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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 600 KW2 RS01765 WP 011675413.1       MATKKKT...NFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEAAN.QKVSVVSSGSLALDIALGAGGYPKGRIV    76
NTDB id 269 KZH43 RS08665 WP 001085462.1     .MAKKPK...KLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 228 SPD RS09265 WP 001085462.1       .MAKKPK...KLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 194 SPR RS08825 WP 001085462.1       .MAKKPK...KLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 159 SP RS09750 WP 001085462.1        .MAKKPK...KLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .MAKKPK...KLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 499 SM12261 RS08315 WP 078228268.1   .MAKKPK...KLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERAE.QKVQVMSSGSLALDIALGSGGYPKGRII    75
NTDB id 453 Spy49 1753c ACI62003.1           .MAKKLK...KNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERAE.QKVQVMSSGSLALDIALGAGGYPKGRII    75
NTDB id 408 SMU RS09530 WP 002262392.1       .MAKRIK...KTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGERAE.QKVQVMSSGSLALDIALGAGGYPKGRIV    75
NTDB id 115 BSU 16940 NP 389576.2            ....................MSDRQAALDMALKQIEKQFGKGSIMKLGEKTD.TRISTVPSGSLALDTALGIGGYPRGRII    60
NTDB id 625 LCA RS02525 WP 011374196.1       ..................MAKDERQAALDAALKKIEKNFGKGSIMRMGEKVD.TQVSTVSSGSLALDEALGVGGYPRGRIV    62
NTDB id 1313 DR RS12030 WP 010888966.1       .MSKD....ATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAESK.LDVQVVSTGSLSLDLALGVGGIPRGRIT    74
NTDB id 1245 Cj1673c YP 002345041.1          ...................MDDNKRKSLDAALKSLDKTFGKGTILRLGDKEV.EQIDSIGTGSVGLDLALGIGGVPKGRII    61
NTDB id 1211 C694 RS00795 WP 000963128.1     ................MAIEDDKQKAISLAIKQIDKVFGKGALVRLGDKQV.EKIDSISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ................MAIEDDKQKAISLAIKQIDKVFGKGALVRLGDKQV.EKIDAISTGSLGLDLALGIGGVPKGRII    63
NTDB id 1334 RA0C RS04870 WP 004918236.1     ..........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIV    70
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 176836 A4W93 RS01155 WP 085748863.1 .........MDAAVKPATLNTEKAKALQAALAQIEKQFGKGTIMRLGEGEVIDDIDVVSTGSLGLDAALGVGGLPRGRVV    71
NTDB id 1427 RS RS02760 WP 011000510.1       .........MEDGKKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDAEV.EPVQVVSTGSLGLDVALGVGGLPRGRVV    70
NTDB id 1389 A4U84 RS07560 WP 021112712.1    .MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQTEQ.LDIESVSTGSLGLDLALGIGGLPMGRIV    78
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDNRA.MDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ...................MDENKQKALAAALGQIEKQFGKGSIMRLGDNRA.MDVETISTGSLSLDIALGAGGLPMGRIV    61
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ...................MDDNKSKALQAALSQIEKQFGKNTVMRLGDNTV.QAVEAVSTGSLTLDIALGIGGLPKGRIV    61
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ...................MDENKSKALQAALSQIEKQFGKNTVMRLGDNTV.QAVEAVSTGSLTLDIALGIGGLPKGRII    61
NTDB id 1205 PSJM300 05545 AFN77183.1        ...................MDENKKRALAAALGQIEKQFGKGAVMRMGDHDR.QAIPSISTGSLGLDIALGIGGLPKGRIV    61
consensus                                                                  **  ***   **  ***! *!!********       *   ***!!**!!*!!! !!  !*!!**
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logo
NTDB id 600 KW2 RS01765 WP 011675413.1      EIYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVV   156
NTDB id 269 KZH43 RS08665 WP 001085462.1    EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 228 SPD RS09265 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 194 SPR RS08825 WP 001085462.1      EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 159 SP RS09750 WP 001085462.1       EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 527 SMSK321 RS11065 WP 001085454.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 499 SM12261 RS08315 WP 078228268.1  EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 453 Spy49 1753c ACI62003.1          EIYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 408 SMU RS09530 WP 002262392.1      EIYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVV   155
NTDB id 115 BSU 16940 NP 389576.2           EVYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVV   140
NTDB id 625 LCA RS02525 WP 011374196.1      EIYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILV   142
NTDB id 1313 DR RS12030 WP 010888966.1      EIYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVV   154
NTDB id 1245 Cj1673c YP 002345041.1         EIYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIV   141
NTDB id 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 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 176836 A4W93 RS01155 WP 085748863.1 EIYGPESSGKTTLTLQVISEMQKLGGTCAFIDAEHALDVQYAQKLGVNLQDLLISQPDTGEQALEIVDALVRSASVDLVV   151
NTDB id 1427 RS RS02760 WP 011000510.1      EIYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLIV   150
NTDB id 1389 A4U84 RS07560 WP 021112712.1   EIYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVII   158
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 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 1130 NGFG RS03960 WP 003688695.1    VDSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSV   221
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NTDB id 176836 A4W93 RS01155 WP 085748863.1 VDSVAALTPKAEIEGEMGDSLPGLQARLMSQALRKLTGTIKKNNTMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   230
NTDB id 1427 RS RS02760 WP 011000510.1      IDSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASV   229
NTDB id 1389 A4U84 RS07560 WP 021112712.1   VDSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASV   237
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
NTDB id 527 SMSK321 RS11065 WP 001085454.1    RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 499 SM12261 RS08315 WP 078228268.1    RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDE   313
NTDB id 453 Spy49 1753c ACI62003.1            RLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGE   313
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 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 1130 NGFG RS03960 WP 003688695.1      RLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
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NTDB id 1123 OK783 RS03845 WP 003688695.1     RLDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGA   296
NTDB id 176836 A4W93 RS01155 WP 085748863.1  RLDIRRIGS....I.KKGEEVIGNETKVKVVKNKVSPPFKTAEFDILYGQGISREGEVIDMGVEAKVLEKSGSWYAYNGE   305
NTDB id 1427 RS RS02760 WP 011000510.1        RLDIRRIGS....I.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGE   304
NTDB id 1389 A4U84 RS07560 WP 021112712.1     RLDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGT   312
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
NTDB id 600 KW2 RS01765 WP 011675413.1        KIGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTK...AKAKKEEKAVETEEIELELED....  387
NTDB id 269 KZH43 RS08665 WP 001085462.1      KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.......PKKEEA..VNEEVPLDLGDELEI  384
NTDB id 228 SPD RS09265 WP 001085462.1        KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.......PKKEEA..VNEEVPLDLGDELEI  384
NTDB id 194 SPR RS08825 WP 001085462.1        KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.......PKKEEA..VNEEVPLDLGDELEI  384
NTDB id 159 SP RS09750 WP 001085462.1         KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.......PKKEEA..VNEEVPLDLGDELEI  384
NTDB id 527 SMSK321 RS11065 WP 001085454.1    KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAE....SKKDE.......VAQVDS..VNEEVTLDLGDELEI  380
NTDB id 499 SM12261 RS08315 WP 078228268.1    KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE.......AAQVDS..VNEEVTLDLGDELEI  380
NTDB id 453 Spy49 1753c ACI62003.1            KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE..........E.......TDDLALDLDNGIEI  376
NTDB id 408 SMU RS09530 WP 002262392.1        KIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK..........ETDEK..ADKNLVLELDDTIEL  381
NTDB id 115 BSU 16940 NP 389576.2             RLGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.E...FE.E......................  348
NTDB id 625 LCA RS02525 WP 011374196.1        RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.N...ILPDDST.....EE...........  355
NTDB id 1313 DR RS12030 WP 010888966.1        RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALA.PAP........AAPEAAEA.................  363
NTDB id 1245 Cj1673c YP 002345041.1           KLGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMISGSEDD..EGEE.............................  343
NTDB id 1211 C694 RS00795 WP 000963128.1      KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEME............................  347
NTDB id 1214 NCTC11637 00359 SQJ03206.1       KLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEME............................  347
NTDB id 1334 RA0C RS04870 WP 004918236.1      KLGQGRDTVKELIKDNPELAEELEAKIREKLQAK.............................................  343
NTDB id 1130 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGE........RPEE....................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1      KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGE........RPEE....................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1     KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGE........RPEE....................  348
NTDB id 176836 A4W93 RS01155 WP 085748863.1  KIGQGKDNAREFLKENPDLAVEIENKVREALGIPLLPVAEPVVAEAGKPAKKAKAAAPKDEE..................  367
NTDB id 1427 RS RS02760 WP 011000510.1        RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTL..AEEVEED.............................  352
NTDB id 1389 A4U84 RS07560 WP 021112712.1     KIGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDV..EEFSEEEL..................  372
NTDB id 1165 A1552VC RS01565 WP 000344154.1  KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDVEF..GAVPEEF...................  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     KIGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDVEF..GAVPEEF...................  354
NTDB id 1022 ACIAD RS06390 WP 004925639.1     KIGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEPDL..L..ES.....................  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1      KIGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEPDL..L..LES....................  349
NTDB id 1205 PSJM300 05545 AFN77183.1         KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI...........................  347
consensus                                     **!!!***** ** ***** ****  **    **               *
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logo

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                                                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 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 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 176836 A4W93 RS01155 WP 085748863.1     ....   367
NTDB id 1427 RS RS02760 WP 011000510.1          ....   352
NTDB id 1389 A4U84 RS07560 WP 021112712.1       ....   372
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