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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGER.A	ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGE	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLGK	TDTRISTVPSGSLALDI	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	VDTQVSTVSSGSLALDEAL	GVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSIKAF	FGKGSIMKLGAE	SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQID	KVFGKGA	LVRGDK	QVEKIDAI	ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQID	KVFGKGA	LVRGDK	QVEKIDAI	ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKK	ALAAVLEKLDKTYGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQKKQ	ALEAALAIKQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQ	KALAAALAIKQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLDVALGVGGLPRGR	68
NTDB id 971183 WKC57 RS07585 WP 004237869.1	.....MAIDENKQKALAAALGQIEKQ	FGKGSIMRLGED	.RSM	VETISTGSLALDVALGAGGLPLGR	61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAALGQIEKQ	FGKGVMRMGDH	.DRQAIP	ISTGSLGLDI	ALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59
consensus	*** ** *	***! *!*****	*	***!****!!	!! *!*	

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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 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 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 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 971183 WKC57 RS07585 WP 004237869.1
 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 EKAKNYLKEHQDV FDEIDHKVRAAHG LLDSEVAETEEETTA .SKTKAKAKKEEKAVETE EIELELED . . . 387
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKK .DE . . . PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKK .DE . . . PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKK .DE . . . PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKK .DE . . . PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAADNPEIFDEIDHQVVRVQFGLIDGEEIAES . . . KK .DE . . . AAQVDS . . VNEEVTLDLGDELEI 380
 DEKIGQGS ENAKKYLAADNPEVFAEIDHQVVRVQFGLIDGEEAAES . . . KK .DE . . . VAQVDS . . VNEEVTLDLGDELEI 380
 GEKIGQGS ENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE E TDDLALDLNGIEI 376
 GEKIGQGS ENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK ETDEK . . ADKNLVLELDDTIEL 381
 EERLGGGREN AKQFLKENKDIMLMIQE QIREHYGLDNNGVVQQAEETQE .EL .EFE .E 348
 SERIGGGREN AKNYLADHEDVEDEVRLKVR AAYGISDVPEEDLPTTEDE . . QI .NILPDDST EE 355
 DERIGGGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA 363
 DKKLGQGRENSK AFLKENPEIADEITKAIQNSMG IEGMISGS . . EDDEGE E 343
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEIMPL . . PDEPLE EM E 347
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEIMPL . . PDEPLE EM E 347
 DTKLGGGRD TVKELIKDNPELAELEAK IREKLQAK 343
 GTKIGGGKNN AVKWLKENPEIADKLEQ EIRNTLASNPN SVLK . . ATASDSNDESDV EEFSEEFEL 372
 GAKIGGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG . . TQD ETD GERPEE 348
 GAKIGGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG . . TQD ETD GERPEE 348
 GAKIGGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEG . . TQD ETD GERPEE 348
 GERIGGGRDNCREFLRENAELAREIENK VREHLGVTPMGAVT . . LAEEVEED 352
 GEKIGGGKANATIY LKEHPMADELDKKLRELLNHSGEFST . . AAESFNEESET E DAGNEEF 356
 GDKIGGGKANACKYLKENPEIAKTL DKKLREMLLN PENMQLI . . AETSSAADDVEF GAVPEEF 354
 GDKIGGGKANACKYLKENPEIAKTL DKKLREMLLN PENMQLI . . AETSSAADDVEF GAVPEEF 354
 GSKIGGGKANAAKYLEENPEIGQEIEQQ IRAKLLVTSANTKA . . TPVAED . . LADA DI 347
 GNKIGGGKNNVIRYLEENPQISTEIEAV IREQLLTKASDQTA . . A.HDET . . EEEP DLLES 349
 GNKIGGGKNNVIRYFEENNQIAEEIERN IREQLLTTGTNGAV . . Q.I.ED . . EEEP DLLLES 349

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		EIEE	
NTDB id 600	KW2 RS01765 WP 011675413.1	387
NTDB id 269	KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228	SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194	SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159	SP RS09750 WP 001085462.1	EIEE	388
NTDB id 499	SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 527	SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 453	Spy49 1753c ACI62003.1	ED..	378
NTDB id 408	SMU RS09530 WP 002262392.1	ED..	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 1214	NCTC11637 00359 SQJ03206.1	....	347
NTDB id 1211	C694 RS00795 WP 000963128.1	....	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 971183	WKC57 RS07585 WP 004237869.1	....	356
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