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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERD	KALADALAL	IEKD	FGKGSIMRLGE	A	ANQKVS	VSS	GSLALD	I	ALGAGGY	PKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGER	AEQK	VQVMSS	GSLALD	I	ALGSGGY	PKGR		73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERR	KALDDALKN	IEKD	FGKGA	V	MRLGER	AEQK	VQVMSS	GSLALD	I	ALGAGGY	PKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERK	KALDDALKN	IEKD	FGKGA	V	MRLGER	AEQK	VQVMSS	GSLALD	I	ALGAGGY	PKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALK	QIEKQ	FGKGSIMKLGEK	K	TDTR	IST	VP	SGSLALD	TALGI	GGY	PRGR		58	
NTDB id 625 LCA RS02525 WP 011374196.1	MAK	DERQAALDA	ALKKIEKN	FGKGSIMRMGEK	V	DTQVST	VSS	GSLALDEAL	GVGGY	PRGR			60	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKAT	ETAM	SQIEKA	FGKGSIMKLGAE	SKLD	VQV	VST	TGSLSLDL	ALGVGGI	PRGR		72	
NTDB id 1245 Cj1673c YP 002345041.1	MD	DNKRKSLDA	ALKSLDKT	FGKGTILRLGDK	EVEQ	IDS	IGTGSVGLDL	ALGI	GGV	PKGR			59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKATISLA	IKQIDKV	FGKGALVRLGDK	QVEK	IDA	IST	TGSLGLDL	ALGI	GGV	PKGR		61	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAID	EDKQKATISLA	IKQIDKV	FGKGALVRLGDK	QVEK	IDS	IST	TGSLGLDL	ALGI	GGV	PKGR		61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPN	DDKKKALAAVLEK	LDKT	YGKGTVMKLG	DGTVDHNI	EV	IP	SGSLGLDL	ALGVGGY	PKGR			68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEP	EQQKKQALEAALA	QIEKQFGKGSIMKLGQT	EQLD	IES	VST	TGSLGLDL	ALGI	GGL	PMGR			76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREEN	LEV	IST	TGSLGLDL	ALGVGGL	PRGR				60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREEN	LEV	IST	TGSLGLDL	ALGVGGL	PRGR				60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALA	QIEKSFGKGAIMKMDGS	QREEN	LEV	IST	TGSLGLDL	ALGVGGL	PRGR				60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMS	AEKQKALAAALA	QIEKQFGKGSIMKMGDA	EVEP	VQV	VST	TGSLGLD	VALGVGGL	PRGR				68	
NTDB id 151731 AD867 RS15510 WP 000963143.1	MAID	ENKQKALAAALG	QIEKQFGKGSIMRLGED	RSMD	VET	IST	TGSLSLDI	ALGAGGL	PMGR				61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALG	QIEKQFGKGSIMRLGDN	RAMD	VET	IST	TGSLSLDI	ALGAGGL	PMGR				59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MD	ENKQKALAAALG	QIEKQFGKGSIMRLGDN	RAMD	VET	IST	TGSLSLDI	ALGAGGL	PMGR				59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALG	QIEKQFGKGA	V	MRLGDN	DRQA	IPS	IST	TGSLGLDI	ALGI	GGL	PKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALS	QIEKQFGKNTVMRLGDN	TVQA	VEA	VST	TGSLTLDI	ALGI	GGL	PKGR			59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALS	QIEKQFGKNTVMRLGDN	TVQA	VEA	VST	TGSLTLDI	ALGI	GGL	PKGR			59	
consensus	***	***	**	***!	*!!*****	*		***!!*!!*!!*!!	!!	!!*!!				

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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 1214 NCTC11637 00359 SQJ03206.1
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NTDB id 1124 NGFG RS03960 WP 003688695.1
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NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



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		IEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
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	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	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			

- X non conserved
- X similar
- X ≥ 50% conserved