

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.A.NQKVS SVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSI EKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAK..TETTSPPDDKKKALAAVLEK LDKTYGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQ QEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDG..KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 210372 BTV19 RS02820 WP 075293444.1	.....MATPFEKAKALEAALGQIEKQFGKGAIMKLGDT.QKLDIEAISTGSLSLDV ALGIGGLPMGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNT.VVKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRRALAAALGQIEKQFGKGA VMRMGDH.DRQAIPSI STGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
 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 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 210372 BTV19 RS02820 WP 075293444.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1

consensus



DEKIGQGA EKAKNYLKEHQDVFD EIDHKVRAAHG LDDSEVAETEETTASKTKAKAKKE . . EKAVETEEIELELED . . . 387
 DEKIGQGS ENAKKYLA EHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE . . . PKKE . . EA . . VNEEVPLDLGDELE 383
 DEKIGQGS ENAKKYLA EHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE . . . PKKE . . EA . . VNEEVPLDLGDELE 383
 DEKIGQGS ENAKKYLA EHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE . . . PKKE . . EA . . VNEEVPLDLGDELE 383
 DEKIGQGS ENAKKYLA EHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE . . . PKKE . . EA . . VNEEVPLDLGDELE 383
 DEKIGQGS ENAKKYLA DNPEVFAE IDHQV RVVQFGLIDGEEAAE . . . SKKDE . . . VAQV . . DS . . VNEEVTLDLGDELE 379
 DEKIGQGS ENAKKYLA DNPEIFDE IDHQV RVVQFGLIDGEEIAE . . . SKKDE . . . AAQV . . DS . . VNEEVTLDLGDELE 379
 GEKIGQGS ENAKRYLADHPQLFDE IDRKV RVVKFGLLEESEEEESAMAVASE E TDDLALDLNGIE 375
 GEKIGQGS ENAKFLADNPEIFDD IDHKV RVVQYGLIEEDNTEEKQSSKEK ETD . . . EK . . ADKNLVLELDDTIE 380
 EERLGGGREN AKQFLKENKDIMLMIQE QIREHYGLDNNGVVQQQAETQEEL . EFE . E 348
 SERIGGGREN AKNYLADHEDVEDEVRLK VRAAYGISDVPEEDLPTTEDE . QI . NILPDDS . . T EE 355
 DERIGGGKEK TIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA 363
 DKKLGQGRENSK AFLKENPEIADEITKAIQNSMGI EGMI SGSEDDGE 343
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEI MPLPDEPLEEME 347
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEI MPLPDEPLEEME 347
 DTKLGQGRD TVKELIKDNPELAEELEAKI REKLQAK 343
 GAKIGQGGKDNVRVW LKENPEISDEIDAKI RALNGVEMHI T EGTQDET DGERPEE 348
 GAKIGQGGKDNVRVW LKENPEISDEIDAKI RALNGVEMHI T EGTQDET DGERPEE 348
 GAKIGQGGKDNVRVW LKENPEISDEIDAKI RALNGVEMHI T EGTQDET DGERPEE 348
 GERIGQGRDNCREFLREN AELAREIENK VREHLGVTPMG AVTLAE . EVEED 352
 GEKIGQGGKANAMK WLAENPDQA AVLQKLRSELLANPEK ALLADI . EAESQDISGTESDF 355
 GTKIGQGGKNNAVK W LKENPEIADKLEQEIRNTL ASNPNS VLKATA . SDSNDES . . . DVEEFSEEL 372
 GDKIGQGGKANACKY LKENPEIAKTLDKKLREMLLN PENM QLIAETSSAADDVEFGAVPEEF 354
 GDKIGQGGKANACKY LKENPEIAKTLDKKLREMLLN PENM QLIAETSSAADDVEFGAVPEEF 354
 GSKIGQGGKANA AKYLEENPEIGQEIEQQIRAKLL VTSAN TKATPVAEDLADADI 347
 GNKIGQGGKNNVIRY LEENPQISTEIEAV IREQLLTKASD QTAA . HDETEEEPDLL . . ES 349
 GNKIGQGGKNNVIRY FEENNQIAE EIERN IREQLLTTGTN GAVQ . I . EDEEEPDLL . . LES 349

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

logo

	IEIEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	LED..	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 RAOC 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 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 210372 BTV19 RS02820 WP 075293444.1	.....	355
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 1205 PSJM300 05545 AFN77183.1	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349

consensus

- non conserved
- similar
- ≥ 50% conserved