

SUPPLEMENTARY TABLE

Group	Target	Oligo Name	Sequence	Reference Genbank Accession	Reference
Controls	<i>nuc</i>	nucSb	511-GCGATTGATGGTGATACGGTT-531	V01281	(2)
		nucAp	558-CATTGGTTGACCTTTGTACATTAA-535	V01281	(2)
		nucSp	745-GATGGAAAATGGTAAACGAAG-766	V01281	(2)
	<i>mecA</i>	nucAb	789-AGCCAAGCCTTGACGAATAAAGC-766	V01281	(2)
		mecAP4b	1190-TCCAGATTACAACCTCACCAGG-1211	Y00688	(3)
		mecAAp	1264-CTAATGTTTTGTTATTTAACCCAATCAT-1237	Y00688	This study
		mecASp	1288-GATGGTAAAGGTTGGCAAAA-1308	Y00688	This study
mecAP7b	1357-CATTACCACCTTCATATCTGTAAACG-1332	Y00688	(3)		
Toxin Genes	<i>sea</i>	seaSb	487-CCTTTGGAAACGGTTAAAACG-507	M18970	(2)
		seaSp	531-GGAGTTGGATCTTCAAGCAAGACG-554	M18970	(2)
		seaAp	613-TCTGAACCTTCCCATCAAAAAC-592	M18970	(2)
	<i>sec</i>	seaAb	691-TTGA ATACTGTCCTTGAGCACC-670	M18970	(2)
		secSb	814-GATAAGTTTGACCAATCTAAATATTTAATG-843	X05815	This study
		secAp	866-ACCGTTTTATTGTCGTTGTACAT-844	X05815	This study
		secSp	889-GAAGTCCACCTTACAACAAAGAAT-912	X05815	This study
	<i>sed</i>	secAb	935-TCAAAATCGGATTAACATTATCC-913	X05815	(2)
		sedSb	332-CTAGTTTGGTAATATCTCCTTTAAACG-358	M28521	(2)
		sedAp	384-TGAATCAATGTTTTCAATGGC-364	M28521	This study
	<i>lukS-PVL</i>	sedSp	385-GTAAAAGAGAAAGAATTGCATAAAAAAT-412	M28521	This study
		sedAb	462-ATCTGCATAAGAATGTTTCATATTATTAG-433	M28521	This study
		pvlSb	2651-TTTAGGCTCAAGACAAAGCAAC-2673	X72700	(2)
		pvlAp	2731-TACCTCTGGATAAACAAGGCAATTTT-2707	X72700	(2)
	Tn554tnpB	N046Sb	pvlSp	2733-CTTCAATCCAGAATTTATTGGTGT-2756	X72700
pvlAb			2783-TTTCAGCGTTTTGTTTCG-2764	X72700	(2)
N046Sb			2031-TGCTTCAATTTCCACTCTCG-2012	X03216	This study
N046Ap			1987-CAAGTTCAGAGAGTACACCAATTA-2011	X03216	This study
N046Sp		N046Sb	1948-GTCTTTGGGCAATATCACTTACATA-1924	X03216	This study
		N046Ab	1904-TGAACGTGGATAGCTTTCC-1923	X03216	This study
φMu50B SAV0881		SAV0881Sb	932269-TGCTTGTGTCATATCGCC-932287	BA000017	(3)
		SAV0881Ap	932316-TGTTTTGGTAACTAGCCACTGTATAGATA-932288	BA000017	(3)
		SAV0881Sp	932418-TCAAATTTCTTTTGAATAGTAAAGTCAGA-932446	BA000017	(3)
φPV83 ORF 2		SAV0881Ab	932468-CCTAGCTGTATGTCTGCGCTA-932447	BA000017	(3)
		PV83ORF2Sb	1269-GGCGCTTCTTCTTACAGGAG-1288	AB044554	(3)
		PV83ORF2Ap	1323-CATTGTAGATATTTATATGGTATGTAACCTAAAA-1289	AB044554	(3)
		PV83ORF2An	1356-GATAATCTGTTTTTTCACTAACTAAACCTAT-1324	AB044554	(3)
		PV83ORF2Sn	1625-TGTTAATAACAACGGTAAACCAGTATTT-1653	AB044554	(3)
		PV83ORF2Sp	1654-ATAGTTATTAAGACTTTGAAAACAGAATCATT-1686	AB044554	(3)
φMu50B SAV0858	PV83ORF2Ab	1715-GAATTATAGGTTTTAAGTTCACCTCTTC-1687	AB044554	(3)	
	SAV0858Sb	6334-ATCTAAATGCCTGTCGAAGC-6314	AP001553	(3)	
	SAV0858Ap	6294-TATTTGCGGCTTTAGCGTAA-6313	AP001553	(3)	
	SAV0858An	6266-GCGTTCATAACATACGAATTATTCAT-6291	AP001553	This study	
	SAV0858Sn	6084-GAAGTCCGCAAAGTTAGCACT-6064	AP001553	This study	
	SAV0858Sp	6063-CATTGAGAAAGTCTTTGTCGATACT-6037	AP001553	(3)	
Phage-derived open reading frames	SAV0858Ab	6017-CCAAGAACAGGACATCGAC-6036	AP001553	(3)	
	φ11 nt 4427-5251	phi11-4563Sb	4563-GATATGCAAGATCAGACAATGCC-4585	AF424781	(3)
		phi11-4610Ap	4610-CCTCGCTATCAACATGATTTCTAAT-4586	AF424781	(3)
		phi11-4632An	4632-CTAAATTTGTCGTCAGTTTGT-4611	AF424781	(3)
		phi11-5026Sn	5026-CAAACCTACTACAGCAAGCTAGACTACAAC-5054	AF424781	(3)
	phi11-5055Sp	5055-GAAAAGTAAATAAACAGTGGGTGCTTTA-5082	AF424781	(3)	
	phi11-5103Ab	5103-CTCTGCCCATGTGTTCTGAG-5083	AF424781	(3)	
φSLT ORF 257	SLTorf257Sb	26802-GTGTATCGCTATGAGTGGTGAC-26824	EF462198	(3)	
	SLTorf257Ap	26855-TTAAAAAATATTTTTGTGCATAAAAAATAGT-26825	EF462198	(3)	
	SLTorf257An	26880-GTCATAACCCATGAATTATGAATCA-26856	EF462198	This study	
	SLTorf257Sn	27065-TTAGGAGCTAATGAAATAGCTGCTAGTA-27092	EF462198	This study	
	SLTorf257Sp	27093-CTCTAAAGAGCAATATAAGCGTTTC-27118	EF462198	(3)	
	SLTorf257Ab	27142-CTTTAAATCTTCTGGGACGTTCTC-27119	EF462198	(3)	
φN315 SA1801	SA1801Ab	5235-CAATCAGCGGTCGAGAAT-5253	EF462197	(3)	
	SA1801Ap	5279-GAGTCTTAACCTCTAATGCTTGATGA-5254	EF462197	(3)	
	SA1801An	5305-CATTCTTCAAACATTTTTGTATG-5280	EF462197	(3)	
	SA1801Sn	5687-CGCAGATTGTTGAGTGGTTA-5707	EF462197	(3)	
	SA1801Sp	5708-CGTCAAACCGGATTCCTATTTAAA-5731	EF462197	(3)	
	SA1801Ab	5751-TTATAATCCACACCTTGCG-5732	EF462197	(3)	
φMu50A SAV1974	SAV1974Sb	2110912-GCCACAAGAAAAGGAGTG-2110894	BA000017	(3)	
	SAV1974Ap	2110869-TGCTTACAGCTACATCTGTTTTGAT-2110893	BA000017	(3)	
	SAV1974An	2110813-CGTTTTACTACTACCACTACGG-2110837	BA000017	This study	
	SAV1974Sp	2110719-GATATGAGTAACCTTTGGTCGGAGTC-2110695	BA000017	(3)	
	SAV1974Ab	2110673-ATACCTTCCATCTATCCAGCAG-2110694	BA000017	(3)	
φSLT ORF 182	SLTorf182Sb	1080396-CATTAAGGTTATATCAAGGTTTTAGAGG-1080424	CP000736	This study	
	SLTorf182Ap	1080460-CTTCAAAGAAATATGACTACTCAATTTG-1080431	CP000736	This study	
	SLTorf182Sp	1080493-CAACCTGTTACCTACTAACCAAAA-1080518	CP000736	(3)	
	SLTorf182Ab	1080540-GTTTGCTACTATGTCGCAACT-1080519	CP000736	(3)	
<i>ccrAB</i>	1Sb	24838-CAATCAAAACCTATATCATCAATCAGTACG-24867	AB033763	(1)	
	ccrA1Ap	24890-TGGAAAGCTTTTCGAATTTGAT-24869	AB033763	(1)	
	1An	24944-TCATCAATATAGGGGTACAACATGTT-24911	AB033763	(1)	
	βc1Sn	25421-CAGGCAAGTTAATGCTCCAG-25440	AB033763	(1)	
	ccrB1Sp	25497-CGGACAACGTCAAAGAGC-25514	AB033763	(1)	
	βcAb	25539-ATTGCCTTGATAATAGCC-25522	AB033763	This study	
	<i>ccrC</i>	FSb	16318-AAACGTCTATTACAAGATGTTAAGGATAAT-16347	AB121219	(1)
		ccrCAp	16375-ATTTCCAACCTAATACCATTTTCGATT-16350	AB121219	(1)
		Ran	16430-TTGAATTCATGAATAATTTAAACACGT-16403	AB121219	(1)
		FaSn	16741-ACGACAAATCTAAATCAAAAAGGA-16764	AB121219	(1)
		ccrCSp	16792-TCAGTGTTTGGCGTGAAT-16810	AB121219	(1)
		RAb	16838-GCCTTTATAGACTGGATTATTTCAAAATA-16812	AB121219	(1)
	<i>mecR1</i>	mI6Sb	42866-CATAACTCCCATTCTGCAGATG-42888	D86934	(1)
		mecR1Ap	42924-GAGTTAATATAATGGATAATAAAACGTATGAAAT-42891	D86934	(1)
		mecR1Sp	42927-TTCTTTTAAAATACGCTCAGAAATTT-42953	D86934	This study
SCCmec elements	mA7Ab	42971-ATGGCGAAAAAGCACAAAC-42954	D86934	(1)	
	E007	1a3Sb	5277-TTTTAGGAGGTAATCTCCTTGATG-5300	AB033763	(1)
		E007Ap	5328-TTTATAACATTGCTCTTTACCTCAG-5301	AB033763	(1)
		E007Sp	5387-AATAAGCATACATGGAGACGTTTT-5410	AB033763	(1)
	CQ002	1a4Ab	5431-TTTGCGTTTGCATCTACC-5411	AB033763	(1)
		4a1Sb	4726-TTGAATGCCCTCCATGAATAAAAT-4750	AB063172	(1)
		CQ002Ap	4777-CGGGTAATATGAGAATAAATAAAGAAG-4751	AB063172	(1)
	<i>cadB</i>	4a1An	4844-GCGTATTATGATACTAAGCAAAGTATTAATAAG-4811	AB063172	(1)
		4a3Sn	5079-TTGAATCCTGGGAATCTATCACT-5102	AB063172	(1)
		CQ002Sp	5133-ACATGCTGTAGTCATTTTATACTGTTG-5160	AB063172	(1)
		4a3Ab	5183-AGCATATAGAAAAGATAGAAGTTGCAAGA-5161	AB063172	(1)
		cad4Sb	16107-ATTGCGATTCTTTCCGATATGG-16128	AB037671	(1)
		cadBAp	16156-CTATTTAATGCTACCAAAATAGTGGCTC-16129	AB037671	(1)
	<i>cadB</i>	cad4An	16213-TTCGTAATGTCACACATATAGTACTT-16186	AB037671	(1)
		mN5Sn	17537-CCCTCCCATATATATAACAAGTTTAGGA-17564	AB037671	(1)
Z023Sp		17594-TGATCCACTAAGTGTACTGAAAAACTTG-17623	AB037671	(1)	
mN5Ab		17646-TTGCTTGGGACTTACTCTAGT-17624	AB037671	(1)	

Supplementary Table. Oligonucleotides used in the study. Oligonucleotides ending in b are biotinylated primers, those ending in p are amine-labelled probes and those ending in n are unlabelled primers. Unlabelled oligonucleotides were used as internal primers for targets where the amplicon would otherwise be greater than 200bp (amplicons larger than this lead to weak probe signals). A: antisense, S: Sense. Numbers flanking the sequence indicate the location of the primer on the Genbank reference sequence.

REFERENCES

1. **Cai, L., F. Kong, Q. Wang, H. Wang, M. Xiao, V. Sintchenko, and G. L. Gilbert.** 2009. A new multiplex PCR-based reverse line-blot hybridization (mPCR/RLB) assay for rapid staphylococcal cassette chromosome mec (SCCmec) typing. *J Med Microbiol* **58**:1045-1057.
2. **Cai, Y., F. Kong, Q. Wang, Z. Tong, V. Sintchenko, X. Zeng, and G. L. Gilbert.** 2007. Comparison of single and multilocus sequence typing and toxin gene profiling for characterisation of methicillin resistant *Staphylococcus aureus* (MRSA). *J Clin Microbiol* **45**:3302-3308.
3. **O'Sullivan, M. V., F. Kong, V. Sintchenko, and G. L. Gilbert.** 2010. Rapid identification of methicillin-resistant *Staphylococcus aureus* transmission in hospitals by use of phage-derived open reading frame typing enhanced by multiplex PCR and reverse line blot assay. *J Clin Microbiol* **48**:2741-2748.