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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER. ANQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGEER EKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 293240 DK182 RS10135 WP 002960557.1	.MAKK.....TKKTDEITKKFGEER KALDDALKTIEKD FGKGAIMKLG ER. ADQKVQVMSSGSLALDI ALGVGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGEER RKALDDALKNIEKD FGKGAVMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGEER KKALDDALKNIEKD FGKGAVMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK. VDTQVSTVSSGSLALDEALGVGGYP RGR	60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDTALGIGGYP RGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD AKERSKATETAM SQIEKAFGKGSIMKLGAE. SKLDVQVVSTGSLSLDLALGVGGIP RGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK. EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA IKQIDKVF GKGALVRLGDK. QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA IKQIDKVF GKGALVRLGDK. QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTS PNDDKKKALAAVLEKLDKT YGKGTVMKLG DGTVDHNI EVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNTV. VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT. EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLP RGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLP RGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLP RGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K. KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA. EVEPVQVVSTGSLGLDV ALGVGGLP RGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALGQIEKQFGKGAVMRMGDH. DRQAIPSI STGSLGLDI ALGIGGLPKGR	59
consensus	*** ** * **! *!***** * **!!!*!!*!!*!!*!!*!!*!!	









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NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
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consensus

 non conserved  
 similar  
 ≥ 50% conserved