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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1        MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIV    76
NTDB id 269 KZH43 RS08665 WP 001085462.1      .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 228 SPD RS09265 WP 001085462.1        .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 194 SPR RS08825 WP 001085462.1        .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 159 SP RS09750 WP 001085462.1         .MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 499 SM12261 RS08315 WP 078228268.1    .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 527 SMSK321 RS11065 WP 001085454.1    .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 453 Spy49 1753c ACI62003.1            .MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRII    75
NTDB id 408 SMU RS09530 WP 002262392.1        .MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.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 1122573 EL210 RS04455 WP 004371104.1  .MA.........KEAVANQQSEKLKALQAAMSKIEKDFGKGSIMRMGDEQIE.NVETIPTGSIGLDVALGVGGYPRGRII    69
NTDB id 1334 RAOC RS04870 WP 004918236.1      .MA.........KTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV    70
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 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 1122573 EL210 RS04455 WP 004371104.1   EIYGPESSGKTTLAIHAIAEAQKKGGIAAFIDAEHAFDRFYAAKLGVDVDNLWISQPDNGEQALQIADELIRSSAVDILV   149
NTDB id 1334 RAOC RS04870 WP 004918236.1        EIYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVV   150
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 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 1122573 EL210 RS04455 WP 004371104.1    VDSVAALTPKKEIEGDMGDNVVGLQARLMSQALRKLTSTISKTNTCCIFINQLREKIGVM.FGSPETTTGGNALKFYSSV   228
NTDB id 1334 RAOC RS04870 WP 004918236.1        VDSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASV   229
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 1389 A4U84 RS07560 WP 021112712.1       VDSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASV   237
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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
NTDB id 600 KW2 RS01765 WP 011675413.1      RLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYNDE   314
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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
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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      RLDVRKIGQP....TKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDE   309
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NTDB id 1334 RAOC RS04870 WP 004918236.1    RIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDT   309
NTDB id 1245 Cj1673c YP 002345041.1         RLDVRKVATL.....KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK   296
NTDB id 1211 C694 RS00795 WP 000963128.1    RIDIRRIASL.....KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
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NTDB id 1123 OK783 RS03845 WP 003688695.1   RLDIRRTGSI.....KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
NTDB id 1427 RS RS02760 WP 011000510.1      RLDIRRIGSI.....KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGE   304
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NTDB id 1074 ABD1 RS10195 WP 000344167.1    RLDIRRIGQV.....KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGN   295
NTDB id 1205 PSJM300 05545 AFN77183.1       RLDIRRTGAV.....KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGS   295
consensus                                   !***!*   *         *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** ! !****!
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logo
                                                  KIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.......
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 1122573 EL210 RS04455 WP 004371104.1      KLAQGRDATKALLRDNPELCEELEGLITQAIEDKKA.......................................  339
NTDB id 1334 RAOC RS04870 WP 004918236.1          KLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.........................................  343
NTDB id 1245 Cj1673c YP 002345041.1               KLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI.....SGSEDDE..GE..E...................  343
NTDB id 1211 C694 RS00795 WP 000963128.1          KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEP..LE..EME..................  347
NTDB id 1214 NCTC11637 00359 SQJ03206.1           KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDEP..LE..EME..................  347
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 1122573 EL210 RS04455 WP 004371104.1    .   339
NTDB id 1334 RAOC RS04870 WP 004918236.1        .   343
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 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 $\geq$ 50% conserved