

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...KPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 63279 T15 RS00405 WP 023369045.1	MAKK...PTKKLEDITKKFGEERDKKALDDALKSIEKDFGKGAVMRLGER.AEQKVQVMSSGSLSDIALGAGGYPKGRI	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTEEITKKFGEERDKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGEERDKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRI	61
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGAE.TDTRISTVPSGSLALDIALGIGGYPRGRI	59
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDIALGVGGIPRGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSIDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRI	60
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPARGRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPARGRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPARGRI	61
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPARGRI	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKBALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRI	60
consensus	*** ** * **! *!***** * ***!****!! !! !!!!!	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 63279 T15 RS00405 WP 023369045.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



EKIGQGS ENAKKYLKEHQDVFEIDHKVRAAHGL LDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED 387
 EKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK EEAVNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK EEAVNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQDTENKKDEPKK EEAVNEEVPLDLGDELEIEI 386
 EKIGQGS ENAKKYLAENPEIFDEIDHQVVRVQFGL IDGEEIAES KKDEAAQ VDSVNEEVTLDLGDELEIEI 382
 EKIGQGS ENAKKYLAENPEVFAEIDHQVVRVQFGL IDGEEAAES KKDEVAQ VDSVNEEVTLDLGDELEIEI 382
 EKIGQGS ENAKKFLADNPAIFDEIDRKIRVHYGL IEADGVEEVATEEA . . PVA E . . EIQDVILDLGGIELED 382
 EKIGQGS ENAKKFLADNPEIFDDIDHKVVRVQYGL IEEDNTEEKQSKEKE . TDE K . . ADKNLVLELDDTIELED 383
 EKIGQGS ENAKRYLADHPQLFDEIDRKVVRVQFGL LEESEESAMAVASEE TDDLALDLNGIEIED 378
 ERIGQGS ENAKNYLADHEDVEDEVRLKVRAAVYGISDVPEEDLPTTEDE . QINILPDDST EE 355
 ERLGQGS ENAKQFLKENKDIMLMIQEIQREHYGL DNNGVVQQAEETQEELFE . E 348
 ERIGQGS KEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAE . A 363
 KKLGGGREN SKAFLKENPEIADEITKAIQNSMG IEGMI SGSEDDE . GE . E 343
 KKLGGGREN AKALLKEDKALADEITLKI KESIGSNEEI MPLPDEP . LE . EME 347
 KKLGGGREN AKALLKEDKALADEITLKI KESIGSNEEI MPLPDEP . LE . EME 347
 TKLGGGRD TVKELTKDNPELAEELEAK IREKLQAK 343
 TKIGQGS KNNAVKWLKENPEIADKLEQEIRNTLASNPNS VLKATASDSND . ESDVVEEFSEEL 372
 AKIGQGS KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGTQDET GERPEE 348
 AKIGQGS KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGTQDET GERPEE 348
 AKIGQGS KDNVRVWLKENPEISDEIDAKIRALNGVEMHI TEGTQDET GERPEE 348
 ERIGQGS RDNCR EFLRENAELAREIENKVRHLGVTPMG AV . TLAEEVEE . D 352
 DKIGQGS KANACKY LKENPEIAKTLDKKLREMLLN PENM QLIAETSSAAD . DVEFGAVPEEF 354
 DKIGQGS KANACKY LKENPEIAKTLDKKLREMLLN PENM QLIAETSSAAD . DVEFGAVPEEF 354
 NKIGQGS KNNVIRYFEENNQIAEEIERN IREQLLTTGTN GAVQ . I . EDEE . EPD . LLES 349
 NKIGQGS KNNVIRYLEENPQISTEIEAV IREQLLTKASD QTAA . HDETEE . EPD . LLES 349
 SKIGQGS KANAACKY LEENPEIGQEIEQQ IRAKLLVTSAN TKATPVAEDLA . DAD . I 347

!!!*** ** ***** ***** ** **

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 63279 T15 RS00405 WP 023369045.1	..	382
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 625 LCA RS02525 WP 011374196.1	..	355
NTDB id 115 BSU 16940 NP 389576.2	..	348
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 RAOC 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 1074 ABD1 RS10195 WP 000344167.1	..	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	..	349
NTDB id 1205 PSJM300 05545 AFN77183.1	..	347

consensus

 non conserved
 similar
 ≥ 50% conserved