

TABLE 1. Genomic islands in six sequenced staphylococcal genomes

Inland	Genes found on island ^a	Type, location of island (predicted integration sequence ^b) for:						Allele family member(s)
		<i>S. aureus</i>				<i>S. epidermidis</i>		
		COL	Mu50	N315	MW2	RP62A	ATCC 12228	
vSa1	Enterotoxin genes (<i>seb</i> , <i>tsst</i> , <i>ear</i>)	903332-919283 (A)	NP	NP	NP	NP	NP	SaPI1, SaPI3
vSa2	<i>sec</i> , <i>tsst</i>	NP	NP	NP	NP	NP	NP	SaPIbov
vSa3	Type I, <i>fluD</i> ; type II, <i>sel2</i> , <i>sec4</i> , <i>ear</i>	NP	I, 868373-882872 (B)	NP	II, 839358-853808 (B)	NP	NP	SaPI3
vSa4	Type I, <i>sel</i> , <i>sec3</i> , <i>tsst</i> ; type II, four unknown ORFs	II, 2072899-2076041 (C)	I, 2148912-2133235 (D)	I, 2056679-2072358 (D)	II, 2097809-2100950 (C)	NP	NP	SaPI2
vSaa	Type I, <i>set6-15</i> , <i>lpl1-9</i> ; type II, <i>set16-26</i> , <i>lpl10-14</i> , type III, <i>set1-5</i> , <i>lpl2, 7, 8, 11, 13</i>	III, 465424-489723	I, 461919-491326	I, 436162-466813	II, 416307-452099	NP	NP	
vSaβ	Type I, <i>splA-F</i> , <i>lukDE</i> , <i>ear</i> , epidermin gene cluster; type II, <i>splA-F</i> , <i>lukDE</i> , <i>ear</i> , <i>seg</i> , <i>sen</i> , <i>sei</i> , <i>sem</i> , <i>seo</i> , epidermin gene cluster	I, 1902466-1938731	II, 1932523-1961464	I, 1854608-1881615	I, 1890800-1922552	NP	NP	
vSay	<i>set</i> , <i>eta</i> , <i>psmβ</i>	1173206-1193358	1208620-1230219	1132235-1153775	1133469-1153549	NP	NP	
vSeγ	<i>psmβ</i>					734975-737635	840908-843572	
SCCmec	<i>mecA</i> , <i>ermA</i> , <i>bleO</i> , <i>addD</i>	I, 68085-34173 (E)	II, 87085-34158 (E)	II, 87119-34153 (E)	IV, 58278-34150 (E)	II, 2536574-2584194 (F)	NP	Types I, II, III, IVa, IVb
SSC _{pbp4}	<i>pbp4</i> , <i>merT</i> , <i>merB</i> , <i>merA</i> , <i>tagF</i>	NP	NP	NP	NP	NP	32031-99960 (G)	
φSa1	72 ORFs	NP	917453-962005 (H)	NP	NP	NP	NP	φ11, φETA
φSa2	<i>lukS-PV</i> , <i>lukF-PV</i>	NP	NP	NP	1575042-1529123 (I)	NP	NP	φSLT
φSa3	<i>sak</i> , <i>sea</i> , <i>sep</i> , <i>seg2</i> , <i>sek2</i>	NP	2126304-2083238 (J)	2049591-2005321 (J)	2088820-2046205 (J)	NP	NP	φ42
φCOL	Integrated in <i>geh</i>	354674-398267 (K)	NP	NP	NP	NP	NP	φL-54
φSPβ	Integrated in <i>yeoE</i> , LPXTG surface protein gene	NP	NP	NP	NP	1567637-1694334 (L)	NP	
Tn5801	<i>tetM</i> , two unknown ORFs	NP	I, 436002-461791 (M)	NP	II, 415784-417798 (M)	NP	NP	
vSe1	Type I, <i>cadCD</i> ; type II, one unknown ORF	NP	NP	NP	NP	I, 2250348-2267496 (N)	II, 2255537-2259992 (N)	
vSe2	<i>strA</i> , two LPXTG surface protein genes	NP	NP	NP	NP	NP	1558081-1519667 (O)	

^a A, TTATTCCTGCTAAATA; B, TCCGCGCTCTCAT; C, GTTTTACATCATTCC[C]TGGCAT; D, GTTTTACATCATTCCCGGCAT; E, TTATGATA[CA]GC[C]TCT; F, TTATGATA[TA]GCTTCT; G, TCATTTATGATATGCTTCT; H, TCGAAATGGAAGGTAGTATTGGATAGCTTTAAAG[CA][CG]CGTGTGTAAGCCATCTTGACTCCGGAAATGG[CG]TAT; I, AAATAAACATAT[CA]TCATAATGTGATGGT; J, TGTATCCAAACTGG; K, ATCATAACAAGGATGGGAT; L, CAATGCATAAAA; M, GAGTGGGAATA; N, CTAAATATTTTC; O, CGGAGAGTGAGGGAT. NP, not present.

^b Gene symbols: sortase, *set*; cadmium efflux, *cadCD*; lipase, *geh*; staphylococcal kinase, *sak*; β-lactamase, *ear*; ferric hydroxamate uptake, *fluD*; leukotoxin, *lukDE*; tandem lipoprotein, *lpl*; PSM beta subunit, *psmβ*; staphylococcal enterotoxins, *sec3*, *sec4*, *seg*, *seg2*, *sea*, *sek2*, *sel*, *sel2*, *sem*, *sen*, *sei*, *sem*, *seo*, *sep*; serine protease, *splA-F*; toxic shock syndrome toxin, *tsst*; panton-valentine leukocidin components S and F, *lukS-PV*, *lukF-PV*; methicillin resistance, *mecA*; penicillin binding protein 4, *pbp4*; *ermA*, *bleO*, *addD*, *tetM*, *yeoE*; alkylmercury lyase, *merB*; mercury transport protein, *merT*; mercuric reductase, *merA*; teichoic acid biosynthesis protein F, *tagF*.