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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1       MATK....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEAANQ.KVSVVSSGSLALDIALGAGGYPKGRI    75
NTDB id 269 KZH43 RS08665 WP 001085462.1     .MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 228 SPD RS09265 WP 001085462.1       .MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 194 SPR RS08825 WP 001085462.1       .MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 159 SP RS09750 WP 001085462.1        .MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .MAK....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
NTDB id 499 SM12261 RS08315 WP 078228268.1   .MAK....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI    74
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NTDB id 408 SMU RS09530 WP 002262392.1       .MAK....RIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGRI    74
NTDB id 115 BSU 16940 NP 389576.2            ......................MSDRQAALDMALKQIEKQFGKGSIMKLGEKTDT.RISTVPSGSLALDTALGIGGYPRGRI    59
NTDB id 625 LCA RS02525 WP 011374196.1       ...................MAKDERQAALDAALKKIEKNFGKGSIMRMGEKVDT.QVSTVSSGSLALDEALGVGGYPRGRI    61
NTDB id 1313 DR RS12030 WP 010888966.1       ......MSKDATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAESKL.DVQVVSTGSLSLDLALGVGGIPRGRI    73
NTDB id 1245 Cj1673c YP 002345041.1          ....................MDDNKRKSLDAALKSLDKTFGKGTILRLGDKEVE.QIDSIGTGSVGLDLALGIGGVPKGRI    60
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ..................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDKQVE.KIDAISTGSLGLDLALGIGGVPKGRI    62
NTDB id 1211 C694 RS00795 WP 000963128.1     ..................MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDKQVE.KIDSISTGSLGLDLALGIGGVPKGRI    62
NTDB id 1334 RAOC RS04870 WP 004918236.1     .........MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRI    69
NTDB id 1389 A4U84 RS07560 WP 021112712.1    MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQTEQL.DIESVSTGSLGLDLALGIGGLPMGRI    77
NTDB id 1130 NGFG RS03960 WP 003688695.1     ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 1124 NGFG RS03960 WP 003688695.1     ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 1123 OK783 RS03845 WP 003688695.1    ....................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRI    61
NTDB id 98858 AVS78 RS12915 WP 003812760.1   .MDD........K..TSKAAAAEKAKALAAALSQIEKQFGKGSIMRYGDNEVEHDIQVVSTGSLGLDIALGVGGLPRGRV    69
NTDB id 1427 RS RS02760 WP 011000510.1       MEDG........K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDAEVE.PVQVVSTGSLGLDVALGVGGLPRGRV    69
NTDB id 1165 A1552VC RS01565 WP 000344154.1  ....................MDENKQKALAAALGQIEKQFGKGSIMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGRI    60
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ....................MDENKQKALAAALGQIEKQFGKGSIMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGRI    60
NTDB id 1205 PSJM300 05545 AFN77183.1        ....................MDENKKRALAAALGQIEKQFGKGAVMRMGDHDRQ.AIPSISTGSLGLDIALGIGGLPKGRI    60
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ....................MDDNKSKALQAALSQIEKQFGKNTVMRLGDNTVQ.AVEAVSTGSLTLDIALGIGGLPKGRI    60
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ....................MDENKSKALQAALSQIEKQFGKNTVMRLGDNTVQ.AVEAVSTGSLTLDIALGIGGLPKGRI    60
consensus                                                          ** ***  ** ***! *!!********      *  ***!!**!!*!!! !! !*!!*
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      VEIYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLV   155
NTDB id 269 KZH43 RS08665 WP 001085462.1    IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 228 SPD RS09265 WP 001085462.1      IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 194 SPR RS08825 WP 001085462.1      IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 159 SP RS09750 WP 001085462.1       IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 527 SMSK321 RS11065 WP 001085454.1  IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 499 SM12261 RS08315 WP 078228268.1  IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 453 Spy49 1753c ACI62003.1          IEIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 408 SMU RS09530 WP 002262392.1      VEIYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLV   154
NTDB id 115 BSU 16940 NP 389576.2           IEVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIV   139
NTDB id 625 LCA RS02525 WP 011374196.1      VEIYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDIL   141
NTDB id 1313 DR RS12030 WP 010888966.1      TEIYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVV   153
NTDB id 1245 Cj1673c YP 002345041.1         IEIYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLI   140
NTDB id 1214 NCTC11637 00359 SQJ03206.1     IEIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLV   142
NTDB id 1211 C694 RS00795 WP 000963128.1    IEIYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLV   142
NTDB id 1334 RA0C RS04870 WP 004918236.1    VEIYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIV   149
NTDB id 1389 A4U84 RS07560 WP 021112712.1   VEIYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVI   157
NTDB id 1130 NGFG RS03960 WP 003688695.1    VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 1124 NGFG RS03960 WP 003688695.1    VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 1123 OK783 RS03845 WP 003688695.1   VEIFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMV   141
NTDB id 98858 AVS78 RS12915 WP 003812760.1  IEVYGPESSGKTTLTLQVIAEMQKLGGTCAFVDAEHALDVQYASKLGVNLTDLLISQPDTGEQALEITDALVRSGSVDLI   149
NTDB id 1427 RS RS02760 WP 011000510.1      VEIYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLI   149
NTDB id 1165 A1552VC RS01565 WP 000344154.1 VEIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVI   140
NTDB id 1142 GTF74 RS11550 WP 000344154.1   VEIFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVI   140
NTDB id 1205 PSJM300 05545 AFN77183.1       VEIYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVI   140
NTDB id 1022 ACIAD RS06390 WP 004925639.1   VEIYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLI   140
NTDB id 1074 ABD1 RS10195 WP 000344167.1    IEIYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLI   140
consensus                                   *!**!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  !!******!***!!!*!!!*!*! * ***!***!**
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      VIDSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYAS   234
NTDB id 269 KZH43 RS08665 WP 001085462.1    VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 228 SPD RS09265 WP 001085462.1      VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 194 SPR RS08825 WP 001085462.1      VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 159 SP RS09750 WP 001085462.1       VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 527 SMSK321 RS11065 WP 001085454.1  VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 499 SM12261 RS08315 WP 078228268.1  VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 453 Spy49 1753c ACI62003.1          VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYAS   233
NTDB id 408 SMU RS09530 WP 002262392.1     VVDSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSS   233
NTDB id 115 BSU 16940 NP 389576.2           VVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSS   218
NTDB id 625 LCA RS02525 WP 011374196.1      VVDSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYST   220
NTDB id 1313 DR RS12030 WP 010888966.1      VVDSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYAS   232
NTDB id 1245 Cj1673c YP 002345041.1         VVDSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYAS   220
NTDB id 1214 NCTC11637 00359 SQJ03206.1     VVDSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYAS   222
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NTDB id 1334 RA0C RS04870 WP 004918236.1    VVDSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYAS   228
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NTDB id 1124 NGFG RS03960 WP 003688695.1    VVDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSS   220
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NTDB id 98858 AVS78 RS12915 WP 003812760.1  VIDSVAALVPKAEIEGEMGDSLPGLQARLMSQALRKLTATIKRTNCMVIFINQIRMKIGVM.FGNPETTTGGNALKFYSS   228
NTDB id 1427 RS RS02760 WP 011000510.1      VIDSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   228
NTDB id 1165 A1552VC RS01565 WP 000344154.1 VVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYAS   219
NTDB id 1142 GTF74 RS11550 WP 000344154.1   VVDSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYAS   219
NTDB id 1205 PSJM300 05545 AFN77183.1       IVDSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
NTDB id 1022 ACIAD RS06390 WP 004925639.1   VVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
NTDB id 1074 ABD1 RS10195 WP 000344167.1    VVDSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYAS   219
consensus                                   **!!!!!!*!*!!!*!**!!***!!*!!**!*!*!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**
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logo
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NTDB id 269 KZH43 RS08665 WP 001085462.1      VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 228 SPD RS09265 WP 001085462.1        VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 194 SPR RS08825 WP 001085462.1        VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 159 SP RS09750 WP 001085462.1         VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 527 SMSK321 RS11065 WP 001085454.1    VRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 499 SM12261 RS08315 WP 078228268.1    VRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKD   312
NTDB id 453 Spy49 1753c ACI62003.1            VRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNG   312
NTDB id 408 SMU RS09530 WP 002262392.1        VRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNG   312
NTDB id 115 BSU 16940 NP 389576.2             VRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEE   293
NTDB id 625 LCA RS02525 WP 011374196.1        VRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGS   295
NTDB id 1313 DR RS12030 WP 010888966.1        VRLDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGD   308
NTDB id 1245 Cj1673c YP 002345041.1           VRLDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKD   295
NTDB id 1214 NCTC11637 00359 SQJ03206.1       VRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQD   297
NTDB id 1211 C694 RS00795 WP 000963128.1      VRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQD   297
NTDB id 1334 RAOC RS04870 WP 004918236.1      VRIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQD   308
NTDB id 1389 A4U84 RS07560 WP 021112712.1     VRLDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDG   311
NTDB id 1130 NGFG RS03960 WP 003688695.1      VRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG   295
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NTDB id 1123 OK783 RS03845 WP 003688695.1     VRLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG   295
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NTDB id 1427 RS RS02760 WP 011000510.1        VRLDIRRIGS....I.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNG   303
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NTDB id 1142 GTF74 RS11550 WP 000344154.1     VRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNG   294
NTDB id 1205 PSJM300 05545 AFN77183.1         VRLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKG   294
NTDB id 1022 ACIAD RS06390 WP 004925639.1     VRLDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQG   294
NTDB id 1074 ABD1 RS10195 WP 000344167.1      VRLDIRRIGQ....V.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQG   294
consensus                                     !!****!*            *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** ! !****!
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1        EKIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAE..TEEETTASKTKAKAKKEEKAVETEEIELELED....   387
NTDB id 269 KZH43 RS08665 WP 001085462.1      EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE..QDTENKKDE....PKKEEA..VNEEVPLDLGDELEI   384
NTDB id 228 SPD RS09265 WP 001085462.1        EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE..QDTENKKDE....PKKEEA..VNEEVPLDLGDELEI   384
NTDB id 194 SPR RS08825 WP 001085462.1        EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE..QDTENKKDE....PKKEEA..VNEEVPLDLGDELEI   384
NTDB id 159 SP RS09750 WP 001085462.1         EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSE..QDTENKKDE....PKKEEA..VNEEVPLDLGDELEI   384
NTDB id 527 SMSK321 RS11065 WP 001085454.1    EKIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE......SKKDE....VAQVDS..VNEEVTLDLGDELEI   380
NTDB id 499 SM12261 RS08315 WP 078228268.1    EKIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE......SKKDE....AAQVDS..VNEEVTLDLGDELEI   380
NTDB id 453 Spy49 1753c ACI62003.1            EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEES..AMAVASE.......E.......TDDLALDLDNGIEI   376
NTDB id 408 SMU RS09530 WP 002262392.1        EKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEE..KQSSKEK.......ETDEK..ADKNLVLELDDTIEL   381
NTDB id 115 BSU 16940 NP 389576.2             ERLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQ..QAEETQEEL.EFE.E......................   348
NTDB id 625 LCA RS02525 WP 011374196.1        ERIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDL..PTTEDE.QI.NILPDDST.....EE...........   355
NTDB id 1313 DR RS12030 WP 010888966.1        ERIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA.EA.......................   363
NTDB id 1245 Cj1673c YP 002345041.1           KKLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMIS..GSE....DDEGE.E........................   343
NTDB id 1214 NCTC11637 00359 SQJ03206.1       KKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME......................   347
NTDB id 1211 C694 RS00795 WP 000963128.1      KKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIM..PLP....DEPLE.EME......................   347
NTDB id 1334 RAOC RS04870 WP 004918236.1      TKLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.............................................   343
NTDB id 1389 A4U84 RS07560 WP 021112712.1     TKIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSV..LKATASDSNDES.DVEEF......SEEEL..........   372
NTDB id 1130 NGFG RS03960 WP 003688695.1      AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHIT..E......GTQDE.TDGER......PEE............   348
NTDB id 1124 NGFG RS03960 WP 003688695.1      AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHIT..E......GTQDE.TDGER......PEE............   348
NTDB id 1123 OK783 RS03845 WP 003688695.1     AKIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHIT..E......GTQDE.TDGER......PEE............   348
NTDB id 98858 AVS78 RS12915 WP 003812760.1    NRIGQGKDNVREYLKEHKEMAIEIENKVRENQGIVSRAA..T.FPASEAEDGE...........................   353
NTDB id 1427 RS RS02760 WP 011000510.1        ERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGA..V.TLAEEVEED............................   352
NTDB id 1165 A1552VC RS01565 WP 000344154.1   DKIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQ..LIAETSSAADDV.EFGAV......PEEF...........   354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     DKIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQ..LIAETSSAADDV.EFGAV......PEEF...........   354
NTDB id 1205 PSJM300 05545 AFN77183.1         SKIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANT..KATPVAEDLADA.DI........................   347
NTDB id 1022 ACIAD RS06390 WP 004925639.1     NKIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQ..TAA.HDETEEEP.DLL........ES.............   349
NTDB id 1074 ABD1 RS10195 WP 000344167.1      NKIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNG..AVQ.I.EDEEEP.DLL........LES............   349
consensus                                      **!!!***** ** * *** ****  **    **                  *
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logo
                                                EIEE
NTDB id 600 KW2 RS01765 WP 011675413.1          ....   387
NTDB id 269 KZH43 RS08665 WP 001085462.1        EIEE   388
NTDB id 228 SPD RS09265 WP 001085462.1          EIEE   388
NTDB id 194 SPR RS08825 WP 001085462.1          EIEE   388
NTDB id 159 SP RS09750 WP 001085462.1           EIEE   388
NTDB id 527 SMSK321 RS11065 WP 001085454.1      EIEE   384
NTDB id 499 SM12261 RS08315 WP 078228268.1      EIEE   384
NTDB id 453 Spy49 1753c ACI62003.1              ED..   378
NTDB id 408 SMU RS09530 WP 002262392.1          ED..   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 98858 AVS78 RS12915 WP 003812760.1      ....   353
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 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 ≥ 50% conserved