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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK....KLKKNEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK....RIKKTEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 1045026 ACEPSO RS03825 WP 395321104.1	.....MA DERQAALDKALKKIEKDFGKGSIMRLGDN.TNMQVETVPSGSLALDVALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAK DERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAIISLAIKQIDKVFGKCALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAIISLAIKQIDKVFGKCALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIETVPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKSRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * **! *!***** * ***!***!!*!!*!!*!!*!!	









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	<b>Y</b>	<b>L</b>	<b>D</b>	<b>L</b>	<b>G</b>	<b>D</b>	<b>E</b>	<b>L</b>	<b>E</b>	<b>I</b>	<b>E</b>	<b>I</b>	<b>E</b>	<b>E</b>		
NTDB id 600 KW2 RS01765 WP 011675413.1	I	E	E	L	E	D	.	.	.	.	.	.	.	.	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	P	L	D	L	G	D	E	L	E	I	E	I	E	388	
NTDB id 228 SPD RS09265 WP 001085462.1	V	P	L	D	L	G	D	E	L	E	I	E	I	E	388	
NTDB id 194 SPR RS08825 WP 001085462.1	V	P	L	D	L	G	D	E	L	E	I	E	I	E	388	
NTDB id 159 SP RS09750 WP 001085462.1	V	P	L	D	L	G	D	E	L	E	I	E	I	E	388	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V	T	L	D	L	G	D	E	L	E	I	E	I	E	384	
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	T	L	D	L	G	D	E	L	E	I	E	I	E	384	
NTDB id 453 Spy49 1753c ACI62003.1	L	A	L	D	L	D	N	G	I	E	I	E	D	.	378	
NTDB id 408 SMU RS09530 WP 002262392.1	L	V	L	E	L	D	D	T	I	E	L	E	D	.	383	
NTDB id 1045026 ACEPSO RS03825 WP 395321104.1	I	P	N	K	P	Q	G	K	.	.	.	.	.	.	377	
NTDB id 625 LCA RS02525 WP 011374196.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	355	
NTDB id 115 BSU 16940 NP 389576.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	348	
NTDB id 1313 DR RS12030 WP 010888966.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	363	
NTDB id 1245 Cj1673c YP 002345041.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	347	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	343	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	L	.	.	.	.	.	.	.	.	.	.	.	.	.	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	348	
NTDB id 1427 RS RS02760 WP 011000510.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	347	
consensus																

**X** non conserved  
**X** similar  
**X** ≥ 50% conserved