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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 527 SMSK321 RS11065 WP 001085454.1     .MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 499 SM12261 RS08315 WP 078228268.1     .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         .MSK....DATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT    74
NTDB id 72413 myaer102 RS27155 WP 125732242.1 .............MATMTNNSDRDKALGLVLTQIERNFGKGSIMRLGDA.TRMRVETVPSGALTLDMALG.GGLPKGRIV    65
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       ..........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         .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 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 72413 myaer102 RS27155 WP 125732242.1  EIYGPESSGKTTLALHAIAEVQKAGGVAAFVDAEHALDPTYSEDLGVDINNLLVAQPDTGEAALEIVDQLVRSSAVDIVV   145
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 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 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 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 72413 myaer102 RS27155 WP 125732242.1  IDSVAALVPRAEIEGEMGDNQVGLQARLMSKALRKIAGNIGKSGCVVIFLNQLRQKIGVT.YGNPEVTTGGTALKFYASV   224
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 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
NTDB id 600 KW2 RS01765 WP 011675413.1          RLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYNDE   314
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
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NTDB id 499 SM12261 RS08315 WP 078228268.1      RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
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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          RLDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDE   309
NTDB id 72413 myaer102 RS27155 WP 125732242.1  RLDIRRIQT....LKKGTEGEYGIRAKVKVAKNKVAPPFRIAEFDIIFGKGISQVGCMLDIAEQTNVVTRKGAWYSYNGE   300
NTDB id 1245 Cj1673c YP 002345041.1             RLDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK   296
NTDB id 1211 C694 RS00795 WP 000963128.1        RIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1214 NCTC11637 00359 SQJ03206.1         RIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK   298
NTDB id 1334 RA0C RS04870 WP 004918236.1        RIDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDT   309
NTDB id 1389 A4U84 RS07560 WP 021112712.1       RLDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGT   312
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NTDB id 1124 NGFG RS03960 WP 003688695.1        RLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
NTDB id 1123 OK783 RS03845 WP 003688695.1       RLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
NTDB id 1427 RS RS02760 WP 011000510.1          RLDIRRIGS....I.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGE   304
NTDB id 1165 A1552VC RS01565 WP 000344154.1     RLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD   295
NTDB id 1142 GTF74 RS11550 WP 000344154.1       RLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD   295
NTDB id 1022 ACIAD RS06390 WP 004925639.1       RLDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGN   295
NTDB id 1074 ABD1 RS10195 WP 000344167.1        RLDIRRIGQ....V.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGN   295
NTDB id 1205 PSJM300 05545 AFN77183.1           RLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGS   295
consensus                                       !***!*             *  ** ****!**!!!*!*!!* *  ****!*!*** **** **   *** * !****!
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logo
                                                 KIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.......  387
NTDB id 600 KW2 RS01765 WP 011675413.1
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           RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA..........................  363
NTDB id 72413 myaer102 RS27155 WP 125732242.1   NIAQGRDNAVKYLEERPEVAAEIEKLLRDKLDMGSVP.....FPTEPADEDDED.EL..E..PEI...............  355
NTDB id 1245 Cj1673c YP 002345041.1              KLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMI.....SGSEDD..EGEE..........................  343
NTDB id 1211 C694 RS00795 WP 000963128.1         KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDE..PLEEME........................  347
NTDB id 1214 NCTC11637 00359 SQJ03206.1          KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI.....MPLPDE..PLEEME........................  347
NTDB id 1334 RAOC RS04870 WP 004918236.1         KLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.......................................  343
NTDB id 1389 A4U84 RS07560 WP 021112712.1        KIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNS.....VLKATASDSNDESDV..EEFSEEEL.............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1         KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER........PEE................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1         KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER........PEE................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1        KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI.....TEGTQDETDGER........PEE................  348
NTDB id 1427 RS RS02760 WP 011000510.1           RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMG.....AVTLA.EEVEED...........................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1      KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAADDVEF..GAVPEEF..............  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1        KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENM.....QLIAETSSAADDVEF..GAVPEEF..............  354
NTDB id 1022 ACIAD RS06390 WP 004925639.1        KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASD.....QTAA.HDETEEEPDL..L..ES................  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1         KIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTN.....GAVQ.I.EDEEEPDL..L..LES................  349
NTDB id 1205 PSJM300 05545 AFN77183.1            KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN.....TKATPVAEDLADADI.......................  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 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 72413 myaer102 RS27155 WP 125732242.1   .   355
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 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