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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDI	I	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFG	DERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFG	DERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	I	ALGIGGYPRGR	58		
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	ALGVGGYPRGR	60				
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAM	QIEKAFGKGSIMKLGAE	.SKLDVQVSTGSLSLDL	I	ALGVGGIPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	I	ALGIGGVPKGR	59			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK	.QVEKID	ISTGSLGLDL	I	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK	.QVEKID	ISTGSLGLDL	I	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTS	PNDDKKKALAAVLEK	LDKTYGKGTVMKLG	GTVDHNI	IEVIPS	SGSLGLDL	I	ALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAAL	QIEKSF	FGKGAIMKMDGSQ	QEENLE	VISTGSLGLDL	I	ALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAAL	QIEKSF	FGKGAIMKMDGSQ	QEENLE	VISTGSLGLDL	I	ALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAAL	QIEKSF	FGKGAIMKMDGSQ	QEENLE	VISTGSLGLDL	I	ALGVGGLPRGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMS	AIEKQKALAAAL	QIEKQFGKGSIMKMGDA	.EVEPVQV	VSTGSLGLDV	I	ALGVGGLPRGR	68	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVE	AVSTGSLTLDI	I	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKS	KALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVE	AVSTGSLTLDI	I	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKK	RALAAALG	QIEKQFGKGAIVMRMGD	.DRQA	TPSISTGSLGLDI	I	ALGIGGLPKGR	59	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENK	KSSKNNTV..VKQVEPE	QKKQALEAAL	QIEKQFGKGSIMKLG	QT.EQLD	IESVSTGSLGLDL	I	ALGIGGLPMGR	76
NTDB id 70441 I927 RS05030 WP 005724816.1	.....MATKE	EKNKALAAALG	QIEKQFGKGSIMKLG	DT.QALD	VEAVSTGSLSLDV	I	ALGIGGLPMGR	61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENK	QKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	I	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENK	QKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	I	ALGAGGLPMGR	59	
consensus		*** **	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!	









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NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
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consensus

 non conserved  
 similar  
 ≥ 50% conserved