

Supplementary Materials

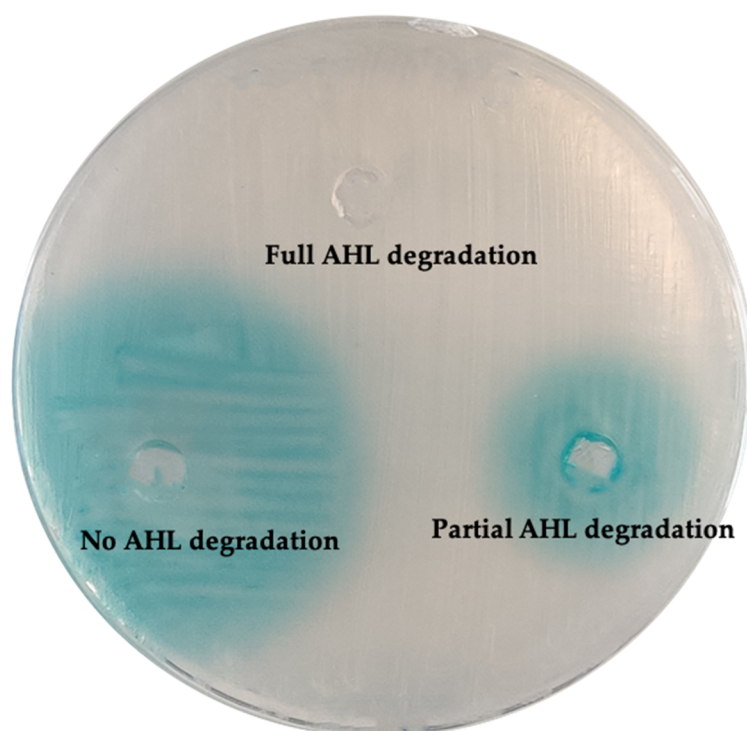


Figure S1. Diffusion agar-plate assay to detect AHLs using the biosensor *Agrobacterium tumefaciens* NTL4 (pZLR4). The size of halo diameter indicate AHL degradation activity.

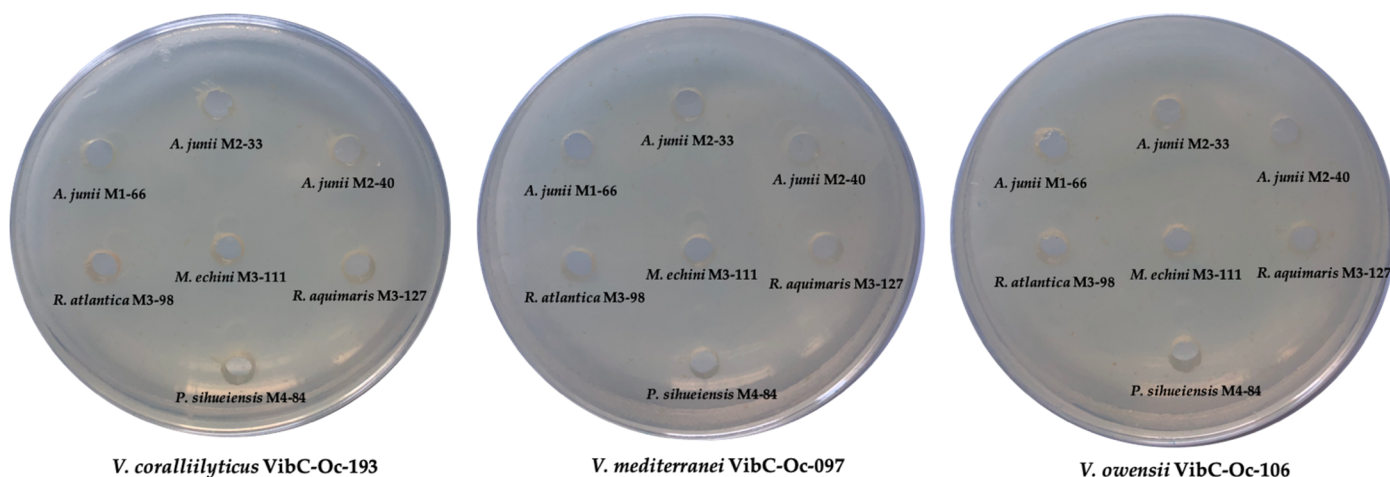


Figure S2. Determination of remaining AHLs after 24 h incubation of cocultures with AHL-degrading strains and *Vibrio* spp. using diffusion agar-plate assay with *Agrobacterium tumefaciens* NTL4 (pZLR4).

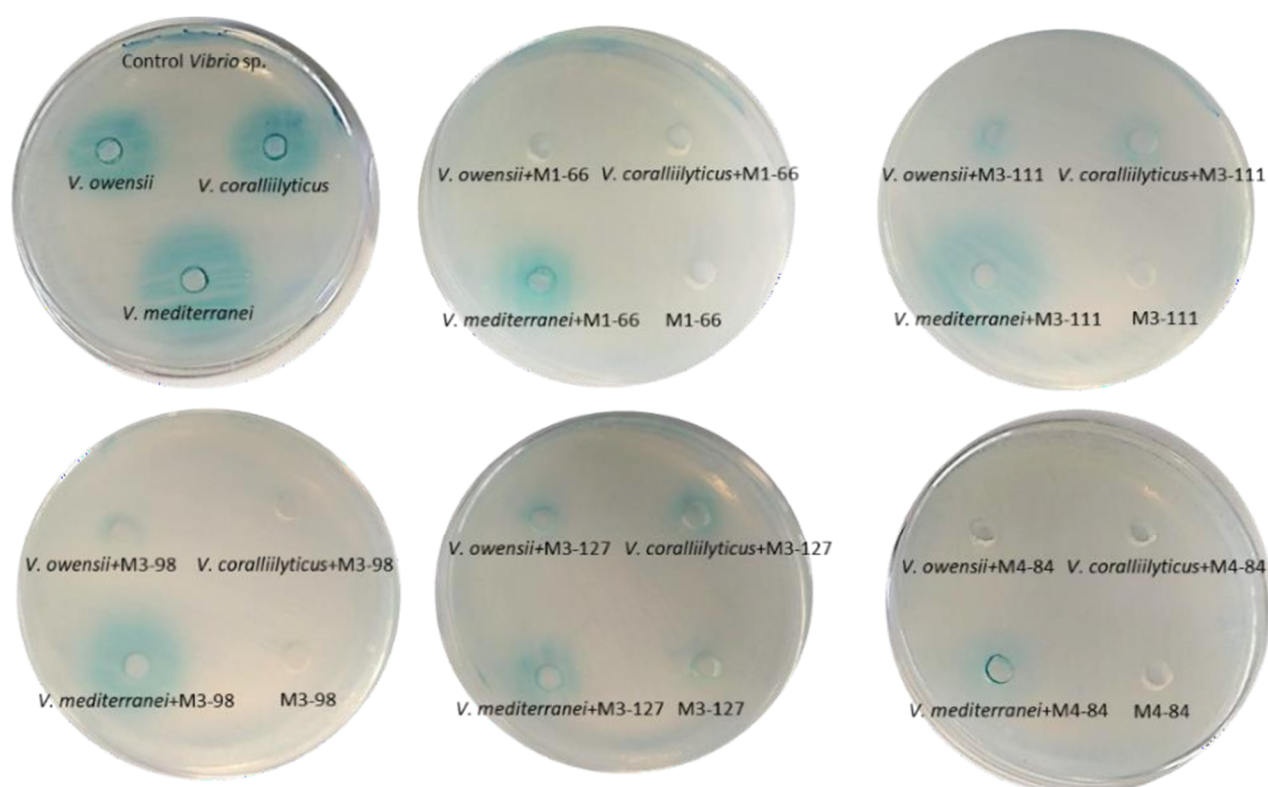


Figure S3. Detection of growth inhibition of *Vibrio* spp. by the AHL-degrading strains. Growth inhibition was detected by loading 100- μ L aliquots of cell-free supernatant of each AHL-degrading culture strain in wells made on the surface AM medium plates. An overlay of the strains *V. coralliilyticus* VibC-Oc-193, *V. mediterranei* VibC-Oc-097 and *V. owensii* VibC-Oc-106 was previously placed, respectively.

Table S1. Phenotypes of *V. coralliilyticus* VibC-Oc-193 after co-culturing with AHL-degrading strains.

	Amylase	Hemolysin	swarming	swimming	DNAase	Caseinase	Tween 20	Alkaline phosphatase
VibC-Oc-193	++	++	++	+++	++	++	++	++
<i>Acinetobacter junii</i> M1-66	-	-	-	-	-	-	++	+
<i>A. junii</i> M1-66 + VibC-Oc-193	+	-	++	+++	++	++	++	++
<i>A. junii</i> M2-33	+	-	++	++	++	++	++	-
<i>A. junii</i> M2-33 + VibC-Oc-193	+	+	++	+++	++	++	++	++
<i>A. junii</i> M2-40	+	-	-	-	+	-	++	+
<i>A. junii</i> M2-40 + VibC-Oc-193	++	++	++	+++	+	++	++	++
<i>Ruegeria atlantica</i> M3-98	+	-	-	-	-	-	-	+
<i>R. atlantica</i> M3-98 + VibC-Oc-193	++	+	++	+++	++	++	++	++
<i>Microbulbifer echini</i> M3-111	+	++	-	++	++	+	++	++

<i>M. echini</i> M3-111 + VibC-Oc-193	+	++	-	++	++	++	++	++
<i>Rheinheimera aquimaris</i> M3-127	++	-	++	++	++	++	++	+
<i>R. aquimaris</i> M3-127 + VibC-Oc-193	++	+	++	+++	++	++	++	++
<i>Pseudomonas sihuiensis</i> M4-84	-	-	++	++	-	-	++	+
<i>P. sihuiensis</i> M4-84 + VibC-Oc-193	-	-	++	+++	+	++	++	+

“+++ and ++” strong activity, “+” medium activity and “-” no activity