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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR		73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERRKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR		73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERRKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR		73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG	IEK	.TDTRI	ISTVPSGSLALDI	TALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDEALGVGGYPRGR				60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM	QIEKAFGKGSIMKLGAE	.SKLDVQVSTGSLSLDL	ALGVGGIPRGR		72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR		59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGVMLRGER	.QVEKIDAISTGSLGLDL	ALGIGGVPKGR		61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGVMLRGER	.QVEKIDSISTGSLGLDL	ALGIGGVPKGR		61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEK	LDKTYGKGTVMKLG	GTVDHNI	IEVIPS	SGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQKKQALEAALAI	QIEKQFGKGSIMKLG	QTEQLDIESVSTGSLGLDL	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAI	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAI	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMSAEKQKALAAALAI	QIEKQFGKGSIMKMGDA	.EVEPVQVSTGSLGLD	VALGVGGLPRGR		68	
NTDB id 300075 CHC30 RS05365 WP 000963150.1	.....MAIDENKQKALAAALGQIEKQFGKGSIMRLGED	.RSMDVETISTGSLSLDI	ALGAGGLPMGR			61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR			59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR			59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAALGQIEKQFGKGVMLRMDH	.DRQAIP	ISTGSLGLDI	ALGIGGLPKGR		59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR		59
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	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 300075 CHC30 RS05365 WP 000963150.1
 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 LDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAHNPEIFDE IDHQVVRVQFGL IDGEEIAES KKDE AAQVDS . . VNEEVTLDLGDELEIE 381
 DEKIGQGS ENAKKYLAHNPEVFAE IDHQVVRVQFGL IDGEEAAES KKDE VAQVDS . . VNEEVTLDLGDELEIE 381
 GEKIGQGS ENAKRYLADHPQLFDE IDRKVRVKFGL LEESEEEESAMAVASE E TDDLALDLNGIEIE 377
 GEKIGQGS ENAKFLADNPEIFDD IDHKVVRVQYGL IEEDNTEEEKQSSKEK ETDEK . . ADKNLVLELDDTIELE 382
 EERLGGGREN AKQFLKENKDIMLMIQEQ IREHYGL DNNGVVQQAEETQEEL . EFE . E 348
 SERIGGGREN AKNYLADHEDVEDEVRLKVR AAYGISDVP EEDLPTTEDE . QI . NILPDDST EE 355
 DERIGGGKEK TIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA EA 363
 DKKLGQGRENSK AFLKENPEIADEITKAIQNSMGI EGM ISGSEDDEG EE 343
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEE IMPLPDEPL EE . ME 347
 DKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEE IMPLPDEPL EE . ME 347
 DTKLGQGRD TVKELIKDNPELAEELEAK IREKLQAK 343
 GTKIGGGKNN AVKWLKENPEIADKLEQEIRNTL A SNP SVLKATASDSN . . DESDVEEFSEEEL 372
 GAKIGGGKDNV RVWLKENPEISDEIDAKIRALNG VEMH ITEG T . . QDET DGERPEE 348
 GAKIGGGKDNV RVWLKENPEISDEIDAKIRALNG VEMH ITEG T . . QDET DGERPEE 348
 GAKIGGGKDNV RVWLKENPEISDEIDAKIRALNG VEMH ITEG T . . QDET DGERPEE 348
 GERIGGGRDN CREFLRENAELAREIENK VREHLGVTPM GAVTLAE . EVE . . ED 352
 GEKIGGGKAN ATTWLKENPATAKEIEKRVRELLSNQN ATPDFAVD DSEGVAETNEDF 353
 GDKIGGGKAN ACKYLKENPEIAKTL DKKLREMLLN PEN MQLIAETSSAA . . DDVEFGAVPEEF 354
 GDKIGGGKAN ACKYLKENPEIAKTL DKKLREMLLN PEN MQLIAETSSAA . . DDVEFGAVPEEF 354
 GSKIGGGKANA AKYLEENPEIGQEIEQQ IRAKLLV TSA NTKATPVAEDL . . ADADI 347
 GNKIGGGKNN VIRYLEENPQISTEIEAV IREQLLTKAS DQTAA . HDETE . . EEPDLLLES 349
 GNKIGGGKNN VIRYFEENNQIAEIEIRN IREQLLTTGT NGAVQ . I . EDE . . EEPDLLLES 349

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	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 300075 CHC30 RS05365 WP 000963150.1	...	353
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