

**Supplementary Table S1. Bacterial List.**

<i>Staphylococcus</i> spp.	Strain	Description <sup>a</sup>	Phage <sup>b</sup>				
			S6	S25-3	S13'	80	φMR25
<i>S. aureus</i>	RN4220	Without restriction modification system	○	○	○	○	○
<i>S. aureus</i>	SA1	A	○	○	○	x	○
<i>S. aureus</i>	SA2	A	○	○	○	x	○
<i>S. aureus</i>	SA3	A	○	○	○	x	LFW
<i>S. aureus</i>	SA4	A	○	○	○	○	LFW
<i>S. aureus</i>	SA5	A	○	LFW	○	x	○
<i>S. aureus</i>	SA6	A	○	LFW	○	x	○
<i>S. aureus</i>	SA7	A	○	LFW	LFW	x	○
<i>S. aureus</i>	SA8	A	○	LFW	LFW	○	○
<i>S. aureus</i>	SA9	A	○	○	○	○	○
<i>S. aureus</i>	SA10	A	○	○	○	x	○
<i>S. aureus</i>	SA12	A	○	LFW	○	x	○
<i>S. aureus</i>	SA14	A	○	○	○	x	○
<i>S. aureus</i>	SA15	A	○	○	○	○	○
<i>S. aureus</i>	SA16	A	○	○	○	x	○
<i>S. aureus</i>	SA17	A	○	○	○	○	○
<i>S. aureus</i>	SA18	A	○	○	○	x	○
<i>S. aureus</i>	SA19	A	x	○	x	x	○
<i>S. aureus</i>	SA21	A	○	○	○	○	○
<i>S. aureus</i>	SA22	A	○	○	○	○	○
<i>S. aureus</i>	SA23	A	○	○	○	x	LFW
<i>S. aureus</i>	SA24	A	○	LFW	LFW	x	○
<i>S. aureus</i>	SA25	A	○	○	○	LFW	LFW
<i>S. aureus</i>	SA26	A	○	LFW	x	x	○
<i>S. aureus</i>	SA27	A	○	○	○	x	○
<i>S. aureus</i>	SA28	A	○	○	○	x	LFW
<i>S. aureus</i>	SA30	A	○	○	○	x	○
<i>S. aureus</i>	SA31	A	○	○	x	x	○
<i>S. aureus</i>	SA32	A	○	LFW	LFW	x	○
<i>S. aureus</i>	SA33	A	○	○	○	x	LFW
<i>S. aureus</i>	SA34	A	○	LFW	LFW	x	○
<i>S. aureus</i>	SA36	A	○	○	LFW	x	○
<i>S. aureus</i>	SA37	A	○	LFW	○	○	○
<i>S. aureus</i>	SA38	A	○	○	○	x	○
<i>S. aureus</i>	SA39	A	○	○	○	x	○
<i>S. aureus</i>	SA40	A	○	LFW	LFW	○	○
<i>S. aureus</i>	SA41	A	○	○	○	○	○
<i>S. aureus</i>	SA42	A	○	○	○	○	○
<i>S. aureus</i>	SA43	A	○	○	○	x	○
<i>S. aureus</i>	SA44	A	○	○	○	○	○
<i>S. aureus</i>	SA45	A	○	○	○	○	○
<i>S. aureus</i>	SA46	A	○	○	○	○	○
<i>S. aureus</i>	SA47	A	○	○	○	x	○
<i>S. aureus</i>	SA48	A	○	○	○	x	○
<i>S. aureus</i>	IID 975		○	○	○	x	x
<i>S. aureus</i>	IID 980		○	○	x	○	LFW
<i>S. aureus</i>	IID 1677		○	○	○	x	x
<i>S. aureus</i>	VTU 209		○	○	○	x	x
<i>S. aureus</i>	COL		○	○	○	○	○
<i>S. aureus</i>	NCTC10442		○	○	○	○	○
<i>S. aureus</i>	85/2082		LFW	LFW	○	○	○
<i>S. aureus</i>	N315		○	○	LFW	x	x
<i>S. epidermidis</i>	IID866		x	○	x	x	x
<i>S. epidermidis</i>	ATCC12228		○	○	x	x	x
<i>S. epidermidis</i>	SE7	B	x	○	x	x	x
<i>S. epidermidis</i>	SE9	B	x	○	x	x	x
<i>S. epidermidis</i>	SE10	B	x	○	x	x	x
<i>S. epidermidis</i>	SE14	B	x	○	x	x	x
<i>S. epidermidis</i>	SE18	B	x	○	x	x	x

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<i>Staphylococcus</i> spp.	Strain	Description <sup>a</sup>	Phage <sup>b</sup>				
			S6	S25-3	S13'	80	φMR25
<i>S. epidermidis</i>	SE20	B	x	○	x	x	x
<i>S. epidermidis</i>	AF72	B	x	○	x	x	x
<i>S. epidermidis</i>	AF706	B	x	○	x	x	x
<i>S. epidermidis</i>	AF756	B	x	○	x	x	x
<i>S. epidermidis</i>	AF760	B	x	○	x	x	x
<i>S. epidermidis</i>	AF750	B	x	○	x	x	x
<i>S. epidermidis</i>	AF720	B	x	○	x	x	x
<i>S. epidermidis</i>	SE21	B	x	○	x	x	x
<i>S. epidermidis</i>	SE23	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE24	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE26	B	○	LFW	x	x	x
<i>S. epidermidis</i>	SE27	B	x	○	x	x	x
<i>S. epidermidis</i>	SE28	B	x	x	x	x	x
<i>S. epidermidis</i>	SE29	B	x	○	x	x	x
<i>S. epidermidis</i>	SE32	B	x	x	x	x	x
<i>S. epidermidis</i>	SE33	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE38	B	x	○	x	x	x
<i>S. epidermidis</i>	SE39	B	x	○	x	x	x
<i>S. epidermidis</i>	SE43	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE45	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE46	B	x	○	x	x	x
<i>S. epidermidis</i>	SE47	B	x	○	x	x	x
<i>S. epidermidis</i>	SE51	B	x	x	x	x	x
<i>S. epidermidis</i>	SE52	B	x	○	x	x	x
<i>S. epidermidis</i>	SE56	B	x	LFW	x	x	x
<i>S. epidermidis</i>	SE57	B	x	LFW	x	x	x
<i>S. felis</i>	CO-6	B	LFW	○	x	x	x
<i>S. felis</i>	C3	C	LFW	LFW	x	x	x
<i>S. felis</i>	C10	C	○	○	x	x	x
<i>S. felis</i>	C26	C	○	○	x	x	x
<i>S. felis</i>	C29	C	○	LFW	x	x	x
<i>S. felis</i>	C53	C	○	LFW	x	x	x
<i>S. felis</i>	C79	C	○	○	x	x	x
<i>S. felis</i>	C-8	C	○	○	x	x	x
<i>S. felis</i>	C4	C	○	LFW	x	x	x
<i>S. felis</i>	C16	C	○	○	x	x	x
<i>S. arlettae</i>	D119	D	○	LFW	x	x	x
<i>S. arlettae</i>	C128	C	LFW	○	x	x	x
<i>S. arlettae</i>	D91	D	○	LFW	x	x	x
<i>S. kloosii</i>	D187	D	LFW	○	x	x	x
<i>S. kloosii</i>	C51	C	LFW	LFW	x	x	x
<i>S. kloosii</i>	C21	C	○	○	x	x	x
<i>S. kloosii</i>	C55	C	○	○	x	x	x
<i>S. kloosii</i>	C57	C	○	LFW	x	x	x
<i>S. kloosii</i>	D77	D	LFW	LFW	x	x	x
<i>S. kloosii</i>	C18	C	○	○	x	x	x
<i>S. pettenkoferi</i>	C58	C	○	LFW	x	x	x
<i>S. pettenkoferi</i>	C28	C	○	LFW	x	x	x
<i>S. pettenkoferi</i>	C30	C	○	LFW	x	x	x
<i>S. pettenkoferi</i>	C48	C	○	LFW	x	x	x
<i>S. pettenkoferi</i>	C57	C	○	LFW	x	x	x
<i>S. schleiferi</i>	CO-13	D	○	○	x	x	x
<i>S. schleiferi</i>	D91	D	○	○	x	x	x
<i>S. schleiferi</i>	D-88	D	○	LFW	x	x	x
<i>S. schleiferi</i>	D-104	D	○	○	x	x	x
<i>S. schleiferi</i>	D84	D	○	LFW	x	x	x
<i>S. schleiferi</i>	C50	C	LFW	○	x	x	x
<i>S. schleiferi</i>	D22	D	x	○	x	x	x
<i>S. schleiferi</i>	D64	D	x	○	x	x	x

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Staphylococcus spp.	Strain	Description <sup>a</sup>	Phage <sup>b</sup>				
			S6	S25-3	S13'	80	φMR25
<i>S. schleiferi</i>	D109	D	○	○	x	x	x
<i>S. schleiferi</i>	C7	C	○	○	x	x	x
<i>S. sciuri subsp. sciuri</i>	GTC 291		○	LFW	x	x	x
<i>S. sciuri</i>	D108	D	○	○	x	x	x
<i>S. sciuri</i>	D186	D	LFW	○	x	x	x
<i>S. sciuri</i>	C62	C	○	○	x	x	x
<i>S. sciuri</i>	C67	C	○	○	x	x	x
<i>S. sciuri</i>	C71	C	x	x	x	x	x
<i>S. sciuri</i>	C124	C	LFW	LFW	x	x	x
<i>S. sciuri</i>	D-63	D	○	LFW	x	x	x
<i>S. sciuri</i>	D94	D	LFW	○	x	x	x
<i>S. sciuri</i>	C46	C	LFW	○	x	x	x
<i>S. sciuri</i>	D42	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D-1	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D-12	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D-21	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D-22	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D-28	D	LFW	○	x	x	x
<i>S. pseudintermedius</i>	D-30	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D-36	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D-76	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D-77	D	x	LFW	x	x	x
<i>S. pseudintermedius</i>	D-80	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	C-14	C	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	C-18	C	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D1	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D15	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D19	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D62	D	○	○	x	x	x
<i>S. pseudintermedius</i>	D72	D	x	LFW	x	x	x
<i>S. pseudintermedius</i>	D76	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D80	D	x	x	x	x	x
<i>S. pseudintermedius</i>	D82	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D100	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D103	C	○	○	x	x	x
<i>S. pseudintermedius</i>	C9	C	○	LFW	x	x	x
<i>S. pseudintermedius</i>	C38	D	LFW	○	x	x	x
<i>S. pseudintermedius</i>	D5	D	x	LFW	x	x	x
<i>S. pseudintermedius</i>	D7	D	x	x	x	x	x
<i>S. pseudintermedius</i>	D9	D	LFW	○	x	x	x
<i>S. pseudintermedius</i>	D13	D	LFW	○	x	x	x
<i>S. pseudintermedius</i>	D15	D	x	○	x	x	x
<i>S. pseudintermedius</i>	D56	D	○	○	x	x	x
<i>S. pseudintermedius</i>	D60	D	LFW	○	x	x	x
<i>S. pseudintermedius</i>	D61	D	x	LFW	x	x	x
<i>S. pseudintermedius</i>	D62	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D65	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D67	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D69	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	D78	D	○	LFW	x	x	x
<i>S. pseudintermedius</i>	D96	D	LFW	LFW	x	x	x
<i>S. pseudintermedius</i>	C20	C	○	○	x	x	x
<i>S. pseudintermedius</i>	C28	C	LFW	○	x	x	x

<sup>a</sup>, *S. aureus* isolated from healthy individuals is described elsewhere (Takemura-Uchiyama *et al.*, 2013), which is designated as A.

<sup>a</sup>, *S. epidermidis* isolated from healthy individuals was kindly donated from Ms. Asako Muraoka, Kochi Junior College, Kochi, Japan, which is designated as B.

<sup>a</sup>, *Staphylococcus* spp. were isolated from cats and a dogs at Miyazaki University, Miyazaki, Japan, in the present study, which are designated as C and D, respectively.

<sup>b</sup>, Plaque formation, lysis-from-without, and the lack of both activities are represented as ○, LFW, and x, respectively.