGRDTVKELIKDNPELAEELEAKIREKLQAK...............................................  343
NTDB id 1389 A4U84 RS07560 WP 021112712.1     KIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS.....VLKATASDSN............DESDVEEFSEEEL...  372
NTDB id 1130 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETD...................GERPEE.....  348
NTDB id 1124 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETD...................GERPEE.....  348
NTDB id 1123 OK783 RS03845 WP 003688695.1     KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETD...................GERPEE.....  348
NTDB id 1427 RS RS02760 WP 011000510.1        RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG.....AVTLAE.EVE............ED..............  352
NTDB id 27598 SBAL RS16090 WP 011847432.1     KIGQGRANAGKYLTENPAIATEIDKTLRELLLSNPSA.....LAAKADASTE............DNVDLET.GEVF....  355
NTDB id 1165 A1552VC RS01565 WP 000344154.1   KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAA............DDVEFGAVPEEF....  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAA............DDVEFGAVPEEF....  354
NTDB id 1205 PSJM300 05545 AFN77183.1         KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN.....TKATPVAEDL............ADADI...........  347
NTDB id 1022 ACIAD RS06390 WP 004925639.1     KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD.....QTAA.HDETE............EEPDLLES........  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1      KIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN.....GAVQ.I.EDE............EEPDLLLES.......  349
consensus                                     **!!!***** ** ***** ****  **   **                                 **
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logo
                                                E
NTDB id 600 KW2 RS01765 WP 011675413.1          .   387
NTDB id 269 KZH43 RS08665 WP 001085462.1        E   388
NTDB id 228 SPD RS09265 WP 001085462.1          E   388
NTDB id 194 SPR RS08825 WP 001085462.1          E   388
NTDB id 159 SP RS09750 WP 001085462.1           E   388
NTDB id 527 SMSK321 RS11065 WP 001085454.1      E   384
NTDB id 499 SM12261 RS08315 WP 078228268.1      E   384
NTDB id 453 Spy49 1753c ACI62003.1              .   378
NTDB id 408 SMU RS09530 WP 002262392.1          .   383
NTDB id 115 BSU 16940 NP 389576.2               .   348
NTDB id 625 LCA RS02525 WP 011374196.1          .   355
NTDB id 1313 DR RS12030 WP 010888966.1          .   363
NTDB id 1245 Cj1673c YP 002345041.1             .   343
NTDB id 1214 NCTC11637 00359 SQJ03206.1         .   347
NTDB id 1211 C694 RS00795 WP 000963128.1        .   347
NTDB id 1334 RA0C RS04870 WP 004918236.1        .   343
NTDB id 1389 A4U84 RS07560 WP 021112712.1       .   372
NTDB id 1130 NGFG RS03960 WP 003688695.1        .   348
NTDB id 1124 NGFG RS03960 WP 003688695.1        .   348
NTDB id 1123 OK783 RS03845 WP 003688695.1       .   348
NTDB id 1427 RS RS02760 WP 011000510.1          .   352
NTDB id 27598 SBAL RS16090 WP 011847432.1       .   355
NTDB id 1165 A1552VC RS01565 WP 000344154.1     .   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       .   354
NTDB id 1205 PSJM300 05545 AFN77183.1           .   347
NTDB id 1022 ACIAD RS06390 WP 004925639.1       .   349
NTDB id 1074 ABD1 RS10195 WP 000344167.1        .   349
consensus
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X non conserved
X similar
X $\geq$50% conserved