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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 499 SM12261 RS08315 WP 078228268.1   .MAKKP...KKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .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 1211 C694 RS00795 WP 000963128.1     ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1334 RAOC RS04870 WP 004918236.1     .MA........KTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV    70
NTDB id 261052 CUV01 RS00815 WP 101461761.1  .MAT.....ASILDMNDKRSADKQKALDSALAQIERQFGKGSIMKLGKDSPVTEIEATSTGSLGLDIALGIGGLPKGRIV    74
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       .MEDG........KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV    70
NTDB id 1165 A1552VC RS01565 WP 000344154.1  ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ...................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV    61
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ...................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRII    61
NTDB id 1205 PSJM300 05545 AFN77183.1        ...................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIV    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 499 SM12261 RS08315 WP 078228268.1   EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 527 SMSK321 RS11065 WP 001085454.1   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 1211 C694 RS00795 WP 000963128.1      EIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVV   143
NTDB id 1214 NCTC11637 00359 SQJ03206.1       EIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVV   143
NTDB id 1334 RA0C RS04870 WP 004918236.1      EIYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVV   150
NTDB id 261052 CUV01 RS00815 WP 101461761.1  EIYGPESSGKTTLTLHAVAEEQKKGGVCAFVDAEHALDPQYARKLGVNLDELLISQPDTGEQALEIVDTLVRSGAVSMVV   154
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 1165 A1552VC RS01565 WP 000344154.1  EIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIV   141
NTDB id 1142 GTF74 RS11550 WP 000344154.1    EIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIV   141
NTDB id 1022 ACIAD RS06390 WP 004925639.1    EIYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIV   141
NTDB id 1074 ABD1 RS10195 WP 000344167.1     EIYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIV   141
NTDB id 1205 PSJM300 05545 AFN77183.1        EIYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVII   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 499 SM12261 RS08315 WP 078228268.1    VDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASV   234
NTDB id 527 SMSK321 RS11065 WP 001085454.1    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 1211 C694 RS00795 WP 000963128.1      VDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASV   223
NTDB id 1214 NCTC11637 00359 SQJ03206.1       VDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASV   223
NTDB id 1334 RA0C RS04870 WP 004918236.1      VDSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASV   229
NTDB id 261052 CUV01 RS00815 WP 101461761.1   IDSVAALTPKAEIEGDMGDHQVGAQARLMSQAMRKLTASIGRSNCMVIFINQIRMKIGVM.FGSPETTSGGNALKFYASV   233
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 1165 A1552VC RS01565 WP 000344154.1   VDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASV   220
NTDB id 1142 GTF74 RS11550 WP 000344154.1     VDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASV   220
NTDB id 1022 ACIAD RS06390 WP 004925639.1     VDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   220
NTDB id 1074 ABD1 RS10195 WP 000344167.1      VDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   220
NTDB id 1205 PSJM300 05545 AFN77183.1         VDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.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 499 SM12261 RS08315 WP 078228268.1    RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 527 SMSK321 RS11065 WP 001085454.1    RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 453 Spy49 1753c ACI62003.1            RLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGE   313
NTDB id 408 SMU RS09530 WP 002262392.1        RLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNGE   313
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....QPTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDE   309
NTDB id 1245 Cj1673c YP 002345041.1           RLDVRKVA....TL.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK   296
NTDB id 1211 C694 RS00795 WP 000963128.1      RIDIRRIA....SL.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1214 NCTC11637 00359 SQJ03206.1       RIDIRRIA....AL.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1334 RAOC RS04870 WP 004918236.1      RIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDT   309
NTDB id 261052 CUV01 RS00815 WP 101461761.1   RLDIRRIG....SI.KDRDEVVGNTTRVKVVKNKVAPPFRQVEFDIMYGEGISKMGELVDLGVKAGVVEKSGSWYSYGDE   308
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
NTDB id 1427 RS RS02760 WP 011000510.1        RLDIRRIG....SI.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGE   304
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 1022 ACIAD RS06390 WP 004925639.1     RLDIRRIG....QV.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGN   295
NTDB id 1074 ABD1 RS10195 WP 000344167.1      RLDIRRIG....QV.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGN   295
NTDB id 1205 PSJM300 05545 AFN77183.1         RLDIRRTG....AV.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGS   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 499 SM12261 RS08315 WP 078228268.1    KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIE   383
NTDB id 527 SMSK321 RS11065 WP 001085454.1    KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..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        RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE..A........................   363
NTDB id 1245 Cj1673c YP 002345041.1           KLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI.....SGSEDDEG..E..E........................   343
NTDB id 1211 C694 RS00795 WP 000963128.1      KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEPL..E..EME......................   347
NTDB id 1214 NCTC11637 00359 SQJ03206.1       KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEPL..E..EME......................   347
NTDB id 1334 RAOC RS04870 WP 004918236.1      KLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.........................................   343
NTDB id 261052 CUV01 RS00815 WP 101461761.1   RIGQGRENAKQYLRDHADIAYAIEDKIRASHGLDFGT.....GEGAGDELLSE..D........................   357
NTDB id 1389 A4U84 RS07560 WP 021112712.1     KIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS.....VLKATASDSND..ESDVEEFSEEEL.............   372
NTDB id 1130 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGE..R......PEE...............   348
NTDB id 1124 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGE..R......PEE...............   348
NTDB id 1123 OK783 RS03845 WP 003688695.1     KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGE..R......PEE...............   348
NTDB id 1427 RS RS02760 WP 011000510.1        RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG.....AVTLA.EEVEE..D........................   352
NTDB id 1165 A1552VC RS01565 WP 000344154.1   KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAAD..DVEFGAVPEEF..............   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAAD..DVEFGAVPEEF..............   354
NTDB id 1022 ACIAD RS06390 WP 004925639.1     KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD.....QTAA.HDETEE..EPDLL..ES................   349
NTDB id 1074 ABD1 RS10195 WP 000344167.1      KIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN.....GAVQ.I.EDEE..EPDLL..LES................   349
NTDB id 1205 PSJM300 05545 AFN77183.1         KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN.....TKATPVAEDLA..DADI.....................   347
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 499 SM12261 RS08315 WP 078228268.1      E   384
NTDB id 527 SMSK321 RS11065 WP 001085454.1      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 1211 C694 RS00795 WP 000963128.1        .   347
NTDB id 1214 NCTC11637 00359 SQJ03206.1         .   347
NTDB id 1334 RA0C RS04870 WP 004918236.1        .   343
NTDB id 261052 CUV01 RS00815 WP 101461761.1     .   357
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 1165 A1552VC RS01565 WP 000344154.1     .   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1       .   354
NTDB id 1022 ACIAD RS06390 WP 004925639.1       .   349
NTDB id 1074 ABD1 RS10195 WP 000344167.1        .   349
NTDB id 1205 PSJM300 05545 AFN77183.1           .   347
consensus
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X non conserved
X similar
X ≥ 50% conserved