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logo
NTDB id 1245 Cj1673c YP 002345041.1          ................MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIIEIYGPESS   69
NTDB id 1427 RS RS02760 WP 011000510.1       ......MEDGKKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVVEIYGPESS   78
NTDB id 1130 NGFG RS03960 WP 003688695.1     ................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVEIFGPESS   70
NTDB id 1124 NGFG RS03960 WP 003688695.1     ................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVEIFGPESS   70
NTDB id 1123 OK783 RS03845 WP 003688695.1    ................MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVEIFGPESS   70
NTDB id 124484 DR75 RS16865 WP 407854620.1  ................................................................................    0
NTDB id 600 KW2 RS01765 WP 011675413.1       MATKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVEIYGPESS   84
NTDB id 269 KZH43 RS08665 WP 001085462.1     .MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 228 SPD RS09265 WP 001085462.1       .MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 194 SPR RS08825 WP 001085462.1       .MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 159 SP RS09750 WP 001085462.1        .MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 527 SMSK321 RS11065 WP 001085454.1   .MAKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 499 SM12261 RS08315 WP 078228268.1   .MAKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIEIYGPESS   83
NTDB id 453 Spy49 1753c ACI62003.1           .MAKKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIIEIYGPESS   83
NTDB id 408 SMU RS09530 WP 002262392.1       .MAKRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVEIYGPESS   83
NTDB id 625 LCA RS02525 WP 011374196.1       ...............MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVEIYGPESS   70
NTDB id 115 BSU 16940 NP 389576.2            ................MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRIIEVYGPESS   68
consensus                                                     **  ***   ***  ***  ************   *  **  ***************  ******************
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logo
NTDB id 1245 Cj1673c YP 002345041.1          GKTTLTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNTDDLYVSQPDFGEQALEIVETIARSGAVDLIVVDSVAALTPKAEI   154
NTDB id 1427 RS RS02760 WP 011000510.1       GKTTLTLQVVAEMQKLGGTCAFIDAEHALDVTYADKLGVKVPDLLISQPDTGEQALEIADALVRSGSVDLIVIDSVAALVPKAEI   163
NTDB id 1130 NGFG RS03960 WP 003688695.1     GKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVVDSVAALVPKAEI   155
NTDB id 1124 NGFG RS03960 WP 003688695.1     GKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVVDSVAALVPKAEI   155
NTDB id 1123 OK783 RS03845 WP 003688695.1    GKTTLCLEAVAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELYLSQPDTGEQALEICDTLVRSGGIDMVVVDSVAALVPKAEI   155
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NTDB id 600 KW2 RS01765 WP 011675413.1       GKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVVIDSVAALVPKAEI   169
NTDB id 269 KZH43 RS08665 WP 001085462.1     GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 228 SPD RS09265 WP 001085462.1       GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 194 SPR RS08825 WP 001085462.1       GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 159 SP RS09750 WP 001085462.1        GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 527 SMSK321 RS11065 WP 001085454.1   GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 499 SM12261 RS08315 WP 078228268.1   GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 453 Spy49 1753c ACI62003.1           GKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 408 SMU RS09530 WP 002262392.1       GKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVVDSVAALVPRAEI   168
NTDB id 625 LCA RS02525 WP 011374196.1       GKTTVALHAVAEVQKQGGTAAYIDAENAMDPKYATALGVNIDDLLLSQPDTGEQGLEIADALVSSGAVDILVVDSVAALVPRAEI   155
NTDB id 115 BSU 16940 NP 389576.2            GKTTVALHAIAEVQQQGGQAAFIDAEHALDPVYAQKLGVNIEELLLSQPDTGEQALEIAEALVRSGAVDIVVVDSVAALVPKAEI   153
consensus                                    ************ ** ************** ** ***********************   ** ********************
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logo
NTDB id 1245 Cj1673c YP 002345041.1        EGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTTGGNALKFYASVRLDVRKVATLKQNE....  235
NTDB id 1427 RS RS02760 WP 011000510.1     EGEMGDALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVRLDIRRIGSIKKGD....  243
NTDB id 1130 NGFG RS03960 WP 003688695.1   EGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVRLDIRRTGSIKKGE....  235
NTDB id 1124 NGFG RS03960 WP 003688695.1   EGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVRLDIRRTGSIKKGE....  235
NTDB id 1123 OK783 RS03845 WP 003688695.1  EGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVRLDIRRTGSIKKGE....  235
NTDB id 124484 DR75 RS16865 WP 407854620.1 ..........................................................................................    0
NTDB id 600 KW2 RS01765 WP 011675413.1     DGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.FGSPETTPGGRALKFYASVRLDVRGSTKIEEGSGDNK  253
NTDB id 269 KZH43 RS08665 WP 001085462.1   DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGNTQIKGTGDQKE  252
NTDB id 228 SPD RS09265 WP 001085462.1     DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGNTQIKGTGDQKE  252
NTDB id 194 SPR RS08825 WP 001085462.1     DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGNTQIKGTGDQKE  252
NTDB id 159 SP RS09750 WP 001085462.1      DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGNTQIKGTGDQKE  252
NTDB id 527 SMSK321 RS11065 WP 001085454.1 DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGSTQIKGTGDQKD  252
NTDB id 499 SM12261 RS08315 WP 078228268.1 DGDIGDSHVGLQARMMSQAMRKLGASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGSTQIKGTGDQKD  252
NTDB id 453 Spy49 1753c ACI62003.1         DGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVRLDVRGTTQIKGTGDQKD  252
NTDB id 408 SMU RS09530 WP 002262392.1     DGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSSVRLDVRGNTQIKGTGEQKD  252
NTDB id 625 LCA RS02525 WP 011374196.1     EGEMGDAHVGLQARLMSQALRKLSGTINKTKTIALFINQIREKVGVM.FGNPEVTPGGRALKFYSTVRLEVRRAETIKNGT....  235
NTDB id 115 BSU 16940 NP 389576.2          EGDMGDSHVGLQARLMSQALRKLSGAINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSVRLEVRRAEQLKQGN....  233
consensus                                  ********************** ********************** ************************     **
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logo
NTDB id 1245 Cj1673c YP 002345041.1        EPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDKKLGQGRENSKAFLKENPEIADEIT  320
NTDB id 1427 RS RS02760 WP 011000510.1     EVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGERIGQGRDNCREFLRENAELAREIE  328
NTDB id 1130 NGFG RS03960 WP 003688695.1   EVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAKIGQGKDNVRVWLKENPEISDEID  320
NTDB id 1124 NGFG RS03960 WP 003688695.1   EVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAKIGQGKDNVRVWLKENPEISDEID  320
NTDB id 1123 OK783 RS03845 WP 003688695.1  EVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAKIGQGKDNVRVWLKENPEISDEID  320
NTDB id 124484 DR75 RS16865 WP 407854620.1 ....................MAEVDIMYGQGISQEGELLDMAVEKDLISKSGAWYGYKEERIGQGRENAKQYMADHPEMMAEVS   64
NTDB id 600 KW2 RS01765 WP 011675413.1     TQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYNDEKIGQGAEKAKNYLKEHQDVFDEID  338
NTDB id 269 KZH43 RS08665 WP 001085462.1   TNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLAEHPEIFDEID  337
NTDB id 228 SPD RS09265 WP 001085462.1     TNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLAEHPEIFDEID  337
NTDB id 194 SPR RS08825 WP 001085462.1     TNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLAEHPEIFDEID  337
NTDB id 159 SP RS09750 WP 001085462.1      TNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLAEHPEIFDEID  337
NTDB id 527 SMSK321 RS11065 WP 001085454.1 TNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLADNPEVFAEID  337
NTDB id 499 SM12261 RS08315 WP 078228268.1 TNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEKIGQGSENAKKYLADNPEIFDEID  337
NTDB id 453 Spy49 1753c ACI62003.1         SSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGEKIGQGSENAKRYLADHPQLFDEID  337
NTDB id 408 SMU RS09530 WP 002262392.1     SNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNGEKIGQGSENAKKFLADNPEIFDDID  337
NTDB id 625 LCA RS02525 WP 011374196.1     DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGSERIGQGRENAKNYLADHEDVEDEVR  320
NTDB id 115 BSU 16940 NP 389576.2          DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEEERLGQGRENAKQFLKENKDIMLMIQ  318
consensus                                   ** ***************** ! *****!*!*!**!!** ** ***** ! !*!**! ****!!! **** **** *** ****
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logo

NTDB id 1245 Cj1673c YP 002345041.1          KAIQNSMGIEGMISGSEDDEGEE.................................   343
NTDB id 1427 RS RS02760 WP 011000510.1       NKVREHLGVTPMGAVTLAEEVEED................................   352
NTDB id 1130 NGFG RS03960 WP 003688695.1     AKIRALNGVEMHITEGTQDETDGERPEE............................   348
NTDB id 1124 NGFG RS03960 WP 003688695.1     AKIRALNGVEMHITEGTQDETDGERPEE............................   348
NTDB id 1123 OK783 RS03845 WP 003688695.1    AKIRALNGVEMHITEGTQDETDGERPEE............................   348
NTDB id 124484 DR75 RS16865 WP 407854620.1   KLVRDAYGIGDGSTITEEAEGQEE.................LPLDE..........    93
NTDB id 600 KW2 RS01765 WP 011675413.1       HKVRAAHGLLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED........   387
NTDB id 269 KZH43 RS08665 WP 001085462.1     KQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE   388
NTDB id 228 SPD RS09265 WP 001085462.1       KQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE   388
NTDB id 194 SPR RS08825 WP 001085462.1       KQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE   388
NTDB id 159 SP RS09750 WP 001085462.1        KQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE   388
NTDB id 527 SMSK321 RS11065 WP 001085454.1   HQVRVQFGLIDGEEAAE....SKKDE....VAQVDS..VNEEVTLDLGDELEIEIEE   384
NTDB id 499 SM12261 RS08315 WP 078228268.1   HQVRVQFGLIDGEEIAE....SKKDE....AAQVDS..VNEEVTLDLGDELEIEIEE   384
NTDB id 453 Spy49 1753c ACI62003.1           RKVRVKFGLLEESEEESAMAVASE.......E.......TDDLALDLDNGIEIED..   378
NTDB id 408 SMU RS09530 WP 002262392.1       HKVRVQYGLIEEDNTEEKQSSKEK.......ETDEK..ADKNLVLELDDTIELED..   383
NTDB id 625 LCA RS02525 WP 011374196.1       LKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE...............   355
NTDB id 115 BSU 16940 NP 389576.2            EQIREHYGLDNNGVVQQQAEETQEEL.EFE.E........................   348
consensus                                      **  *!* *     * *                       * **
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X non conserved

X similar

X $\geq$ 50% conserved