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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	I	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKF	ERDKALNDALKLI	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKF	DERKKALDDALKN	IEKDFGKGV	AVMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKF	DERRKALDDALKN	IEKDFGKGV	AVMRLGER	.AEQKVQ	VMSGSLALDI	I	ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDM	ALKQIEKQ	FGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	I	ALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDA	AALKKIEKN	FGKGSIMRM	GEEK.VDTQ	VSTVSSGSLALDE	A	ALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAP	TDAKERSKAT	ETAM	QIEKAFGKGS	IMKLGAE.SKLDV	QVVSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDA	AALKSLDKT	FGKGTILRL	GDK.EVEQ	IDSIGTGSVGLDL	ALGIGGV	PKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQK	AISLAIKQID	KVFGKGA	LVRLGDK.QVEK	IDAISTGSLGLDL	ALGIGGV	PKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQK	AISLAIKQID	KVFGKGA	LVRLGDK.QVEK	IDSISTGSLGLDL	ALGIGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSP	DDKKKALAAV	LEKLDKT	YGKGTVMK	LGDGTVDH	NIIEVIPS	GSGLGLDLALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSK	ALAAALQIEK	SFGKGA	IMKMDGS	QREENLEVISTG	SLGLDLALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSK	ALAAALQIEK	SFGKGA	IMKMDGS	QREENLEVISTG	SLGLDLALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSK	ALAAALQIEK	SFGKGA	IMKMDGS	QREENLEVISTG	SLGLDLALGVGGLPRGR	60	
NTDB id 125969 AMD19 RS09325 WP 011051113.1	.....MDENKKR	ALSAALSQIEK	QFGKGS	VMRMGDR.VIEA	EVVPTGSLMLDI	ALGIGGLPKGR	59	
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAAS	MSAEKQK	ALAAALQIEK	QFGKGS	IMKMGDA.EVEP	VQVSTGSLGLDV	ALGVGGLPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQ	VEPEKQK	QALEAALQIEK	QFGKGS	IMKLGQT.EQLD	IESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQK	ALAAALQIEK	QFGKGS	IMRLGDN.RAMD	VETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQK	ALAAALQIEK	QFGKGS	IMRLGDN.RAMD	VETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSK	ALQAALSQIEK	QFGKNT	VMRLGDN.TVQ	AVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSK	ALQAALSQIEK	QFGKNT	VMRLGDN.TVQ	AVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKR	ALAAALQIEK	QFGKGV	MRMGDH.DRQA	IPSISTGSLGLDI	ALGIGGLPKGR	59		
consensus		*** **	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!	

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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 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
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NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 115 BSU 16940 NP 389576.2	348
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NTDB id 1313 DR RS12030 WP 010888966.1	363
NTDB id 1245 Cj1673c YP 002345041.1	343
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NTDB id 1211 C694 RS00795 WP 000963128.1	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	343
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NTDB id 1427 RS RS02760 WP 011000510.1	352
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 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

 non conserved
 similar
 ≥ 50% conserved