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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	EAA	ANQKVS	VSSGSLALDIALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 0782228268.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VMSGSLALDIALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQKVQ	VMSGSLALDIALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQKVQ	VMSGSLALDIALGAGGYPKGR	73	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKNFGKGSIMRMGEK	ER	VDTQVST	VSSGSLALDEALGVGGYPRGR	60
NTDB id 219507 LS41612 RS17450 WP 024361961.1	.....MS	DRKAALDAQALKQIEKNFGKGSIMKLG	ER	TDLEIAT	SSGSLALDAALGVGGYPRGR	58
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQFGKGSIMKLG	ER	TDTRIST	VPSGSLALDTALGIGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	ERSKATETAMSQIEKAFGKGSIMKLG	ER	SKLDVQ	VVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSLDAALKSLDKTFGKGTILRLG	ER	EVEQIDS	IGTGSVGLDLALGIGGVPRGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKAIISLAIKQIDKVFGKCALVRLG	ER	QVEKIDA	ISTGSLGLDLALGIGGVPRGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKAIISLAIKQIDKVFGKCALVRLG	ER	QVEKIDS	ISTGSLGLDLALGIGGVPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT	..ETTSPND	DKK	KALAAVLEKLDKTYGKGTVMKLG	GTVDHNI	EVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV..VKQVEPEQKKQALEAAL	ER	QIEKQFGKGSIMKLG	QTEQLDIESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGS	ER	QVEENLE	VISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGS	ER	QVEENLE	VISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGS	ER	QVEENLE	VISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMS	ERKQKALAAALAQIEKQFGKGSIMKMG	ER	EVEPVQ	VVSTGSLGLDVALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLG	ER	DN.RAMD	VETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLG	ER	DN.RAMD	VETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALSQIEKQFGKNTVMRLG	ER	DN.TVQA	VEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALSQIEKQFGKNTVMRLG	ER	DN.TVQA	VEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN	KKRALAAALGQIEKQFGKGAVMRMGDH	ER	DRQAIP	SISTGSLGLDIALGIGGLPKGR	59	
consensus		*** **	***	***!	*!*****	* **	***!***!***!***!***!***!

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 219507 LS41612 RS17450 WP 024361961.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

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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
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 219507 LS41612 RS17450 WP 024361961.1	...	354
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 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
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

 non conserved
 similar
 ≥ 50% conserved