

Supplementary Materials: Comparative Genomics and Identification of an Enterotoxin-Bearing Pathogenicity Island, SEPI-1/SECI-1, in *Staphylococcus epidermidis* Pathogenic Strains

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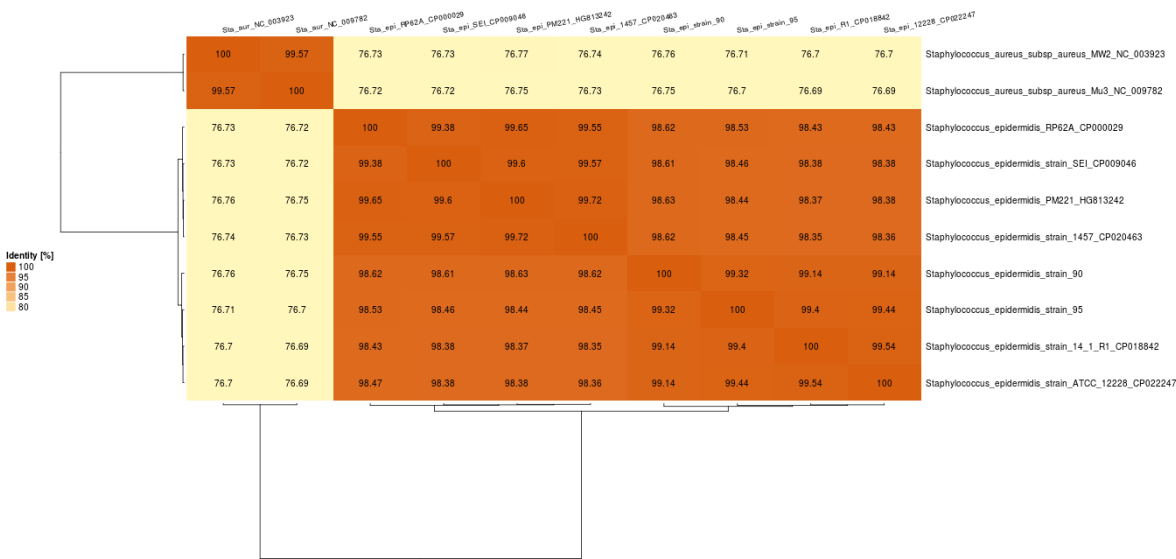


Figure S1. Mean nucleic acid identity between whole genome sequences of SE90 and SE95 from this study, six *S. epidermidis*, and two *S. aureus* sequences available from NCBI genome server (EDGAR 2.2 software platform).

Table S1: Clusters of Orthologous Groups (COG) of proteins from *Staphylococcus epidermidis* complete published genomes, and comparison with *Staphylococcus aureus* MU3 and MW2 (webMGA software platform with an e-value cutoff for prediction =0.001).

COG description	CO G class	S. <i>epidermidis</i> SE90	S. <i>epidermidis</i> SE95	S. <i>epidermidis</i> ATCC 12228	S. <i>aureus</i> MU3	S. <i>aureus</i> MW2	S. <i>epidermidis</i> RP62A	<i>S. epidermidis</i> 14-1-R1	<i>S. epidermidis</i> 1457	<i>S. epidermidis</i> SEI	S. <i>epidermidis</i> PM221
Chromatin structure and dynamics	B				1	1					
Energy production and conversion	C	113	113	116	116	55	116	67	67	113	55
Cell cycle control, cell division, chromosome partitioning	D	24	21	24	31	17	24	9	8	23	13
Amino acid transport and metabolism	E	200	196	202	233	114	200	104	109	208	113
Nucleotide transport and metabolism	F	70	67	70	73	50	76	24	25	71	39
Carbohydrate transport and metabolism	G	136	137	137	186	92	142	88	78	140	61
Coenzyme transport and metabolism	H	105	103	106	107	36	109	68	67	105	39
Lipid transport and metabolism	I	63	63	63	71	38	65	29	30	61	32
Translation, ribosomal structure and biogenesis	J	150	146	151	154	70	156	79	82	152	59
Transcription	K	126	118	129	165	78	132	71	71	128	60
Replication, recombination and repair	L	118	123	135	164	66	169	67	68	146	69
Cell wall/membrane/envelope biogenesis	M	97	98	101	128	68	102	57	56	102	47
Cell motility	N	7	7	8	7	2	7	5	5	7	3
Posttranslational modification, protein turnover, chaperones	O	69	67	69	75	36	72	36	36	70	31
Inorganic ion transport and metabolism	P	135	132	138	158	75	142	74	79	140	60
Secondary metabolites biosynthesis, transport and catabolism	Q	30	31	29	38	24	31	15	16	30	20
General function prediction only	R	269	269	279	292	146	281	148	142	278	132
Function unknown	S	206	211	222	237	113	219	126	121	210	93
Signal transduction mechanisms	T	57	60	58	70	33	67	34	38	61	30
Intracellular trafficking, secretion, and vesicular transport	U	29	28	29	31	12	28	16	14	29	13
Defense mechanisms	V	31	36	33	46	27	36	20	21	31	16
Cytoskeleton	Z			1				1			