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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1313 DR RS12030 WP 010888966.1       MS....KDATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE    75
NTDB id 392071 GBA65 RS10905 WP 166396582.1  ....................MDKTKAIGAAVSQIEKAFGKGSIMRMGDE.GPKKMSSISTGALALDLALGIGGVPRGRIVE    60
NTDB id 600 KW2 RS01765 WP 011675413.1       MAT..KKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE    77
NTDB id 269 KZH43 RS08665 WP 001085462.1     .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 228 SPD RS09265 WP 001085462.1       .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 194 SPR RS08825 WP 001085462.1       .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 159 SP RS09750 WP 001085462.1        .MA..KKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 499 SM12261 RS08315 WP 078228268.1   .MA..KKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .MA..KKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE    76
NTDB id 408 SMU RS09530 WP 002262392.1       .MA..KRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE    76
NTDB id 453 Spy49 1753c ACI62003.1           .MA..KKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIIE    76
NTDB id 115 BSU 16940 NP 389576.2            ..................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRIIE    61
NTDB id 625 LCA RS02525 WP 011374196.1       ................MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVE    63
NTDB id 1245 Cj1673c YP 002345041.1          ................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIIE    62
NTDB id 1214 NCTC11637 00359 SQJ03206.1      ...............MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1211 C694 RS00795 WP 000963128.1     ...............MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIIE    64
NTDB id 1334 RAOC RS04870 WP 004918236.1     .........MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE    71
NTDB id 1389 A4U84 RS07560 WP 021112712.1    MAENKKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIVE    79
NTDB id 1130 NGFG RS03960 WP 003688695.1     ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1124 NGFG RS03960 WP 003688695.1     ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1123 OK783 RS03845 WP 003688695.1    ..................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE    63
NTDB id 1427 RS RS02760 WP 011000510.1       MEDG........KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVVE    71
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ..................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE    62
NTDB id 1142 GTF74 RS11550 WP 000344154.1    ..................MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE    62
NTDB id 1074 ABD1 RS10195 WP 000344167.1     ..................MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIIE    62
NTDB id 1022 ACIAD RS06390 WP 004925639.1    ..................MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE    62
NTDB id 1205 PSJM300 05545 AFN77183.1        ..................MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIVE    62
consensus                                                      ** ***  ** ***! *!!********      *  ***!***!!*!!! !! !*!!**!
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NTDB id 1313 DR RS12030 WP 010888966.1      IYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVVV  155
NTDB id 392071 GBA65 RS10905 WP 166396582.1 IYGPESSGKTTLALHVIAEAQKAGGLAAFIDAEHALDPTYAEAIGVDLENLYFSQPDNGEQALEIADTLIRSGALDVVVI  140
NTDB id 600 KW2 RS01765 WP 011675413.1      IYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVVI  157
NTDB id 269 KZH43 RS08665 WP 001085462.1    IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 228 SPD RS09265 WP 001085462.1      IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 194 SPR RS08825 WP 001085462.1      IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 159 SP RS09750 WP 001085462.1       IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 499 SM12261 RS08315 WP 078228268.1  IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 527 SMSK321 RS11065 WP 001085454.1  IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 408 SMU RS09530 WP 002262392.1      IYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 453 Spy49 1753c ACI62003.1          IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVVV  156
NTDB id 115 BSU 16940 NP 389576.2           VYGPESSGKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVVV  141
NTDB id 625 LCA RS02525 WP 011374196.1      IYGPESSGKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILVV  143
NTDB id 1245 Cj1673c YP 002345041.1         IYGPESSGKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIVV  142
NTDB id 1214 NCTC11637 00359 SQJ03206.1     IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV  144
NTDB id 1211 C694 RS00795 WP 000963128.1    IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV  144
NTDB id 1334 RAOC RS04870 WP 004918236.1    IYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVVV  151
NTDB id 1389 A4U84 RS07560 WP 021112712.1   IYGPESSGKTTLTLSLIAQAQKGNKTCAFIDAEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVIIV  159
NTDB id 1130 NGFG RS03960 WP 003688695.1    IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV  143
NTDB id 1124 NGFG RS03960 WP 003688695.1    IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV  143
NTDB id 1123 OK783 RS03845 WP 003688695.1   IFGPESSGKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVV  143
NTDB id 1427 RS RS02760 WP 011000510.1      IYGPESSGKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLIVI  151
NTDB id 1165 A1552VC RS01565 WP 000344154.1 IFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIVV  142
NTDB id 1142 GTF74 RS11550 WP 000344154.1   IFGPESSGKTTLTLELIAAAQREGKTCAFIDAEHALDPVYAKKLGVNIDELLVSQPDTGEQALEICDALARSGAVDVIVV  142
NTDB id 1074 ABD1 RS10195 WP 000344167.1    IYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV  142
NTDB id 1022 ACIAD RS06390 WP 004925639.1   IYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV  142
NTDB id 1205 PSJM300 05545 AFN77183.1       IYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVIIV  142
consensus                                   **!!!!*!!!!* ! **!  !* **  !**!!!*!*!* !!  *!*****!***!!!*!!!*!*! * ***!***!****
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logo
NTDB id 1313 DR RS12030 WP 010888966.1        DSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYASVR  234
NTDB id 392071 GBA65 RS10905 WP 166396582.1   DSVAALVPRAEIEGEMGDSHVGLQARLMSQALRKLSGSLSRSDTTAIFINQLREKIGVM.FGSPETTPGGRALKFYSSVR  219
NTDB id 600 KW2 RS01765 WP 011675413.1        DSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLACHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYASVR  236
NTDB id 269 KZH43 RS08665 WP 001085462.1      DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 228 SPD RS09265 WP 001085462.1        DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 194 SPR RS08825 WP 001085462.1        DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 159 SP RS09750 WP 001085462.1         DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 499 SM12261 RS08315 WP 078228268.1    DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 527 SMSK321 RS11065 WP 001085454.1    DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 408 SMU RS09530 WP 002262392.1        DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSSVR  235
NTDB id 453 Spy49 1753c ACI62003.1            DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR  235
NTDB id 115 BSU 16940 NP 389576.2             DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSVR  220
NTDB id 625 LCA RS02525 WP 011374196.1        DSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYSTVR  222
NTDB id 1245 Cj1673c YP 002345041.1           DSVAALTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASVR  222
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NTDB id 1211 C694 RS00795 WP 000963128.1      DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR  224
NTDB id 1334 RAOC RS04870 WP 004918236.1      DSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASVR  230
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NTDB id 1124 NGFG RS03960 WP 003688695.1      DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR  222
NTDB id 1123 OK783 RS03845 WP 003688695.1     DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR  222
NTDB id 1427 RS RS02760 WP 011000510.1        DSVAALVPKAEIEGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR  230
NTDB id 1165 A1552VC RS01565 WP 000344154.1   DSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR  221
NTDB id 1142 GTF74 RS11550 WP 000344154.1     DSVAALTPKAEIEGEMGDSHMGLQARMLSQAMRKLTGNLKQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR  221
NTDB id 1074 ABD1 RS10195 WP 000344167.1      DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR  221
NTDB id 1022 ACIAD RS06390 WP 004925639.1     DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR  221
NTDB id 1205 PSJM300 05545 AFN77183.1         DSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR  221
consensus                                     !!!!!!*!*!!!*!**!!***!!*!!**!*!*!!*** * ** ** *!!!!*! !*!*! *! !!*! !! !!!!!**!!
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logo
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NTDB id 392071 GBA65 RS10905 WP 166396582.1   LDVRRIGALKAGT.....DTVGNQTKVTVRKNKVAPPFKEVFFDIMYGEGISKEGSLLDMGIQHDVVQKSGAWFAYGDER   294
NTDB id 600 KW2 RS01765 WP 011675413.1        LDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYNDEK   315
NTDB id 269 KZH43 RS08665 WP 001085462.1      LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 228 SPD RS09265 WP 001085462.1        LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 194 SPR RS08825 WP 001085462.1        LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
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NTDB id 499 SM12261 RS08315 WP 078228268.1    LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 527 SMSK321 RS11065 WP 001085454.1    LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK   314
NTDB id 408 SMU RS09530 WP 002262392.1        LDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNGEK   314
NTDB id 453 Spy49 1753c ACI62003.1            LDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGEK   314
NTDB id 115 BSU 16940 NP 389576.2             LEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEEER   295
NTDB id 625 LCA RS02525 WP 011374196.1        LEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGSER   297
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NTDB id 1214 NCTC11637 00359 SQJ03206.1       IDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1211 C694 RS00795 WP 000963128.1      IDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK   299
NTDB id 1334 RAOC RS04870 WP 004918236.1      IDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDTK   310
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NTDB id 1205 PSJM300 05545 AFN77183.1         LDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGSK   296
consensus                                     ***!*             *  ** *******!!!*!*!!***  ****!*!*** **** **   *** ! !****!   *
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logo
NTDB id 1313 DR RS12030 WP 010888966.1        IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPA......APEAAEA.....................  363
NTDB id 392071 GBA65 RS10905 WP 166396582.1   LGQGRENAKQFLKENDSVRNRILADIHEKLGFAEPADGPEDDGAEDG.....APNGRAAALGSERLG.............  356
NTDB id 600 KW2 RS01765 WP 011675413.1        IGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED........  387
NTDB id 269 KZH43 RS08665 WP 001085462.1      IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 228 SPD RS09265 WP 001085462.1        IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 194 SPR RS08825 WP 001085462.1        IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 159 SP RS09750 WP 001085462.1         IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE  388
NTDB id 499 SM12261 RS08315 WP 078228268.1    IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 527 SMSK321 RS11065 WP 001085454.1    IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIEE  384
NTDB id 408 SMU RS09530 WP 002262392.1        IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED..  383
NTDB id 453 Spy49 1753c ACI62003.1            IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED..  378
NTDB id 115 BSU 16940 NP 389576.2             LGQGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E........................  348
NTDB id 625 LCA RS02525 WP 011374196.1        IGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE...............  355
NTDB id 1245 Cj1673c YP 002345041.1           LGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE...............................  343
NTDB id 1214 NCTC11637 00359 SQJ03206.1       LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E............................  347
NTDB id 1211 C694 RS00795 WP 000963128.1      LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E............................  347
NTDB id 1334 RAOC RS04870 WP 004918236.1      LGQGRDTVKELIKDNPELAEELEAKIREKLQAK..............................................  343
NTDB id 1389 A4U84 RS07560 WP 021112712.1     IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVE......EFSEEEL..............  372
NTDB id 1130 NGFG RS03960 WP 003688695.1      IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......G......ERPEE................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1      IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......G......ERPEE................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1     IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETD.......G......ERPEE................  348
NTDB id 1427 RS RS02760 WP 011000510.1        IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAV.TLAEEVEED...............................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1   IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFG......AVPEEF...............  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1     IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDV.EFG......AVPEEF...............  354
NTDB id 1074 ABD1 RS10195 WP 000344167.1      IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.D........LLLES................  349
NTDB id 1022 ACIAD RS06390 WP 004925639.1     IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.D........LLES................  349
NTDB id 1205 PSJM300 05545 AFN77183.1         IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.D........I...................  347
consensus                                     *!!!***** ** ***** ****  **   **              *
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X non conserved

X similar

X ≥ 50% conserved