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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGER.A	ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG	EK.TDTRISTVPSGSLALDI	TALGIGGYPKGR	58			
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRM	GK.VDTQVSTVSSGSLALDE	ALGVGGYPKGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQ	IEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGIPKGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGAIVRLGDK	.QVEKIDAI	ISTGSLGLDL	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGAIVRLGDK	.QVEKIDAI	ISTGSLGLDL	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPNDKKKALAAVLEK	LDKTYGKGTVMKLG	GTVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTVV..KQVEPEQKKQ	ALEAALAIKQIEKQFGKGSIMKLG	QT.EQLDIESV	STGSLGLDL	ALGIGGLPKGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEV	ISTGSLGLDL	ALGVGGLPKGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEV	ISTGSLGLDL	ALGVGGLPKGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIKQIEKS	FGKGAIMKMDGSQ	QEEENLEV	ISTGSLGLDL	ALGVGGLPKGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK..AASMSAEKQK	ALAAALAIKQIEKQFGKGSIMKMG	DA.EVEPVQV	VSTGSLGLD	VALGVGGLPKGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	ALGAGGLPKGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	ALGAGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDI	ALGIGGLPKGR	59	
NTDB id 64241 X969 RS04225 WP 013971339.1	.....MDDNKRRALAAALGQIERQ	FGKGAVMRMGDH	.ERQAI	PAISTGSLGLDI	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAI	PSISTGSLGLDI	ALGIGGLPKGR	59	
consensus	*** ** *	*****	!!!!*****	*	****!!*!!*!!*!!*!!	!!*!!	









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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 64241 X969 RS04225 WP 013971339.1	...	355
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consensus

 non conserved  
 similar  
 ≥ 50% conserved