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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEAA	.NQKVS	VSSGSLALDI	ALGAGGYPKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGERA	.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGERA	.EQKVQVMSSGSLALDI	ALGAGGYPKGR		73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGERA	.EQKVQVMSSGSLALDI	ALGAGGYPKGR		73		
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQ	FGKGSIMKLGEKT	.DTRISTVPSGSLALDI	TALGIGGYPRGR		58		
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEKV	.DTQVSTVSSGSLALDE	ALGVGGYPRGR		60		
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	ERSKATETAMSI	IEKAFGKGSIMKLGAE	.KLDVQVVSTGSLSLDL	ALGVGGIPRGR		72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSDAALKS	LDKTFGKGTILRLG	DE.VEQIDS	IGTGSVGLDL	ALGIGGVPKGR	59		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATISLAIKQ	IDKVF	FGKGA	LVR	LDKQ.VEKIDS	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATISLAIKQ	IDKVF	FGKGA	LVR	LDKQ.VEKIDA	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPND	DKKALAAVLEKLD	KTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDL	ALGVGGYPKGR	68		
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAI	IEKSF	FGKGA	IMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAI	IEKSF	FGKGA	IMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAI	IEKSF	FGKGA	IMKMDGSQ	QEENLEVISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 349928 EYA82 RS19945 WP 004189458.1	.ME.....ESK..KGSGLTA	EKSKALAAALAI	IEKQFGKGSIMRLGD	GEAVEDIQVVSTGSLGLDI	ALGVGGLPRGR		69		
NTDB id 1427 RS RS02760 WP 011000510.1	.ME.....DGK..KAASMSA	EKQKALAAALAI	IEKQFGKGSIMKMGDAE	.VEPVQVVSTGSLGLDV	ALGVGGLPRGR		68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQ	KKQALEAALAI	IEKQFGKGSIMKLGQTE	.QLDIESVSTGSLGLDL	ALGIGGLPMGR	76		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALG	IEKQFGKGSIMRLG	DNR.AMDVET	ISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALG	IEKQFGKGSIMRLG	DNR.AMDVET	ISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALS	IEKQFGKNTVMRLG	DNT.VQAVEAVSTGSLT	LDI	ALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALS	IEKQFGKNTVMRLG	DNT.VQAVEAVSTGSLT	LDI	ALGIGGLPKGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALG	IEKQFGKGAVMRMGD	HDRQAIPS	ISTGSLGLDI	ALGIGGLPKGR	59		
consensus		** **	**	***!	*!!*****	* **	***!!*!!*!!*!!*!!*!!*!!*!!		









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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
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consensus

 non conserved  
 similar  
 ≥ 50% conserved