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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	I	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGD	ERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSS	GSLALDI	I	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQ	IEKQFGKGSIMKLG	EK.TDTRISTV	PSGSLALDI	I	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKK	IEKNFGKGSIMRM	GK.VDTQVSTV	SSGSLALDE	I	ALGVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAP	TDERSKATETAMS	QIEKAFGKGSIMK	LGAE.SKLDVQ	VVSTGSLSLD	I	ALGVGGIPRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSDAALKS	LDKTFGKGTILRL	GDK.EVEQIDS	IGTGSVGLD	I	ALGIGGVPKGR	59	
NTDB id 81669 JMG82 RS08655 WP 201352353.1	.....MNIDPN	KQKALDVAIKQ	IDKAFGKGALVRL	GDR.EIEPIEA	ISTGSLGLDM	I	ALGIGGVPRGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATISLAI	KQIDKVF	FGKALVRLGDK.QVEKIDA	ISTGSLGLD	I	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATISLAI	KQIDKVF	FGKALVRLGDK.QVEKIDS	ISTGSLGLD	I	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPND	DKKKAALAVLEK	LDKTYGKGTVMK	LGDGTVDHNI	EVIPSGSLGLD	I	ALGVGGYPKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPE	QKKQALEAALA	QIEKQFGKGSIMK	LQGT.EQLDIES	VSTGSLGLD	I	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALA	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVI	I	STGSLGLD	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALA	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVI	I	STGSLGLD	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALA	QIEKSF	FGKGAIMKMDGSQ	QEEENLEVI	I	STGSLGLD	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALA	QIEKQFGKGSIMK	MGDA.EVEPVQ	VVSTGSLGLD	I	ALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALG	QIEKQFGKGSIM	R	LGDN.RAMDVET	I	STGSLSLDI	ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALG	QIEKQFGKGSIM	R	LGDN.RAMDVET	I	STGSLSLDI	ALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALG	QIEKQFGKGAV	MRMGDH.DRQAIP	SISTGSLGLD	I	ALGIGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KS	KALQAALS	QIEKQFGKNT	V	MRLGDN.TVQAVE	AVSTGSLTLDI	ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KS	KALQAALS	QIEKQFGKNT	V	MRLGDN.TVQAVE	AVSTGSLTLDI	ALGIGGLPKGR	59
consensus		** **	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!		









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NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved  
 similar  
 ≥ 50% conserved