

Additional file 3. Ratios of nonsynonymous vs synonymous of orthologs with SNPs pairs of Virulence factors.

Virulence factor	<i>S. epidermidis</i> RP62A	name	function	Compare to <i>S. epidermidis</i> ATCC12228 ATCC12228		n	s	dn	ds	dn/ds	p value
Esterase	SERP1941	-	esterase, putative	identical	SE1929	1	4	0.0014	0.0144	0.0886	0.9618
	SERP2109	-	esterase, putative	SNP	SE2095						
Serine protease	SERP1292	-	serine protease HtrA, putative	SNP	SE1405	2	1	0.0023	0.0028	0.4510	0.5616
	SERP2401	-	serine protease	specific							
Serine V8 protease	SERP1397	sspA	glutamyl endopeptidase precursor SspA	SNP	SE1543	1	0	0.0016	0.0000	1.0000	0.1587
Cysteine protease	SERP2390	sspB	cysteine protease precursor SspB	identical	SE0184	15	21	0.0102	0.0369	0.2166	0.9992
	SERP2391	sspC	SspC protein	indel	SE0183						
Lipase	SERP2336	-	lipase, putative	SNP	SE0245	6	20	0.0038	0.0336	0.1016	0.9999
	SERP0018	-	lipase, putative	SNP	SE2403		1	0	0.0007	0.0000	1.0000
	SERP2297	geh-1	lipase	SNP	SE0281	16.5	16.5	0.0120	0.0310	0.2791	0.9900
	SERP2388	geh-2	lipase	SNP	SE0185						
Lipase/esterase	SERP0309	-	lipase/esterase, putative	identical	SE0424	1	1	0.0009	0.0023	0.2813	0.7146
	SERP2252	sepA	extracellular elastase precursor	SNP	SE2219						
Beta hemolysin	SERP2544	hlb	beta-hemolysin	identical	SE0008						
Delta hemolysin	SERP1489	hld	delta-hemolysin	identical	SE1634						
Hemolysin III	SERP1769	-	hemolysin III, putative	identical	SE1760						
Hemolysin	SERP2258	-	hemolysin, putative	indel	SE2226						
Thermonuclease	SERP0891	-	thermonuclease precursor family protein	indel	SE1004						
nuclease	SERP1570	-	Staphylococcal nuclease family protein	specific							
Zinc metalloprotease	SERP0829	-	membrane-associated zinc metalloprotease, putative	identical	SE0938						
Clp protease, procolytic subunit	SERP0436	clpP	ATP-dependent Clp protease, proteolytic subunit ClpP	identical	SE0551						
Clp protease, ATP binding subunit	SERP0564	clpB	ATP-dependent Clp protease, ATP-binding subunit ClpB	SNP	SE0674	2	0	0.0011	0.0000	1.0000	0.0846
Clp protease, ATP binding subunit	SERP1238	clpX	ATP-dependent Clp protease, ATP-binding subunit ClpX	identical	SE1349						
Clp protease, ATP binding subunit	SERP0165	clpC	ATP-dependent Clp protease, ATP-binding subunit ClpC	identical	SE0287						

Phenol-soluble modulin	SERP0736	-	phenol soluble modulin beta 1	indel	SE0846						
	SERP0737	-	phenol soluble modulin beta 1	SNP	SE0847	2	0	0.0216	0.0000	1.0000	0.0777
	SERP0738	-	phenol soluble modulin beta 1	paralog							
	SERP0739	-	phenol soluble modulin beta 1	SNP	SE0849	0	2	0.0000	0.0553	0.0000	0.9161
	SERP2397	-	phenol soluble modulin beta 1	identical	SE0177						
	SERP2400	-	phenol soluble modulin beta 1	identical	SE0174						
	SERP0083	-	phenol soluble modulin alpha	specific							
	SERP1489	hld	delta-hemolysin	identical	SE1634						