

Supplementary Table S1. The accession numbers and detailed information on the 34 *S. aureus* ST188 genome sequences were downloaded from PubMLST

No.	id	isolate	country	year	disease	source category	source	seven housekeeping genes for MLST						ST	CC	
								arcC	aroE	glpF	gmk	pta	tpi			yqiL
1	id-36939	DC53229	China	2008	none (food/environmental)	food	food	3	1	1	8	1	1	1	188	CC1
2	id-36971	DC53229	China	2008	none (food/environmental)	food	food	3	1	1	8	1	1	1	188	CC1
3	id-37738	ISA091	Australia		invasive (unspecified/other)	human	unknown	3	1	1	8	1	1	1	188	CC1
4	id-37776	ISA130	Australia		invasive (unspecified/other)	human	unknown	3	1	1	8	1	1	1	188	CC1
5	id-37797	ISA162	New Zealand		invasive (unspecified/other)	human	unknown	3	1	1	8	1	1	1	188	CC1
6	id-37866	ISA234	New Zealand		invasive (unspecified/other)	human	unknown	3	1	1	8	1	1	1	188	CC1
7	id-37888	ISA256	Australia		invasive (unspecified/other)	human	unknown	3	1	1	8	1	1	1	188	CC1
8	id-38793	7726-MF-26	USA		unknown	human	skin swab	3	1	1	8	1	1	1	188	CC1
9	id-38843	8328-MF-77	USA		unknown	human	skin swab	3	1	1	8	1	1	1	188	CC1
10	id-41851	SS_1544	Germany	2013	invasive (unspecified/other)	human	medical device	3	1	1	8	1	1	1	188	CC1
11	id-41943	Hu85c	UK		unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
12	id-42325	Z_34	Denmark	2010	other	animal	animal	3	1	1	8	1	1	1	188	CC1
13	id-42405	GKP138-73B	UK [England]	2012	unknown	animal	animal	3	1	1	8	1	1	1	188	CC1
14	id-42406	GKP138-73D	UK [England]	2012	unknown	animal	animal	3	1	1	8	1	1	1	188	CC1
15	id-42407	GKP138-73E	UK [England]	2012	unknown	animal	animal	3	1	1	8	1	1	1	188	CC1
16	id-42703	SGY37	China	2016	unknown	animal	animal	3	1	1	8	1	1	1	188	CC1
17	id-45149	GCA_009674245.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
18	id-45160	GCA_009675165.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
19	id-45161	GCA_009675235.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
20	id-45166	GCA_009675525.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
21	id-45173	GCA_009675905.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
22	id-45178	GCA_009676065.1	Argentina	2013	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
23	id-45189	GCA_010569275.1	Colombia	2018	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
24	id-45196	GCA_010569515.1	Colombia	2018	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
25	id-45228	GCA_011023185.1	Chile	2012	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
26	id-45237	GCA_011024205.1	Colombia	2011	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
27	id-45250	GCA_011025925.1	Colombia	2012	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
28	id-45262	GCA_011026985.1	Colombia	2012	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
29	id-45368	GCA_017698695.1	Argentina	2017	unknown	human	unknown	3	1	1	8	1	1	1	188	CC1
30	id-45486	8796-MF-013	USA	2004	unknown	human	skin swab	3	1	1	8	1	1	1	188	CC1
31	id-45895	8328-MF-8	USA	2015	bacteraemia	human	biopsy	3	1	1	8	1	1	1	188	CC1
32	id-46177	9118-VP-0004	USA	2012	unknown	human	sputum	3	1	1	8	1	1	1	188	CC1
33	id-46184	9118-VP-0011	USA	2012	unknown	human	sputum	3	1	1	8	1	1	1	188	CC1
34	id-46185	9118-VP-0012	USA	2012	unknown	human	sputum	3	1	1	8	1	1	1	188	CC1