

Supplementary Information

Table S1. Screening of marine bacterial material, extracts and culture supernatants for interference with *S. aureus* virulence gene expression. Down-Regulation of *hla* and combined down-regulation of *hla* with up-regulation of *spa* is listed in the table. Data on genus/species identification and antimicrobial activity are from [1].

Isolate No.	Genus	<i>hla</i> interference (<i>hla</i> down)			<i>hla/spa</i> interference (<i>hla</i> down, <i>spa</i> up)			Antimicrobial activity against <i>S. aureus</i>
		Supernatant	Extract	Colony mass	Supernatant	Extract	Colony mass	
S0788	<i>Vibrio</i> sp. (<i>coralliilyticus</i>)	-	-	+	-	-	-	
S0842	<i>Vibrio</i> sp.	-	-	+	-	-	-	-
S1072	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	-	-	-
S1078	<i>Vibrio</i> sp. (<i>harveyi</i>)	-	-	+	-	-	-	-
S1124	<i>Vibrio</i> sp.	-	+	+	-	-	-	++
S1162	<i>Vibrio</i> sp. (<i>fluvialis</i>)	-	+	-	-	-	-	-
S1175	<i>Vibrio</i> sp.	-	-	+	-	-	-	++
S1346	<i>Vibrio</i> sp. (<i>neptunius</i>)	-	+	+	-	-	-	++
S1348	<i>Vibrio</i> sp. (<i>parahaemolyticus</i>)	-	-	-	-	-	-	-
S1368	<i>Vibrio</i> sp. (<i>harveyi</i>)	-	-	-	-	-	-	+
S1396	<i>Vibrio</i> sp.	-	-	-	-	-	-	++
S1614	<i>Vibrio</i> sp. (<i>coralliilyticus</i>)	-	+	+	-	+	-	-
S2052	<i>Vibrio</i> sp.	+	+	+	-	-	-	+++
S2056	<i>Vibrio</i> sp. (<i>coralliilyticus</i>)	-	-	+	-	-	-	++
S2150	<i>Vibrio</i> sp.	-	-	+	-	-	-	++
S2156	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	+	+	-
S2320	<i>Vibrio</i> sp.	-	-	+	-	-	-	+
S2322	<i>Vibrio</i> sp.	-	-	-	-	-	-	-
S2394	<i>Vibrio</i> sp.	-	-	+	-	-	-	-
S2407	<i>Vibrio</i> sp.	-	+	+	-	+	-	+
S2536	<i>Vibrio</i> sp. (<i>harveyi</i>)	-	-	+	-	-	-	+
S2537	<i>Vibrio</i> sp. (<i>penaeicida</i>)	-	+	+	-	+	+	+
S2600	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	+	+	+++

Table S1. Cont.

S2601	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	+	+	-
S2603	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	+	+	++
S2604	<i>Vibrio</i> sp. (<i>nigripulchritudo</i>)	-	+	+	-	+	+	-
S2687	<i>Vibrio</i> sp. (<i>parahaemolyticus</i>)	-	-	+	-	-	+	+
S2718	<i>Vibrio</i> sp.	-	-	+	-	-	+	++
S2726	<i>Vibrio</i> sp.	-	-	+	-	-	-	+
S3926	<i>Vibrio</i> sp. (<i>neptunius</i>)	-	-	+	-	-	-	+++
S4051	<i>Vibrio</i> sp.	-	-	+	-	-	-	+++
S4053	<i>Vibrio</i> sp.	-	-	+	-	-	-	++
S4073	<i>Vibrio</i> sp.	-	+	-	-	+	-	+++
S4074	<i>Vibrio</i> sp. (<i>chagasii</i>)	-	-	+	-	-	-	+
S4077	<i>Vibrio</i> sp.	-	-	+	-	-	-	++
S4202	<i>Vibrio</i> sp.	-	-	-	-	-	-	-
S4225	<i>Vibrio</i> sp.	-	+	+	-	-	-	+
S1358	<i>Ruegeria</i> sp. (<i>mobilis/pelagia</i>)	-	-	-	-	-	-	+++
S1611	<i>Ruegeria</i> sp. (<i>mobilis/pelagia</i>)	-	-	-	-	-	-	+++
S2145	<i>Ruegeria</i> sp. (<i>mobilis/pelagia</i>)	-	-	-	-	-	-	+
S1942	<i>Ruegeria</i> sp. (<i>mobilis/pelagia</i>)	-	-	-	-	-	-	+++
S2405	<i>Ruegeria</i> sp. (<i>mobilis/pelagia</i>)	-	-	-	-	-	-	++
S0185	<i>Pseudoalteromonas marina</i>	-	-	+	-	-	-	-
S0201	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	-	-
S0327	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	-
S0410	<i>Pseudoalteromonas marina</i>	-	-	+	-	-	-	-
S0554	<i>Pseudoalteromonas marina</i>	-	+	+	-	-	-	-
S0577	<i>Glaciecola</i> sp. (<i>Pseudoalteromonas</i> sp.)	-	+	+	-	-	-	-
S1189	<i>Pseudoalteromonas</i> sp. (<i>phenolica</i>)	-	-	+	-	-	+	+++
S1608	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-
S1609	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-

Table S1. Cont.

S1612	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	-	-
S1650	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-
S1690	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-
S1845	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S1925	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S1943	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	+++
S1946	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	+++
S2049	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S2050	<i>Pseudoalteromonas piscicida</i>	-	+	+	-	-	-	++
S2053	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S2231	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	+	+
S2233	<i>Pseudoalteromonas</i> sp.	-	+	-	-	-	-	+
S2471	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	++
S2472	<i>Pseudoalteromonas rubra</i>	-	-	-	-	-	-	-
S2599	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	++
S2607	<i>Pseudoalteromonas luteoviolacea</i>	-	-	-	-	-	-	+++
S2676	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	++
S2717	<i>Pseudoalteromonas ruthenica</i>	-	-	+	-	-	+	+
S2893	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	-
S2899	<i>Pseudoalteromonas ruthenica</i>	-	+	+	-	-	+	++++
S3137	<i>Pseudoalteromonas ruthenica</i>	-	+	+	-	-	+	++++
S3260	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	-
S3431	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	-	-
S3655	<i>Pseudoalteromonas spongiae</i>	-	+	+	-	-	-	-
S3665	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	+++
S3673	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	++
S3788	<i>Pseudoalteromonas</i> sp.	-	-	-	-	-	-	-
S4052	<i>Pseudoalteromonas</i> sp. (<i>phenolica</i>)	-	-	+	-	-	+	+++
S4054	<i>Pseudoalteromonas luteoviolacea</i>	-	-	+	-	-	+	++++

Table S1. Cont.

S4055	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	+	+++
S4059	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	+++
S4382	<i>Pseudoalteromonas ruthenica</i>	-	-	+	-	-	-	++++
S1612	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	-	-
S1650	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-
S1690	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	-	-
S1845	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S1925	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S1943	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	+++
S1946	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	+++
S2049	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S2050	<i>Pseudoalteromonas piscicida</i>	-	+	+	-	-	-	++
S2053	<i>Pseudoalteromonas piscicida</i>	-	-	+	-	-	-	++
S2231	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	+	+
S2233	<i>Pseudoalteromonas</i> sp.	-	+	-	-	-	-	+
S2471	<i>Pseudoalteromonas rubra</i>	-	+	+	-	-	+	++
S2472	<i>Pseudoalteromonas rubra</i>	-	-	-	-	-	-	-
S2599	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	++
S2607	<i>Pseudoalteromonas luteoviolacea</i>	-	-	-	-	-	-	+++
S2676	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	++
S2717	<i>Pseudoalteromonas ruthenica</i>	-	-	+	-	-	+	+
S2893	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	-
S2899	<i>Pseudoalteromonas ruthenica</i>	-	+	+	-	-	+	++++
S3137	<i>Pseudoalteromonas ruthenica</i>	-	+	+	-	-	+	++++
S3260	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	-
S3431	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	-	-
S3655	<i>Pseudoalteromonas spongiae</i>	-	+	+	-	-	-	-
S3665	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	+++
S3673	<i>Pseudoalteromonas</i> sp.	-	-	+	-	-	+	++

Table S1. Cont.

S3788	<i>Pseudoalteromonas</i> sp.	-	-	-	-	-	-	-
S4052	<i>Pseudoalteromonas</i> sp. (<i>phenolica</i>)	-	-	+	-	-	+	+++
S4054	<i>Pseudoalteromonas luteoviolacea</i>	-	-	+	-	-	+	++++
S4055	<i>Pseudoalteromonas</i> sp.	-	+	+	-	-	+	+++
S4059	<i>Pseudoalteromonas rubra</i>	-	-	+	-	-	+	+++
S4382	<i>Pseudoalteromonas ruthenica</i>	-	-	+	-	-	-	++++

References

1. Gram, L.; Melchiorson, J.; Bruhn, J.B. Antibacterial activity of marine culturable bacteria collected from a global sampling of ocean surface waters and surface swabs of marine organisms. *Mar. Biotechnol.* **2010**, *12*, 439–451.

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