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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEEA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 0782228268.1	.MAKK...PKKLDEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGEEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 1037937 ACB363 RS09320 WP 002992179.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDTALGIGGYPGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAIISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAIISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDDGTVDHNIETVPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..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 AFN77183.1MDENKSRALAAALGQIEKQFGKGAVMRMGDHD.DRQAIPSISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * **!* !*!***** * ***!***!***! !*! !*! !*!	

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NTDB id 600	KW2	RS01765	WP	011675413.1	DEKIGQGA	EKA	KNYL	KEHQ	DV	FDEID	HKV	RAAH	GL	LD	SEVA	ETEE	TTASK	TKAKAK	KEEK	AVET	EEIE	LELED	387																																																															
NTDB id 269	KZH43	RS08665	WP	001085462.1	DEKIGQGS	ENAK	KYLA	EHPEI	FDEID	KQVR	SKFG	GL	ID	GE	EVSE	QDTEN	KKDE	....	PKKEA	..	VNEE	PLDL	GDELEIE	385																																																														
NTDB id 228	SPD	RS09265	WP	001085462.1	DEKIGQGS	ENAK	KYLA	EHPEI	FDEID	KQVR	SKFG	GL	ID	GE	EVSE	QDTEN	KKDE	....	PKKEA	..	VNEE	PLDL	GDELEIE	385																																																														
NTDB id 194	SPR	RS08825	WP	001085462.1	DEKIGQGS	ENAK	KYLA	EHPEI	FDEID	KQVR	SKFG	GL	ID	GE	EVSE	QDTEN	KKDE	....	PKKEA	..	VNEE	PLDL	GDELEIE	385																																																														
NTDB id 159	SP	RS09750	WP	001085462.1	DEKIGQGS	ENAK	KYLA	EHPEI	FDEID	KQVR	SKFG	GL	ID	GE	EVSE	QDTEN	KKDE	....	PKKEA	..	VNEE	PLDL	GDELEIE	385																																																														
NTDB id 499	SM12261	RS08315	WP	078228268.1	DEKIGQGS	ENAK	KYLADN	PEIF	FDEID	HQVR	VQFG	GL	ID	GE	EIAES	KKDE	AAQV	DS	..	VNEE	VTLD	GDELEIE	381																																																														
NTDB id 527	SMSK321	RS11065	WP	001085454.1	DEKIGQGS	ENAK	KYLADN	PEVFA	EIDH	QVR	VQFG	GL	ID	GE	EAES	KKDE	VAQV	DS	..	VNEE	VTLD	GDELEIE	381																																																														
NTDB id 408	SMU	RS09530	WP	002262392.1	GEKIGQGS	ENAK	KFLADN	PEIF	DDI	DKV	RVQY	GL	IE	ED	NT	EEK	QSS	KEK	ET	DEK	..	ADKN	LVLE	DDTIEIE	382																																																													
NTDB id 1037937	ACB363	RS09320	WP	002992179.1	GEKIGQGS	ENAK	RYLADHP	QLF	FDEI	DRK	VRVKF	GL	LE	E	SE	E	SAM	AVASE	E	TDD	LALD	LDNGIEIE	377																																																														
NTDB id 453	Spy49	1753c	ACI62003.1	NTDB id 625	LCA	RS02525	WP	011374196.1	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 1211	C694	RS00795	WP	000963128.1	NTDB id 1214	NCTC11637	00359	SQJ03206.1	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	consensus	**!!!***** ** * *** ***** ** **

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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 1037937 ACB363 RS09320 WP 002992179.1	D..	378
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
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	...	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