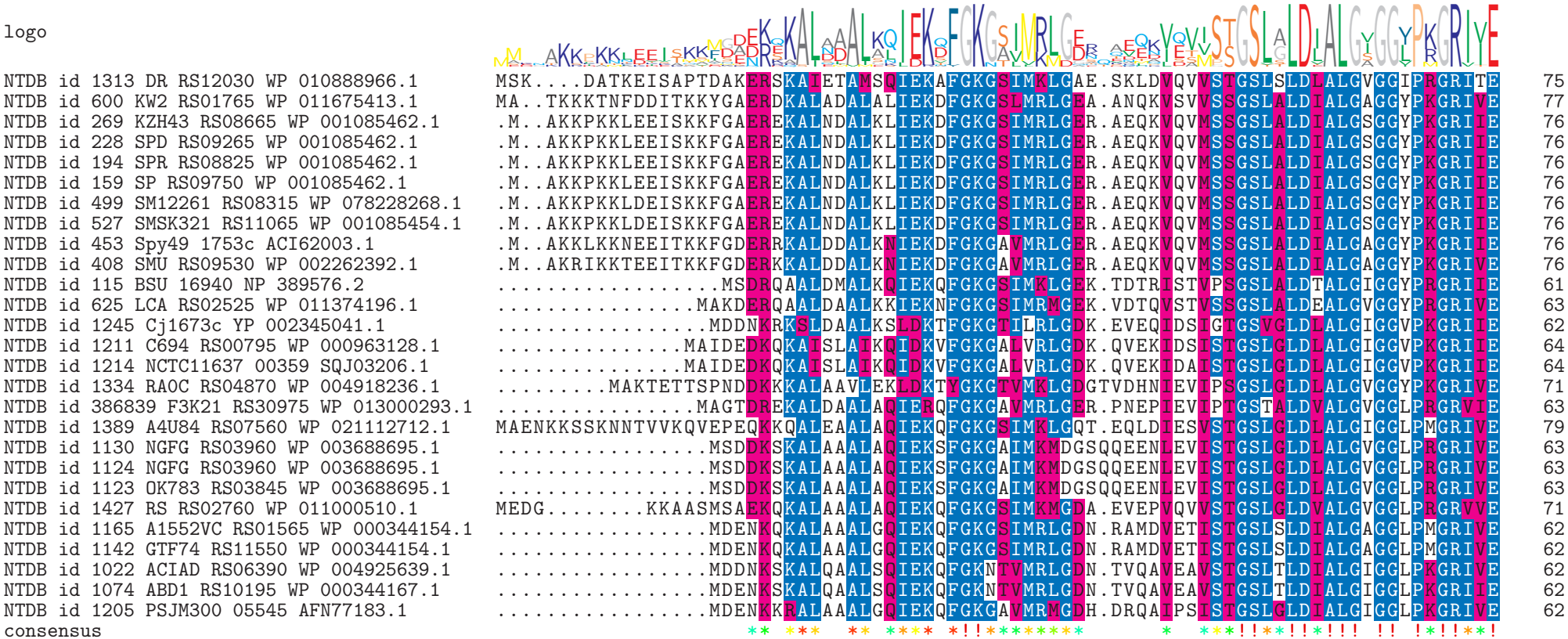
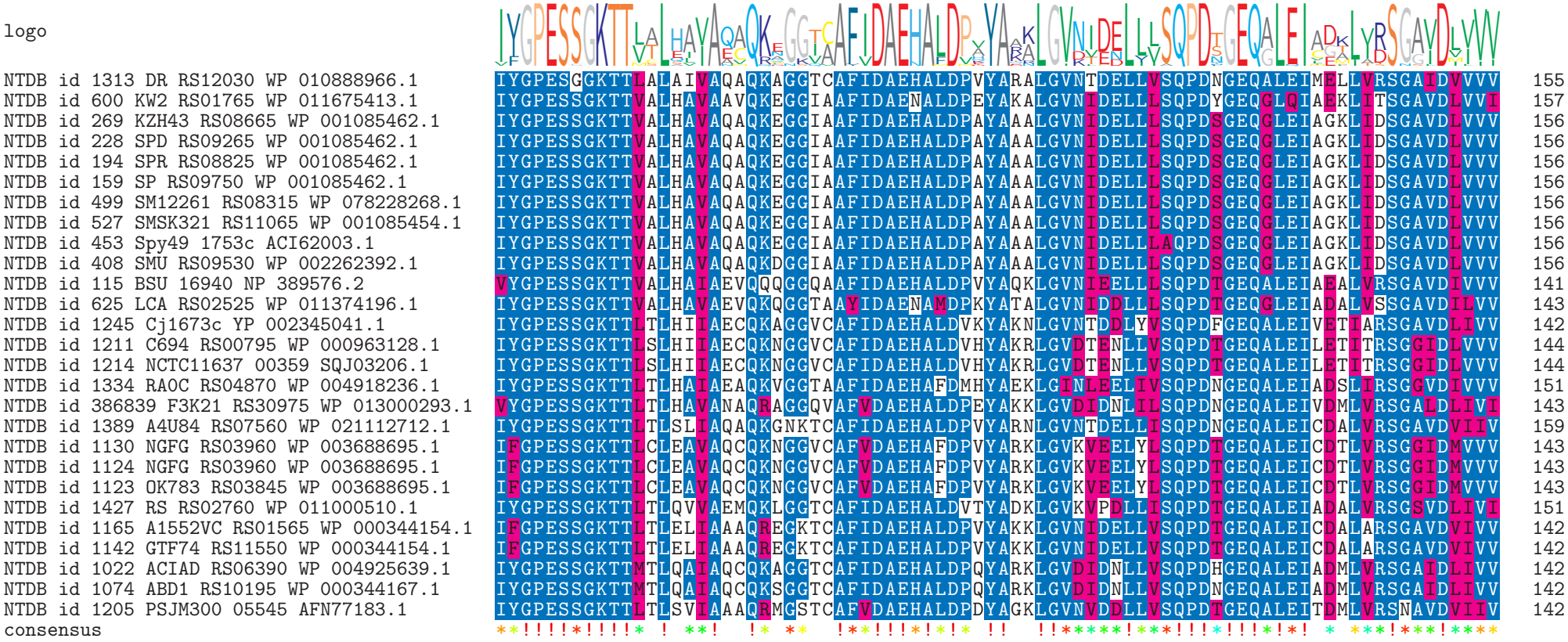
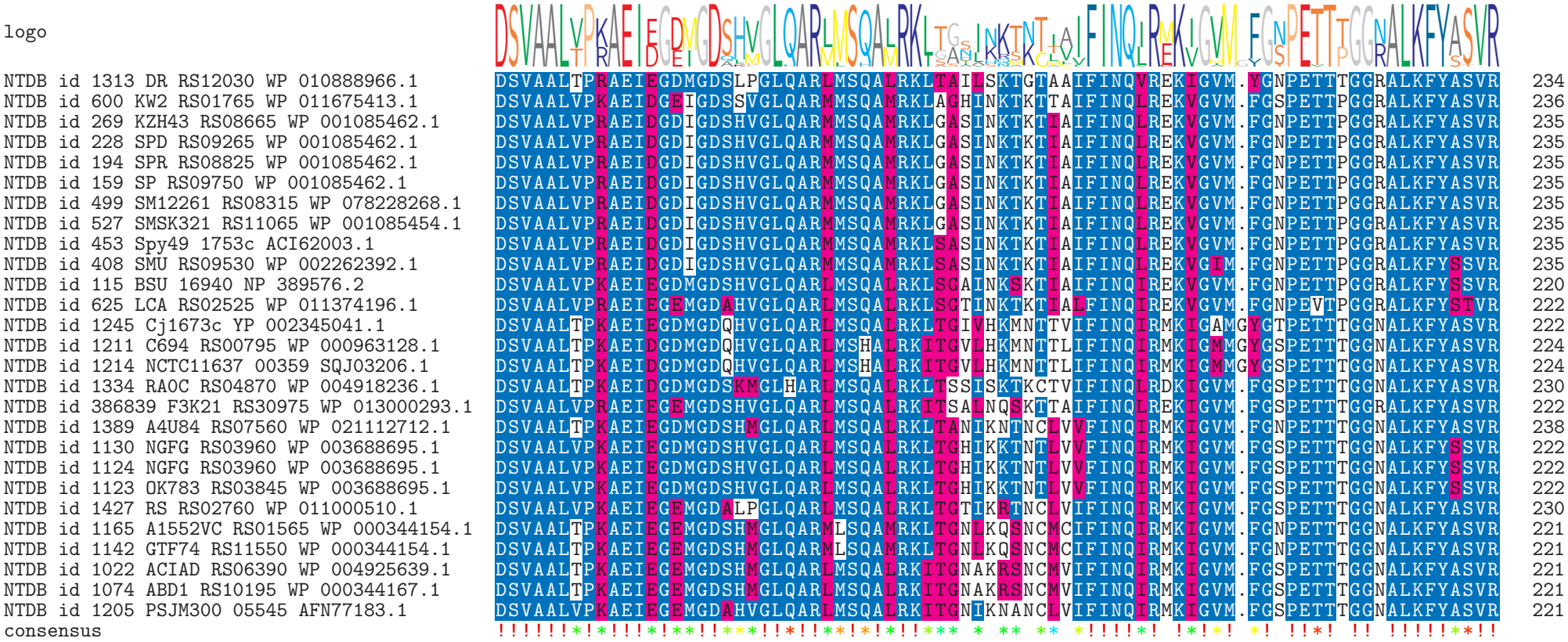
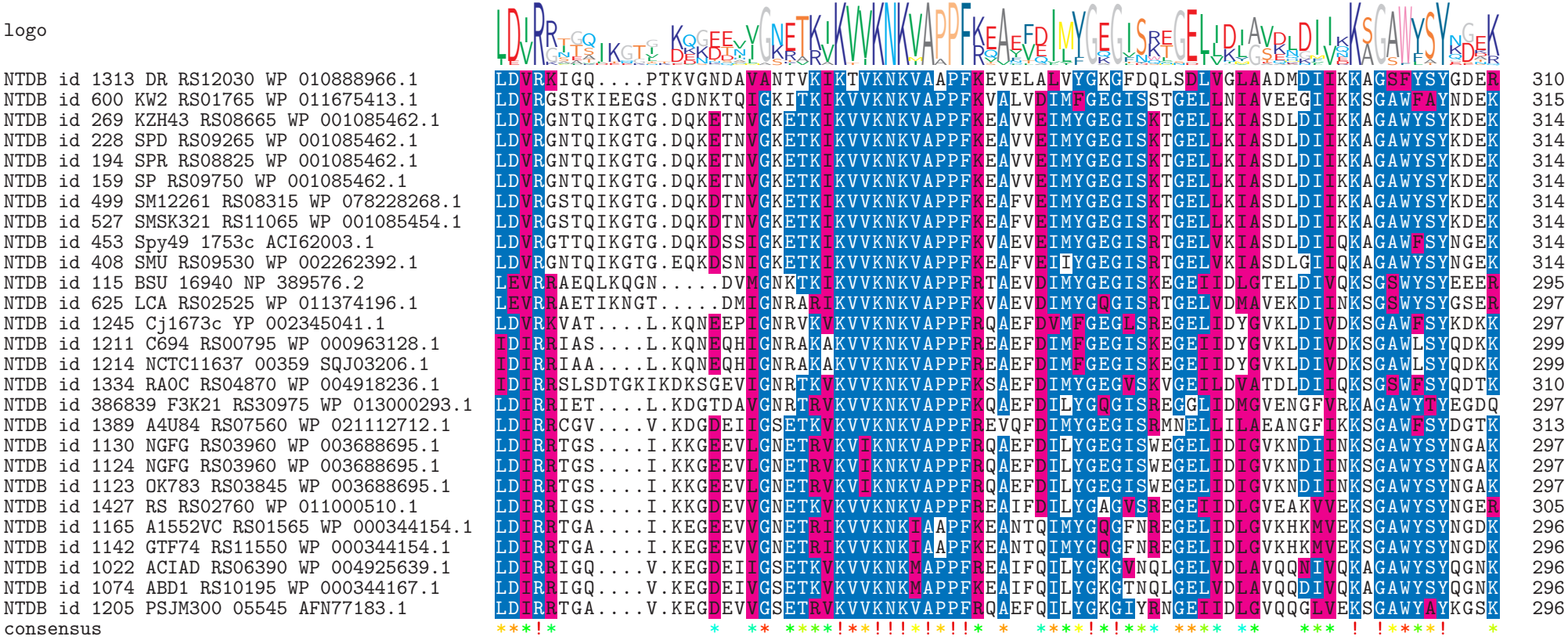

logo
NTDB id 1313 DR RS12030 WP 010888966.1 MSK....DATKEISAPTDAKERSKAIETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE 75
NTDB id 600 KW2 RS01765 WP 011675413.1 MA..TKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE 77
NTDB id 269 KZH43 RS08665 WP 001085462.1 .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 228 SPD RS09265 WP 001085462.1 .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 194 SPR RS08825 WP 001085462.1 .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 159 SP RS09750 WP 001085462.1 .M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 499 SM12261 RS08315 WP 078228268.1 .M..AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 527 SMSK321 RS11065 WP 001085454.1 .M..AKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIIE 76
NTDB id 453 Spy49 1753c ACI62003.1 .M..AKKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIIE 76
NTDB id 408 SMU RS09530 WP 002262392.1 .M..AKRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE 76
NTDB id 115 BSU 16940 NP 389576.2 .....MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRITE 61
NTDB id 625 LCA RS02525 WP 011374196.1 .....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVE 63
NTDB id 1245 Cj1673c YP 002345041.1 .....MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIIE 62
NTDB id 1211 C694 RS00795 WP 000963128.1 .....MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIIE 64
NTDB id 1214 NCTC11637 00359 SQJ03206.1 .....MAIDEDKQKAISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIIE 64
NTDB id 1334 RA0C RS04870 WP 004918236.1 .....MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE 71
NTDB id 386839 F3K21 RS30975 WP 013000293.1 .....MAGTDRERKALDAALAQIERQFGKGAVMRLGER.PNEPIEVIPTGSTALDVALGVGGLPRGRVIE 63
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 1022 ACIAD RS06390 WP 004925639.1 .....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE 62
NTDB id 1074 ABD1 RS10195 WP 000344167.1 .....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIIE 62
NTDB id 1205 PSJM300 05545 AFN77183.1 .....MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGRIVE 62
consensus

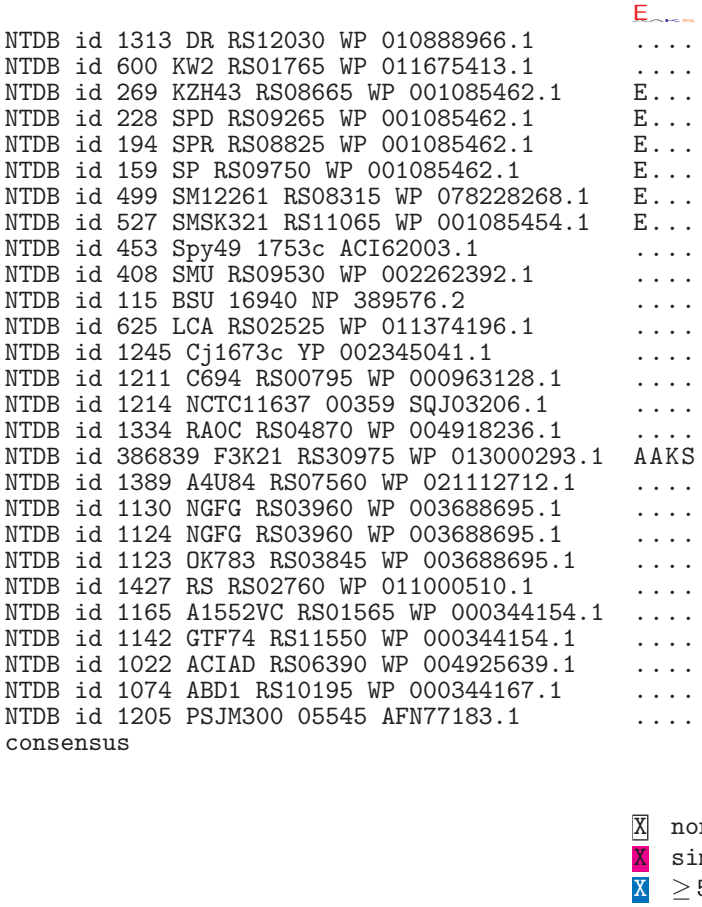

logo
NTDB id 1313 DR RS12030 WP 010888966.1 IYGPESGGKTTLALAIVAQAQKAGGTCAFIDAEHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGAIDVVVV 155
NTDB id 600 KW2 RS01765 WP 011675413.1 IYGPESSGKTTVALHAVAAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLLSQPDYGEQGLQIAEKLITSGAVDLVVI 157
NTDB id 269 KZH43 RS08665 WP 001085462.1 IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV 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 453 Spy49 1753c ACI62003.1 IYGPESSGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLLAQPDSGEQGLEIAGKLIDSGAVDLVVV 156
NTDB id 408 SMU RS09530 WP 002262392.1 IYGPESSGKTTVALHAVAQAQKDGGIAAFIDAEHALDPAYAAALGVNIDELLLSQPDSGEQGLEIAGKLIDSGAVDLVVV 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 1211 C694 RS00795 WP 000963128.1 IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV 144
NTDB id 1214 NCTC11637 00359 SQJ03206.1 IYGPESSGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLVSQPDTGEQALEILETITRSGGIDLVVV 144
NTDB id 1334 RA0C RS04870 WP 004918236.1 IYGPESSGKTTLTLHAIAEAQKVGGTAAFIDAEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIVVV 151
NTDB id 386839 F3K21 RS30975 WP 013000293.1 VYGPESSGKTTLTLHAVANAQRAGGQVAFVDAEHALDPEYAKKLGVDIDNLILSQPDNGEQALEIVDMLVRSGALDLIVI 143
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 1022 ACIAD RS06390 WP 004925639.1 IYGPESSGKTTMTLQAIAQCQKAGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGAIDLIVV 142
NTDB id 1074 ABD1 RS10195 WP 000344167.1 IYGPESSGKTTMTLQAIAQCQKSGGTCAFIDAEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRSGAIDLIVV 142
NTDB id 1205 PSJM300 05545 AFN77183.1 IYGPESSGKTTLTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDDLLVSQPDTGEQALEITDMLVRSNAVDVIIV 142
consensus


logo
NTDB id 1313 DR RS12030 WP 010888966.1 DSVAALTPRAEIEGDMGDSLPGLQARLMSQALRKLTAILSKTGTAAIFINQVREKIGVM.YGNPETTTGGRALKFYASVR 234
NTDB id 600 KW2 RS01765 WP 011675413.1 DSVAALVPKAEIDGEIGDSSVGLQARMMSQAMRKLAGHINKTKTTAIFINQLREKVGVM.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 453 Spy49 1753c ACI62003.1 DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGVM.FGNPETTPGGRALKFYASVR 235
NTDB id 408 SMU RS09530 WP 002262392.1 DSVAALVPRAEIDGDIGDSHVGLQARMMSQAMRKLSASINKTKTIAIFINQLREKVGIM.FGNPETTPGGRALKFYSSVR 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
NTDB id 1211 C694 RS00795 WP 000963128.1 DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR 224
NTDB id 1214 NCTC11637 00359 SQJ03206.1 DSVAALTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTTGGNALKFYASVR 224
NTDB id 1334 RA0C RS04870 WP 004918236.1 DSVAALTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQLRDKIGVM.FGSPETTTGGNALKFYASVR 230
NTDB id 386839 F3K21 RS30975 WP 013000293.1 DSVAALVPRAEIEGEMGDSHVGLQARLMSQALRKITSALNQSKTTAIFINQLREKIGVM.FGSPETTTGGRALKFYASVR 222
NTDB id 1389 A4U84 RS07560 WP 021112712.1 DSVAALTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVVFINQIRMKIGVM.FGNPETTTGGNALKFYASVR 238
NTDB id 1130 NGFG RS03960 WP 003688695.1 DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVVFINQIRMKIGVM.FGSPETTTGGNALKFYSSVR 222
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 1022 ACIAD RS06390 WP 004925639.1 DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR 221
NTDB id 1074 ABD1 RS10195 WP 000344167.1 DSVAALTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR 221
NTDB id 1205 PSJM300 05545 AFN77183.1 DSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTTGGNALKFYASVR 221
consensus


logo
NTDB id 1313 DR RS12030 WP 010888966.1 LDVRKIGQ....PTKVGNDAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDIIKKAGSFYSYGDER 310
NTDB id 600 KW2 RS01765 WP 011675413.1 LDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGIIKKSGAWFAYNDEK 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
NTDB id 159 SP RS09750 WP 001085462.1 LDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK 314
NTDB id 499 SM12261 RS08315 WP 078228268.1 LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK 314
NTDB id 527 SMSK321 RS11065 WP 001085454.1 LDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIIKKAGAWYSYKDEK 314
NTDB id 453 Spy49 1753c ACI62003.1 LDVRGTTQIKGTG.DQKDSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYNGEK 314
NTDB id 408 SMU RS09530 WP 002262392.1 LDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIYGEGISRTGELVKIASDLGIIQKAGAWYSYNGEK 314
NTDB id 115 BSU 16940 NP 389576.2 LEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYEEER 295
NTDB id 625 LCA RS02525 WP 011374196.1 LEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGQGISRTGELVDMAVEKDIINKSGSWYSYGSER 297
NTDB id 1245 Cj1673c YP 002345041.1 LDVRKVAT....L.KQNEEPIGNRVKVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDKK 297
NTDB id 1211 C694 RS00795 WP 000963128.1 IDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK 299
NTDB id 1214 NCTC11637 00359 SQJ03206.1 IDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDKK 299
NTDB id 1334 RA0C RS04870 WP 004918236.1 IDIRRSLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIIQKSGSWFSYQDTK 310
NTDB id 386839 F3K21 RS30975 WP 013000293.1 LDIRRIET....L.KDGTDAVGNRTRVKVVKNKVAPPFKQAEFDILYGQGISREGGLIDMGVENGFVRKAGAWYTYEGDQ 297
NTDB id 1389 A4U84 RS07560 WP 021112712.1 LDIRRCGV....V.KDGDEIIGSETKVKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGTK 313
NTDB id 1130 NGFG RS03960 WP 003688695.1 LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK 297
NTDB id 1124 NGFG RS03960 WP 003688695.1 LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK 297
NTDB id 1123 OK783 RS03845 WP 003688695.1 LDIRRTGS....I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNGAK 297
NTDB id 1427 RS RS02760 WP 011000510.1 LDIRRIGS....I.KKGDEVVGNETKVKVVKNKVAPPFREAIFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYNGER 305
NTDB id 1165 A1552VC RS01565 WP 000344154.1 LDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK 296
NTDB id 1142 GTF74 RS11550 WP 000344154.1 LDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGQGFNREGELIDLGVKHKMVEKSGAWYSYNGDK 296
NTDB id 1022 ACIAD RS06390 WP 004925639.1 LDIRRIGQ....V.KEGDEIIGSETKVKVVKNKMAPPFREAIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGNK 296
NTDB id 1074 ABD1 RS10195 WP 000344167.1 LDIRRIGQ....V.KEGDEIVGSETKVKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGNK 296
NTDB id 1205 PSJM300 05545 AFN77183.1 LDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWYAYKGSK 296
consensus




```
NTDB id 1313 DR RS12030 WP 010888966.1      IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.......PEAAEA.....................  363
NTDB id 600 KW2 RS01765 WP 011675413.1      IGQGAEKAKNYLKEHQDVFDEIDHKVRAAHGLLDDSEVAETEEETTASK.TKAKAKKEEKAVETEEIELELED.......  387
NTDB id 269 KZH43 RS08665 WP 001085462.1    IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 228 SPD RS09265 WP 001085462.1      IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 194 SPR RS08825 WP 001085462.1      IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 159 SP RS09750 WP 001085462.1       IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIEIE  387
NTDB id 499 SM12261 RS08315 WP 078228268.1  IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE.....AAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 527 SMSK321 RS11065 WP 001085454.1  IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE.....VAQVDS..VNEEVTLDLGDELEIEIE  383
NTDB id 453 Spy49 1753c ACI62003.1          IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE........E.......TDDLALDLDNGIEIED.  378
NTDB id 408 SMU RS09530 WP 002262392.1      IGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK........ETDEK..ADKNLVLELDDTIELED.  383
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         LGQGRENSKAFLKENPEIADEITKAIQNSMGIEGMISGSED..DEGEE.....................................  343
NTDB id 1211 C694 RS00795 WP 000963128.1    LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPD..EPLEEME.....................................  347
NTDB id 1214 NCTC11637 00359 SQJ03206.1     LGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPD..EPLEEME.....................................  347
NTDB id 1334 RA0C RS04870 WP 004918236.1    LGQGRDTVKELIKDNPELAEELEAKIREKLQAK.....................................................  343
NTDB id 386839 F3K21 RS30975 WP 013000293.1 LGQGKENARNFLKDNPDLANEIEKKIKEKLGVGVRPEEPTG..QPGADAAVSATPADDTAKAA....PASAAKTAKTKAA  371
NTDB id 1389 A4U84 RS07560 WP 021112712.1   IGQGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDVEEFSEEEL.....................  372
NTDB id 1130 NGFG RS03960 WP 003688695.1    IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER......PEE.....................  348
NTDB id 1124 NGFG RS03960 WP 003688695.1    IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER......PEE.....................  348
NTDB id 1123 OK783 RS03845 WP 003688695.1   IGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETDGER......PEE.....................  348
NTDB id 1427 RS RS02760 WP 011000510.1      IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....................................  352
NTDB id 1165 A1552VC RS01565 WP 000344154.1 IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDVEFGAVPEEF.....................  354
NTDB id 1142 GTF74 RS11550 WP 000344154.1   IGQGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADDVEFGAVPEEF.....................  354
NTDB id 1022 ACIAD RS06390 WP 004925639.1   IGQGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEPDLL..ES.......................  349
NTDB id 1074 ABD1 RS10195 WP 000344167.1    IGQGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEPDLL..LES.......................  349
NTDB id 1205 PSJM300 05545 AFN77183.1       IGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADADI.....................................  347
consensus                                   *!!!***** ** ***** **** **  **          *
```


logo
E
NTDB id 1313 DR RS12030 WP 010888966.1 363
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 499 SM12261 RS08315 WP 078228268.1 E... 384
NTDB id 527 SMSK321 RS11065 WP 001085454.1 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 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 386839 F3K21 RS30975 WP 013000293.1 AAKS 375
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
X non conserved
X similar
X ≥ 50% conserved