SUPPLEMENTAL INFORMATION 2

Pathogenicity and infection cycle of *Vibrio owensii* in larviculture of ornate spiny lobster (*Panulirus ornatus*)

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SUPPLEMENTAL RESULTS

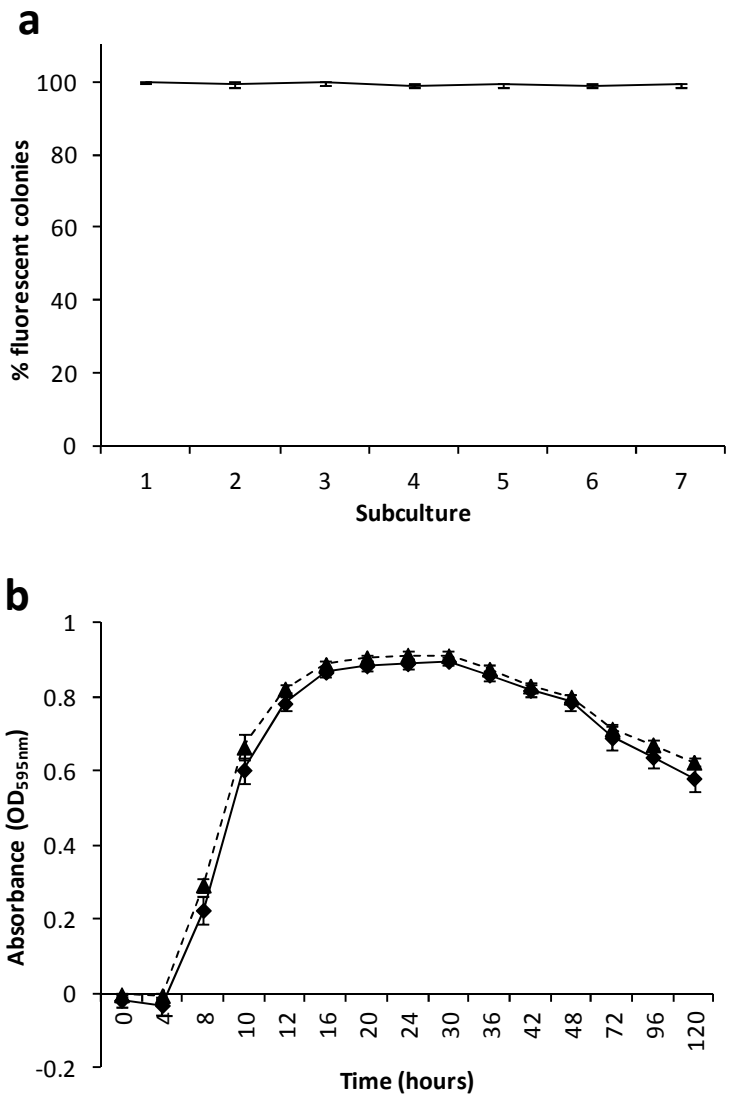

FIG. S1. Stability of gfp expression and effects of transconjugation on growth of *V. owensii* DY05. (a) Expression of gfp by DY05[gfp] following continuous subculture for 7 days in nonselective medium (MB). (b) Microgrowth profiles of wild type *V. owensii* DY05 (▲) and DY05[gfp] (♦) over 120 h. Shown are means ± SD.

TABLE S1. Phylogenetic identity of isolates recovered from stage 3 *P. ornatus* phyllosoma and *Artemia* following vectored challenge

Isolate	Treatment and time (h) of sampling	Source	Gene	Nearest taxonomic relative (accession number)	Sequence identity (%)
A01	*V. owensii* DY05 t = 2	Live *Artemia*	16S rRNA	*V. owensii* DY05 (GU018180)	1420/1421 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259)	860/860 (100%)
A06	Control t=0	Live phyllosoma	16S rRNA	*V. parahaemolyticus* (GU726844)	1400/1402 (99%)
A07	Control t=0	Live phyllosoma	16S rRNA	*V. harveyi* (DQ146937)	1414/1414 (100%)
A08	Control t=0	Live phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1408/1422 (99%)
A09	Control t=0	Live phyllosoma	16S rRNA	*V. parahaemolyticus* (EU660326)	1427/1430 (99%)
A10	Control t=0	Live phyllosoma	16S rRNA	*V. harveyi* (DQ146937)	1422/1423 (99%)
A39	Control t =48	Dead phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1414/1427 (99%)
A40	Control t =48	Dead phyllosoma	16S rRNA	*V. harveyi* (AM422800)	1414/1418 (99%)
A41	Control t =48	Dead phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1406/1420 (99%)
A42	Control t =48	Dead phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1404/1418 (99%)
A43	Control t =48	Dead phyllosoma	16S rRNA	*V. parahaemolyticus* (EU660326)	1422/1424 (99%)
A44	Control t =48	Dead phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1409/1424 (99%)
A37	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. neptunis* (NR025476)	1395/1408 (99%)
A45	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. owensii* DY05 (GU018180)	1420/1421 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259	860/860 (100%)
A46	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. owensii* DY05 (GU018180)	1420/1421 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259)	860/860 (100%)
A47	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. owensii* DY05 (GU018180)	1420/1421 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259)	860/860 (100%)
A49	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. owensii* DY05 (GU018180)	1420/1421 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259)	860/860 (100%)
A50	*V. owensii* DY05 t = 48	Dead phyllosoma	16S rRNA	*V. owensii* DY05 (GU018180)	1390/1391 (99%)[a]
			topA	*V. owensii* DY05(GU111255)	625/625 (100%)
			mreB	*V. owensii* DY05 (GU111259)	860/860 (100%)

[a] One bp mismatch due to an uncertain nucleotide position ‘n’ in the BLAST database sequence.