

**Table S1 Strain collections used in this work**

Strain collection	Source	Description	Number screened
NARSA <sup>a</sup>	NARSA <sup>a</sup> , US	Human clinical	10
CDC <sup>b</sup>	Centers for Disease Control and Prevention, US	Human clinical	64 <sup>b</sup>
Veterinary	University of Georgia, GA, US	Companion animal	14
Poultry	University of Georgia, GA, US	Poultry litter	8
Nebraska	University of Nebraska Medical Center, NE, US	Human clinical	51
Western Australia	Curtin University of Technology, Perth, Western Australia	Human clinical	35
United Kingdom	University of London, London, UK	Human and animal clinical, screenings and infections	65
Historic	University of Sydney, Sydney, AU	Human clinical	29
<b>Total</b>			<b>280</b>

<sup>a</sup> Network on Antimicrobial Resistance in *Staphylococcus aureus* (NARSA) (<http://www.narsa.net>)

<sup>b</sup> There were four additional transconjugant strains with plasmids from human clinical strains in this collection (McDougal *et al.* 2008).

**Table S2 Strain information and restriction types for *Staphylococcus* (and two *Enterococcus*) plasmid sequences obtained.<sup>a</sup>**

Accession	Plasmid	Size	Strain	Species	Plasmid Genotype <sup>b</sup>	RT	Sequence	Year	Location	Status	Other strain info <sup>c</sup>	Plasmid phenotype <sup>d</sup>	Identified by
GQ900386	SAP020A	64909	CDC3	<i>S. sp. (CNS)</i>	<i>bin, repA</i> , Type Ib partitioning	RT44	complete	1996	GA, USA	human clinical isolate	OxS		Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900421	SAP068A	50500	PM64	<i>S. aureus</i>	<i>aacA-aphD, dfr, tcaA, tra, res, Tn552, IS256 x2, repA</i> , Type II partitioning	RT83	complete	1999	SGH, London, UK	clinical, hospital-acquired infection	HA-MRSA		Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA
GQ900379	SAP014A	50429	CDC58	<i>S. aureus</i>	<i>tra, res, aacA-aphD, IS256 x2, tcaA, tet, pre, dfr, ble, kan, repA</i> , Type II partitioning	RT47	complete	2000	MS, USA	human clinical isolate	HA-MRSA		Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA
GQ900432	SAP079A	47322	CDCGA672	<i>S. aureus</i>	<i>tra, res, aacA-aphD, IS256 x2, tcaA, kan, multidrug resistance, repA</i> , Type II partitioning	RT112	complete		GA, USA	human clinical isolate			Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA

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GQ900448	pSK156	45052	SK1271	<i>S. aureus</i>	<i>cadXD</i> , antiseptic resistance, <i>sin</i> , $\Delta$ Tn552, <i>se</i> , bacteriocin, <i>repA</i> , <i>par</i>	RT97	complete	1951	Melbourne, Australia	human clinical isolate	AsaPcQacB
GQ900434	SAP082A	44116	CDCPANICU	<i>S. aureus</i>	<i>tra</i> , <i>res</i> , <i>kan</i> , <i>tcaA</i> , IS256 x2, <i>aacA-aphD</i> , multidrug efflux, <i>repA</i> , Type II partitioning	RT115	complete		PA, USA	human clinical isolate	
GQ900433	SAP080A	43892	CDCTN147	<i>S. aureus</i>	<i>tra</i> , <i>res</i> , <i>ble</i> , <i>kan</i> , IS256 x2, <i>aacA-aphD</i> , <i>tcaA</i> , <i>dfr</i> , <i>repA</i> , Type II partitioning	RT113	complete		TN, USA	human clinical isolate	
GQ900381	SAP016A	43807	CDC8	<i>S.</i> <i>epidermidis</i>	<i>aacA-aphD</i> , <i>ble</i> , <i>kan</i> , multidrug efflux, <i>mob</i> , <i>pre</i> , <i>res</i> , <i>tcaA</i> , $\Delta$ Tn552, IS256 x2, <i>repA</i> , <i>rep</i> , <i>par</i>	RT51	complete	1999	CA, USA	human clinical isolate	OxS

GQ900456	SAP107A	42623	SK30	<i>S. epidermidis</i>	<i>bin, cadXD</i> , multidrug efflux, <i>asp/sec, repA</i> , Type Ib partitioning	RT106	complete	1980	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900422	SAP069A	42198	PM79	<i>S. aureus</i>	<i>tra, res, IS256 x2, aacA-aphD, kan, tcaA</i> , multidrug efflux, <i>repA</i> , Type II partitioning	RT41	complete	1999	SGH, London, UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900415	SAP057A	39308	3049	<i>S. aureus</i>	<i>cadXD, etb</i> , bacteriocin, <i>exo, pls, repA</i> , Type Ib partitioning	RT26	complete	1999	Oxford, UK	not from infection	MSSA	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900454	SAP106A	38556	SK939	<i>S. epidermidis</i>	<i>ars, mob, sin, ΔTn552</i> , bacteriocin/lantibiotic, <i>repA, rep</i> , Type Ib partitioning	RT104	complete	1946	Melbourne, Australia	human clinical isolate		Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900389	pWBG745	38204	WB43S	<i>S. aureus</i>	<i>tra</i> (incomplete), <i>repA</i> , Type Ib partitioning	RT11	complete	2001	Remote Western Australia	screening	ST73-MRSA-IVa (2B)	University of Western Australia

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GQ900391	pWBG749	38087	WBG8381	<i>S. aureus</i>	<i>tra</i> (incomplete), <i>repA</i> , Type Ib partitioning	RT10	complete	1995	Remote Western Australia	screening	ST5-MRSA-IVa (2B)
GQ900400	pWBG758	38045	Y74T	<i>S. aureus</i>	only phage genes	RT16	complete	1996	Remote Western Australia	screening	ST761-MSSA
GQ900402	SAP045A	37564	CDC9	<i>S. epidermidis</i>	<i>bla</i> , bacitracin, multidrug resistance, <i>sin</i> , <i>repA</i> , <i>par</i>	RT62	complete	2000	FL, USA	human clinical isolate	OxS
GQ900427	SAP076A	35114	PM86	<i>S. aureus</i>	<i>ars</i> , <i>bin</i> , <i>cadCA</i> , <i>pre</i> , <i>sin</i> , metal transporting ATPase, <i>repA</i> , <i>rep</i> , <i>par</i>	RT30	complete	1999	SGH, London, UK	not from infection	HA-MRSA
GQ900428	SAP077A	35510	879R4RF	<i>S. aureus</i>	<i>ars</i> , <i>bin</i> , <i>cadCA</i> , <i>pre</i> , <i>sin</i> , metal transporting ATPase, biofilm- associated protein, <i>repA</i> , <i>rep</i> , <i>par</i>	RT31	complete	1982	USA	not from infection	MSSA

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GQ900430	SAP078A	35508	A78R1	<i>S. aureus</i>	<i>ars, bin, cadCA, pre, sin,</i> metal transporting <i>ATPase, repA, rep, par</i>	RT31	complete	2007	UK	not from infection	MRSA
GQ900390	pWBG746	33702	WB43S	<i>S. aureus</i>	<i>cadXD, sin, se, bacteriocin,</i> <i>exo, repA, par</i>	RT12	complete	2001	Remote Western Australia	screening	ST73-MRSA-IVa (2B)
GQ900399	pWBG747	33701	K153N	<i>S. aureus</i>	<i>cadXD, se, bacteriocin,</i> <i>exo, sin, repA, par</i>	RT12	complete	1995	Remote Western Australia	screening	ST73-MSSA
GQ900387	pCM05	33660	CM05	<i>S. aureus</i>	<i>ars, cadCA, cadXD, mer,</i> <i>sin x2, Tn552, bin, repA,</i> <i>par</i>	RT84	complete	2005	Medellin, Colombia	human clinical pneumonia isolate, sputum	ST5-MRSA-mec I
GQ900382	SAP017A	32650	VET A0- 49420c	<i>S. aureus</i>	<i>aacA-aphD, dfr, cadXD,</i> <i>Tn552Δ, blaZ, IS256 x3,</i> <i>repA, par</i>	RT63	complete	2000	Hendersonville Co, NC, USA	equine abscess isolate	USA500 t064 ST250-mec IVa

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GQ900383	SAP018A	32487	CDC25	<i>S. sp. (CNS)</i>	<i>aacA-aphD, dfr, mob,</i> putative nickase, $\Delta$ Tn552, <i>sin, IS256 x2, repA, rep,</i> <i>par</i>	RT65	complete	2001	AR, USA	human clinical isolate	OxR
GQ900412	SAP052A	32445	NE 3885	<i>S. aureus</i>	<i>cadXD, sin, <math>\Delta</math>Tn552, aph,</i> <i>sta, aad, bacitracin</i> resistance, <i>mac, ery,</i> multidrug efflux, <i>repA, par</i>	RT6 (RT3- like)	complete	2007	NE, USA	human clinical isolate, wound	
GQ900419	SAP064A	30857	EMRSA-3	<i>S. aureus</i>	<i>cadCA, cadXD, mer,</i> antiseptic resistance, $\Delta$ Tn552, <i>sin, repA, par</i>	RT35	complete	1987	UK	clinical, hospital- acquired infection	HA-MRSA
GQ900395	pWBG753	30047	WBG7583	<i>S. aureus</i>	<i>cadCA, tet, Tn552, sin,</i> <i>pre, repA, par</i>	RT14	complete	1995	Remote Western Australia	screening	ST8-MRSA-IVa (2B)

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GQ900388	SAP027A	29646	NE 3828	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, aph, sta, aad, bacitracin resistance, mac, ery, antiseptic resistance, repA, par</i>	RT7 (RT3-like)	complete	2006	NE, USA	human clinical isolate, wound	
GQ900378	pl258	29254	NRS128	<i>S. aureus</i>	<i>ars, cadCA, mer, sin, ΔTn552, mac-linc-str-ery, repA, par</i>	RT66	complete	pre-1963			
GQ900405	SAP047A	28974	NE 3008	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, pre, ser, sej, ses, set, repA, rep, par</i>	RT4	complete	2005	NE, USA	human clinical isolate, synovial fluid	
GQ900401	pWBG759	28384	C57S	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, sdrE, repA, par</i>	RT19	complete	1995	Remote Western Australia	screening	ST20-MSSA
GQ900447	pSK67	27439	SK1027	<i>S. aureus</i>	<i>cadXD, ser, sej, sed, sin, ΔTn552, repA, par</i>	RT2	complete	1949	Melbourne, Australia	human clinical isolate	CdPc
GQ900385	SAP019A	27435	NRS104	<i>S. aureus</i>	<i>ars, cadCA, bin, sin, pre, bacteriocin, metal</i>	RT73	complete	1935	USA		



GQ900380	SAP015A	27068	CDC61	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, aph, sta, aad, bacitracin resistance, mac, ery, rep, par</i>	RT3	complete	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900403	SAP046A	27068	VET A6-001648	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, aph, sta, aad, bacitracin resistance, mac, ery, repA, par</i>	RT3	complete	2005	Clarke Co, GA, USA	canine abscess isolate	USA300 t008 ST8-ORSA-IV
GQ900409	SAP050A	27067	NE 3874	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, aph, sta, aad, bacitracin resistance, mac, ery, repA, par</i>	RT3	complete	2007	NE, USA	human clinical isolate, wound	
GQ900452	SAP105A	26236	SK933	<i>S. epidermidis</i>	<i>cadCA, cadXD, mer, sin, bacteriocin, repA, par</i>	RT102	complete	1946	Melbourne, Australia	human clinical isolate	
GQ900418	SAP063A	26016	EMRSA-2	<i>S. aureus</i>	<i>cadXD, ΔTn552, sin, repA, par</i>	RT34	complete	1987	UK	clinical, hospital-acquired	HA-MRSA

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GQ900407	SAP049A	25022	NE 3868	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552, aph, sta, aad, bacitracin resistance, mac, ery, repA, par</i>	RT5 (RT3-like)	complete	2007	NE, USA		human clinical isolate, eye		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900465	SAP110A	24711	SK6536	<i>S. epidermidis</i>	<i>aac, antiseptic resistance, bla, metal transport, repA, rep, par</i>	RT111	complete	2000	Sydney, Australia		human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900394	pWBG752	24654	WBG8404	<i>S. aureus</i>	<i>ars, cadXD, pre, sin, Tn552, bacteriocin, repA, rep, par</i>	RT13	complete	1995	Remote Western Australia		screening	ST45-MRSA-V (5C2)	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900458	SAP108A	24518	SK85	<i>S. epidermidis</i>	<i>aac, cadXD, antiseptic resistance, mac, ery, sin, metal transport, repA, rep, par</i>	RT108	complete	1980	Melbourne, Australia		human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900444	pSK76	23983	SK1373	<i>S. aureus</i>	<i>ars, cadCA, mer, sin, ΔTn552, repA, par</i>	RT94	complete	1960	Melbourne, Australia		human clinical isolate	AsaCdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU

GQ900462	pSK105	23263	SK356	<i>S. epidermidis</i>	<i>aacA-aphD</i> , IS256 x2, antiseptic resistance, <i>sin</i> , <i>repA</i> , <i>par</i>	RT109	complete	1980	Melbourne, Australia	human clinical isolate	QacAGmKm	Sciences, University of Sydney, Sydney, AU Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Kenneth Bayles: Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, USA Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900410	SAP051A	23059	NE 3883	<i>S. aureus</i>	<i>cadXD</i> , <i>sin</i> , $\Delta$ Tn552, <i>aph</i> , <i>sta</i> , <i>aad</i> , <i>mac</i> , <i>ery</i> , <i>repA</i> , <i>par</i>	RT8 (RT3-like)	complete	2007	NE, USA	human clinical isolate, wound		Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, USA Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900416	SAP060A	22987	502A	<i>S. aureus</i>	<i>abiK</i> , <i>cadXD</i> , <i>ser</i> , <i>sej</i> , <i>sed</i> , <i>sin</i> , <i>repA</i> , <i>par</i>	RT29 (RT2-like)	complete	pre-1960s	USA	not from infection	MSSA	Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900446	pSK62	22694	SK1397	<i>S. aureus</i>	<i>ars</i> , Tn552 $\Delta$ , <i>cadCA</i> , <i>mer</i> , <i>sin</i> x2, <i>repA</i> , <i>par</i>	RT95	complete	1967	Melbourne, Australia	human clinical isolate	AsaCdHg	Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900435	p5753cA	21806	5753c	<i>E. faecium</i>	<i>cad</i> , <i>van</i> , bacteriocin, iron transport	RT116	complete			human clinical isolate		Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of

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GQ900467	pWBG763	20730	WBG8366	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	1995	Remote Western Australia	screening	ST78-MRSA-IVa (2B)
GQ900397	pWBG757	20730	W17S	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	1995	Remote Western Australia	screening	ST93-MSSA
GQ900425	SAP073A	20729	207	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	1999	Oxford, UK	clinical, community-acquired infection	CA-MSSA
GQ900413	SAP053A	20672	NE 3890	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	2007	NE, USA	human clinical isolate, wound	

GQ900392	pWBG750	20653	WBG8287	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	1995	Royal Perth Hospital, WA	clinical, community-acquired infection	ST1-MRSA-IVa (2B)	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900424	SAP072A	20653	30067	<i>S. aureus</i>	<i>cadXD, pre, sin, Tn552, bacteriocin, rep, par</i>	RT1	complete	2004	UK	clinical, animal isolate		Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900414	SAP055A	20453	434	<i>S. aureus</i>	<i>ars, cadXD, sin, repA, par</i>	RT24	complete	1999	Oxford, UK	clinical, community-acquired infection	CA-MSSA	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900453	SAP105B	16775	SK933	<i>S. epidermidis</i>	<i>sin, repA, par</i>	ND	complete	1946	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900449	SAP099B	16428	SK1271	<i>S. aureus</i>	<i>ars, sin x2, repA, Type Ib partitioning</i>	ND	complete	1951	Melbourne, Australia	human clinical isolate	AsaPcQacB	

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GQ900429	SAP077B	13342	879R4RF	<i>S. aureus</i>	<i>traG</i> , possible ICE related to ICE6013	ND	complete	1982	USA	not from infection	MSSA
GQ900457	SAP107B	10445	SK30	<i>S. epidermidis</i>	antiseptic resistance, <i>mob, sin, repA, par</i>	ND	complete	1980	Melbourne, Australia	human clinical isolate	
GQ900376	SAP008A	9968	693-2	<i>S. sp.</i>	<i>ars, mob, rep</i>	ND	complete	2001	GA, USA	chicken litter isolate	int11-positive
GQ900455	SAP106B	8435	SK939	<i>S. epidermidis</i>	<i>mob x2, rep</i>	ND	complete	1946	Melbourne, Australia	human clinical isolate	
GQ900384	SAP018B	8226	CDC25	<i>S. sp. (CNS)</i>	<i>mob, rep</i>	ND	complete	2001	AR, USA	human clinical isolate	OxR

GQ900466	SAP110B	6794	SK6536	S. <i>epidermidis</i>	<i>rep remnant</i>	ND	complete	2000	Sydney, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900459	SAP108B	6206	SK85	S. <i>epidermidis</i>	<i>mob x2, rep</i>	ND	complete	1980	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900463	pSK103	4607	SK356	S. <i>epidermidis</i>	<i>mob, cat</i>	ND	complete	1980	Melbourne, Australia	human clinical isolate	Cm	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900436	SAP084A	4595	SK1064	<i>S. aureus</i>	<i>mob, cat</i>	ND	complete	1953	Melbourne, Australia	human clinical isolate	Cm	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900440	SAP089A	4595	SK1404	<i>S. aureus</i>	<i>mob, cat</i>	ND	complete	1966	Melbourne, Australia	human clinical isolate	Cm	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900460	SAP108C	4572	SK85	S. <i>epidermidis</i>	<i>mob</i>	ND	complete	1980	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological

Sciences, University of Sydney, Sydney, AU  
 Jodi Lindsay.  
 Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK  
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 Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU  
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 Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU

GQ900417	SAP060B	4498	502A	<i>S. aureus</i>	<i>pre, tet</i>	ND	complete	pre-1960s	USA	not from infection	MSSA	
GQ900437	SAP085A	4439	SK1396	<i>S. aureus</i>	<i>pre, tet</i>	ND	complete	1965	Melbourne, Australia	human clinical isolate		Tc
GQ900441	SAP093A	4439	SK1529	<i>S. aureus</i>	<i>pre, tet</i>	ND	complete	1965	Melbourne, Australia	human clinical isolate		Tc
GQ900443	SAP094A	4439	SK449	<i>S. aureus</i>	<i>pre, tet</i>	ND	complete	1981	Melbourne, Australia	human clinical isolate		Tc
GQ900445	SAP095B	4439	SK1373	<i>S. aureus</i>	<i>pre, tet</i>	ND	complete	1960	Melbourne, Australia	human clinical isolate		Tc

AU

Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU

Susan Sanchez: Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, GA, USA

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Ron Skurray, Neville

GQ900438	SAP085B	3961	SK1396	<i>S. aureus</i>	<i>pre, mac-linc-str-ery</i>	ND	complete	1965	Melbourne, Australia	human clinical isolate	AsaCdHg
GQ900404	SAP046B	3125	VET A6-001648	<i>S. aureus</i>		ND	complete	2005	Clarke Co, GA, USA	canine abscess isolate	mec type IVh
GQ900408	SAP049B	3125	NE 3868	<i>S. aureus</i>		ND	complete	2007	NE, USA	human clinical isolate, eye	
GQ900411	SAP051B	3125	NE 3883	<i>S. aureus</i>		ND	complete	2007	NE, USA	human clinical isolate, wound	
GQ900450	SAP104A	3011	SK6575	<i>S. aureus</i>		ND	complete	1998	Bangkok,	human	

									Thailand	clinical isolate		Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900423	SAP070A	3011	S54	<i>S. aureus</i>		ND	complete	2003	London, UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900420	SAP065A	2908	EMRSA-10	<i>S. aureus</i>	<i>cat</i>	ND	complete	1987	UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900393	pWBG751	2473	WBG8287	<i>S. aureus</i>	<i>mac-linc-str-ery</i>	ND	complete	1995	Royal Perth Hospital, WA	clinical, community-acquired infection	ST1-MRSA-IVa (2B)	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900461	SAP108D	2422	SK85	<i>S. epidermidis</i>		ND	complete	1980	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900464	pSK108	2418	SK356	<i>S. epidermidis</i>	<i>smr, partial qacC</i>	ND	complete	1980	Melbourne, Australia	human clinical	QacC	Ron Skurray, Neville Firth, Slade Jensen:

											isolate		School of Biological Sciences, University of Sydney, Sydney, AU
GQ900431	SAP078B	2415	A78R1	<i>S. aureus</i>	mac-linc-str-ery	ND	complete	2007	UK		not from infection	MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900468	pWBG764	2397	WBG8366	<i>S. aureus</i>		ND	complete	1995	Remote Western Australia		screening	ST78-MRSA-IVa (2B)	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900439	SAP087A	2396	SK1020	<i>S. aureus</i>		ND	complete	1947	Melbourne, Australia		human clinical isolate	AsaCdHg	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900396	pWBG754	2241	WA8	<i>S. aureus</i>	multidrug efflux	ND	complete	2003	Royal Perth Hospital, WA		clinical, community-acquired infection	ST75-MRSA-IVa (2B)	School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900451	SAP104B	1552	SK6575	<i>S. aureus</i>		ND	complete	1998	Bangkok, Thailand		human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University



GQ900491	pSK23	41993	SK654	<i>S. aureus</i>	<i>bin x2, bla, cadCA, cadXD, mer, sin, aacA-aphD, antiseptic resistance, IS256 x2</i>	RT91	partial, single gap ~20 bp	1981	Hobart, Australia	human clinical isolate	CdHgQacBGmKm	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900490	pSK21	37046	SK413	<i>S. aureus</i>	<i>cadCA, cadXD, mer, sin, antiseptic resistance, ΔTn552</i>	RT90	partial, single gap ~20 bp	1981	Melbourne, Australia	human clinical isolate	CdHgPcQacB	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900489	pSK79	35850	SK1215	<i>S. aureus</i>	<i>ars, cadCA, cadXD, mer, sin x2, ΔTn552</i>	RT87	partial, single gap ~20 bp	1953	Melbourne, Australia	human clinical isolate	AsaCdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900488	pSK59	29570	SK1396	<i>S. aureus</i>	<i>ars, cadCA, cadXD, mer, sin x2, Tn552Δ</i>	RT86	partial, single gap ~20 bp	1965	Melbourne, Australia	human clinical isolate	AsaCdHg	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900484	SAP070B	29531	S54	<i>S. aureus</i>	<i>antiseptic resistance, cadCA, cadXD, mer, sin, Tn552Δ</i>	RT42	partial, single gap ~20 bp	2003	London, UK	clinical, hospital- acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900482	SAP066A	32122	EMRSA-17	<i>S. aureus</i>	<i>cadCA, cadXD, mer, sin, antiseptic resistance,</i>	RT39	partial, single gap ~20 bp	2000	UK	clinical, hospital-	HA-MRSA	Jodi Lindsay. Department of

Accession	Strain	Year	Source	Species	Genetic Elements	Insertion Site	Insertion Type	Year	Location	Context	Strain Type	Researcher/Institution
					$\Delta$ Tn552, IS256					acquired infection		Cellular and Molecular Medicine, St. George's, University of London, London, UK Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900481	SAP065B	26750	EMRSA-10	<i>S. aureus</i>	<i>ars, cadCA, cadXD, sin, Tn552, bin</i>	RT36	partial, single gap ~20 bp	1987	UK	clinical, hospital-acquired infection	HA-MRSA	Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900480	SAP059A	26243	3172	<i>S. aureus</i>	<i>cadXD, sin, sdrE, pls</i>	RT28	partial, single gap ~20 bp	1999	Oxford, UK	not from infection	MSSA	Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900475	pWBG762	54023	K102N	<i>S. aureus</i>	<i>cadXD, pre, se x2, sin, Tn552, bacteriocin</i>	RT22	partial, single gap ~20 bp	1995	Remote Western Australia	screening	ST508-MSSA	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900472	pWBG756	24456	WSPP	<i>S. aureus</i>	<i>cadXD, sin, Tn552</i>	RT18	partial, single gap ~20 bp	2002	Royal Perth Hospital, WA	clinical, community-acquired infection	ST30-MRSA-IV	University of Technology, Perth, Western Australia

GQ900471	pWBG755	25607	WA8	<i>S. aureus</i>	<i>cadXD, sin, ΔTn552</i>	RT117	partial, single gap ~20 bp	2003	Royal Perth Hospital, WA	clinical, community- acquired infection	ST75-MRSA-IVa (2B)	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900469	SAP024A	47352	CDC19	<i>S. epidermidis</i>	<i>cadXD, mob, sin</i>	RT48	partial, single gap ~20 bp	1998	WI, USA	human clinical isolate	OxR	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915272	pSK53	24475	SK1700	<i>S. aureus</i>	Tn552, <i>tra1</i> , possible ICE	ND	partial	1975	Melbourne, Australia	human clinical isolate	CdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915271	phage SAP090B	26877	SK1700	<i>S. aureus</i>	only phage genes	ND	partial	1975	Melbourne, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915270	pSK53	38886	SK1700	<i>S. aureus</i>	<i>cadCA, cadXD, mer, qaca, sin, ΔTn552</i>	ND	partial	1975	Melbourne, Australia	human clinical isolate	CdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU

GQ915269	pSK73	39907	SK1404	<i>S. aureus</i>	mac-linc-str-ery, aad	RT88	partial	1966	Melbourne, Australia	human clinical isolate	AsaCdHg	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915268	pSK64	34784	SK1020	<i>S. aureus</i>	ars, cadCA, cadXD, mer, sin, Tn552Δ	RT87	partial	1947	Melbourne, Australia	human clinical isolate	AsaCdHg	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915267	pSK60	35175	SK1011	<i>S. aureus</i>	ars, cadCA, cadXD, mer, sin, ΔTn552	RT87	partial	1947	Melbourne, Australia	human clinical isolate	AsaCdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915266	pSK74	35327	SK1064	<i>S. aureus</i>	ars, cadCA, cadXD, mer, Tn552, bin, blaI, blaR1	RT85	partial	1953	Melbourne, Australia	human clinical isolate	AsaCdHgPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ915265	pWBG748	44964	WBG8381	<i>S. aureus</i>	bla, tra (incomplete)	RT9	partial	1995	Remote Western Australia	screening human clinical isolate	ST5-MRSA-IVa (2B)	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ915264	SAP015B	7069	CDC61	<i>S. aureus</i>		RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA	Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of

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GQ915263	SAP015B	12605	CDC61	<i>S. aureus</i>	<i>tra</i> (incomplete), possible ICE	RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900515	SAP102B	1858	SK6523	<i>S. aureus</i>		ND	partial	2000	Sydney, Australia	human clinical isolate	
GQ900514	pSK17	7929	SK707	<i>S. aureus</i>	<i>sin</i> , <i>aacA-aphD</i> , antiseptic resistance, IS256	RT96	partial	1981	Melbourne, Australia	human clinical isolate	PcQacAGmKmTp
GQ900513	pSK17 phage	9968	SK707	<i>S. aureus</i>		RT96	partial	1981	Melbourne, Australia	human clinical isolate	PcQacAGmKmTp
GQ900512	SAP090D	10726	SK1700	<i>S. aureus</i>	only phage genes	ND	partial	1975	Melbourne, Australia	human clinical isolate	

										isolate		School of Biological Sciences, University of Sydney, Sydney, AU
GQ900511	SAP076B	1979	PM86	<i>S. aureus</i>		ND	partial	1999	SGH, London, UK	not from infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900510	SAP067B	1415	PM62	<i>S. aureus</i>		ND	partial	1999	SGH, London, UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900509	SAP062D	4764	EMRSA-1	<i>S. aureus</i>	antiseptic resistance, IS256	RT33	partial	1984	UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900508	SAP062C	6516	EMRSA-1	<i>S. aureus</i>	<i>mob</i> , IS256	RT33	partial	1984	UK	clinical, hospital-acquired infection	HA-MRSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK

GQ900507	SAP062B	9840	EMRSA-1	<i>S. aureus</i>	Tn552, <i>sin</i>	RT33	partial	1984	UK	clinical, hospital- acquired infection	HA-MRSA
GQ900506	SAP062A	10083	EMRSA-1	<i>S. aureus</i>		RT33	partial	1984	UK	clinical, hospital- acquired infection	HA-MRSA
GQ900505	SAP024B	14823	CDC19	<i>S. epidermidis</i>	<i>mob, dfr</i>	ND	partial	1998	WI, USA	human clinical isolate	OxR
GQ900504	SAP015B	2712	CDC61	<i>S. aureus</i>		RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900503	SAP015B	2993	CDC61	<i>S. aureus</i>		RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA

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GQ900502	SAP015B	6774	CDC61	<i>S. aureus</i>	lincosamide resistance	RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900501	SAP015B	9066	CDC61	<i>S. aureus</i>	<i>res</i>	RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900500	SAP015B	21860	CDC61	<i>S. aureus</i>	<i>tra, aacA-aphD, kan, IS256</i> x2	RT50	partial	2002	CA, USA	human clinical isolate	HA-MRSA
GQ900499	pSK101	4256	SK356	<i>S. epidermidis</i>	<i>tet</i>	ND	partial	1980	Melbourne, Australia	human clinical isolate	

GQ900498	SAP104C	29343	SK6575	<i>S. aureus</i>	<i>bin, cadCA, cadXD, mer, sin</i> , antiseptic resistance, IS256	RT101	partial	1998	Bangkok, Thailand	human clinical isolate		of Sydney, Sydney, AU Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900496	SAP102A	36082	SK6523	<i>S. aureus</i>	<i>ars, bin, cadCA, sin, pre</i> , biofilm-associated protein, metal transport	RT99	partial	2000	Sydney, Australia	human clinical isolate		Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU
GQ900494	pSK77	27694	SK1499	<i>S. aureus</i>	<i>sin, dfr, aacA-aphD</i> , antiseptic resistance, IS256 x2	RT96	partial	1965	Melbourne, Australia	human clinical isolate	CdPc	Ron Skurray, Neville Firth, Slade Jensen: School of Biological Sciences, University of Sydney, Sydney, AU Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA
GQ900487	p5753cB	56689	5753c	<i>E. faecium</i>	<i>sin, aac, aph, aad, sta, mac-linc-str</i> , bacteriocin, iron transport, IS256, <i>mob, tet</i>	RT116	partial			human clinical isolate		Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's,
GQ900486	SAP075A	37050	B111	<i>S. aureus</i>	<i>ars, bin, cadCA, pre, sin</i> , metal transport, biofilm-associated protein	RT30	partial	1992	London, UK		MSSA	St. George's,

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GQ900485	SAP071A	26883	C00704	<i>S. aureus</i>	<i>pls, abiK, cadXD, sin,</i> $\Delta$ Tn552	RT20	partial	2004	UK	clinical, animal isolate	
GQ900483	SAP067A	37206	PM62	<i>S. aureus</i>	<i>ars, bin, cadCA, pre, sin,</i> metal transport, biofilm- associated protein	RT40	partial	1999	SGH, London, UK	clinical, hospital- acquired infection	HA-MRSA
GQ900479	SAP058A	22439	3134	<i>S. aureus</i>	<i>abiK, cadXD, sin, pls</i>	RT27	partial	1999	Oxford, UK	not from infection	MSSA
GQ900478	SAP056A	27128	3041	<i>S. aureus</i>	<i>cadXD</i> , biofilm-associated protein	RT25	partial	1999	Oxford, UK	not from infection	MSSA

GQ900477	SAP054A	37475	49	<i>S. aureus</i>	<i>ars, bin, cadCA, pre, sin,</i> metal transport	RT23	partial	1999	Oxford, UK	clinical, community- acquired infection	CA-MSSA	Jodi Lindsay. Department of Cellular and Molecular Medicine, St. George's, University of London, London, UK
GQ900476	SAP044A	36242	693-7	<i>S. sp. (CNS)</i>	<i>cadXD, pre,</i> bacitracin resistance	RT59	partial	2001	GA, USA	chicken litter isolate	int11-positive	Sobhan Nandi: Department of Microbiology, University of Georgia, Athens, GA, USA
GQ900474	pWBG761	26838	C33S	<i>S. aureus</i>	<i>abiK, cadXD, sin, pls,</i> $\Delta$ Tn552	RT20	partial	1995	Remote Western Australia	screening	ST12-MSSA	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900473	pWBG760	4412	C57S	<i>S. aureus</i>		ND	partial	1995	Remote Western Australia	screening	ST20-MSSA	Frances O'Brien. School of Biomedical Sciences, Curtin University of Technology, Perth, Western Australia
GQ900470	SAP025A	35220	CDC2	<i>S. epidermidis</i>	<i>bin, sin, sdrE</i>	RT57	partial	1996	SC, USA	human clinical isolate	OxS	Jean Patel, Ainsley Nicholson, Brandi Limbago: Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA, USA

<sup>a</sup> Complete sequences are sorted first by descending size, then partial sequences with a single gap by size, then partial sequences by descending accession number

<sup>b</sup> Selected genotype highlights, not an all-inclusive list of genes:

Tn552 = *p271*, *p480* (or Tn552 transposase), *bin*, *blaI*, *blaR1*, *blaZ*

$\Delta$ Tn552 = *bin*, *blaI*, *blaR1*, *blaZ*

Tn552 $\Delta$  = *p271*, *p480* (or Tn552 transposase), *bin*

IS256 = IS256 transposase

*aac* = aminoglycoside N-acetyltransferase

*aacA-aphD* = aminoglycoside resistance

*aad* = aminoglycoside 6-adenylyltransferase

*aph* = Aminoglycoside 3'-phosphotransferase (Kanamycin kinase, type III) (Neomycin-kanamycin phosphotransferase type III)

*asp/sec* = secretion of virulence glycoproteins

*bla* = *blaI*, *blaR1*, *blaZ*

*ble* = bleomycin resistance

*cad* = cadmium resistance: *cadD*, *cadX*, *cadC*, *cadA*

*cat* = chloramphenicol acetyltransferase

*dfr* = dihydrofolate reductase

*ery* = erythromycin resistance

*etb* = exfoliatin B

*exo* = exoenzyme C3 precursor

*kan* = kanamycin resistance

*mac* = macrolide resistance

*mac-linc-str* = rRNA adenine N-6-methyltransferase (Macrolide-lincosamide-streptogramin B resistance protein)

*mob* = mobilization gene(s)

*par* = pSK1-type plasmid partitioning; only identified for complete sequences

*pls* = antiadhesin PIs, binding to squamous nasal epithelial cells

*pre* = plasmid recombination enzyme, relaxase

*qacA* or *qacC* = antiseptic resistance

*repA* = N-type replication initiation; only identified for complete sequences

*rep* = pSK639-type replication; only identified for complete sequences

*sdrE* = adhesin protein

*se* = staphylococcal enterotoxin

*smr* = multidrug efflux protein

*sta* = streptothricin acetyltransferase

*tcaA* = teicoplanin resistance

*tet* = tetracycline resistance

*tra* = conjugative transfer loci

Type Ib and II partitioning only identified for complete sequences

<sup>c</sup> OxR/S = oxacillin resistant/sensitive

CA = community-associated  
HA = hospital-associated  
MRSA = methicillin resistant *Staphylococcus aureus*  
MSSA = methicillin sensitive *Staphylococcus aureus*  
ST = MLST sequence type

<sup>d</sup> Previously determined plasmid phenotypes

Asa = arsenate/arsenite  
Cd = cadmium  
Cm = chloramphenicol  
Gm = gentamycin  
Hg = mercury  
Km = kanamycin  
Pc = penicillin  
QacA/B/C = quaternary ammonium antiseptic  
Tc = tetracycline  
Tp = trimethoprim

**Table S3 Large plasmid content of newly screened *Staphylococcus* strains**

	Number of strains (%)
Total newly examined <sup>a</sup>	247
1 or more plasmids >20kb	194 (78.5%)
Only <20kb plasmids	25 (10.1%)
No plasmids	28 (11.3%)

<sup>a</sup> These strains were not previously examined for plasmid content