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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGERAEQ.KVSVVSSGSLALDIALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKKFGAEREKALNDALKLI	FKGGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKKFGDERRKALDDALKN	IEKDFGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKKFGDERRKALDDALKN	IEKDFGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG	EKTDT.RISTVPSGSLALDIALGIGGYPKGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRM	GKVDV.QVSTVSSGSLALDEALGVGGYPKGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIE	KAFGKGSIMKLGAEKSL.DVQVSTGSLSLDLALGVGGIPKGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLG	DEVE.QTDSIGTGSVGLDLALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKCALVRLGDKQVE.KIDAISTGSLGLDLALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKCALVRLGDKQVE.KIDAISTGSLGLDLALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTET..TSPNDKKKALAAVLEKLDKT	YGGKTVMKLGDGTVDHNIIEVIPS	GSGLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTVVK..QVEPEQKKQALEAALA	QIEKQFGKGSIMKLGQTEQL.DIESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGA	AIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGA	AIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGA	AIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGKKA..ASMSAEKQKALAAALA	QIEKQFGKGSIMKMGDAEVE.PVQVSTGSLGLDVALGVGGLPKGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGS	IMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGS	IMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRRALAAALGQIEKQFGKGA	VMRMGDHRQ.AIPSI	STGSLGLDIALGIGGLPKGR	59
NTDB id 145311 AAX10 RS02035 WP 036361692.1	.....MSTKAKDAT..TSVDENKKEKALKAALA	QIEKSFGKNTIMHLGDESAKIDVDVSTGSLGLDIALGIGGLPKGR	71	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALSQIEKQFGKNTVMRLGDN	TVQ.AVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNT	VMRLGDN	TVQ.AVEAVSTGSLTLDIALGIGGLPKGR	59
consensus	*** ** *	***! *!*****	* **!*!!*!!*!!*!!*!!*!!*!!*!!	









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NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	....	348
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	....	347
NTDB id 145311 AAX10 RS02035 WP 036361692.1	....	362
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....	349

consensus

 non conserved  
 similar  
 ≥ 50% conserved