

Supplementary Table S1. Primers used in this study

Primer name (purpose)	5'–3' sequence*	Reference gene
<b>Mutant allele construction</b>		
Qrr1-A	GG <u>ACTAGT</u> TCTAAGGTGGCAGAAAGCTCG	<i>qrr1</i>
Qrr1-B	TTGCATAAAATTAAGTGTTACAAATAAC	<i>qrr1</i>
Qrr1-C	TTAATTTTATGCAAAAAGGGCTATTAA	<i>qrr1</i>
Qrr1-D	CTCGAGCTCGCCGTATCTTCCACCATC	<i>qrr1</i>
Qrr2-A	GG <u>ACTAGT</u> TACAGCTAAGTATCGGTT	<i>qrr2</i>
Qrr2-B	TAAGCGCTATAAAACATTTACATAGGCCAA	<i>qrr2</i>
Qrr2-C	GTTTTATAAGCGCTTAGTTGCTATTGTTTCC	<i>qrr2</i>
Qrr2-D	CTCGAGCTCTAATAGATATATGGTGCTGAT	<i>qrr2</i>
Qrr3-A	GG <u>ACTAGT</u> CGATACGGATCATCCTTATGG	<i>qrr3</i>
Qrr3-B	GCAGACCTTTTTTAGCTATATATAAGCCAA	<i>qrr3</i>
Qrr3-C	CTAAAAAAGGTCTGCCTTTTTAGCTATGCA	<i>qrr3</i>
Qrr3-D	CTCGAGCTCAGTGTATTTGCCGGAAGTATATAA	<i>qrr3</i>
Qrr4-A	GG <u>ACTAGT</u> AGCCAGAATTTGATAATGTG	<i>qrr4</i>
Qrr4-B	ATTGGCTATTAATAAGTGCTTTAAACTGCCAA	<i>qrr4</i>
Qrr4-C	CACTTATTAATAGCCAATCATACTTTTTGTGAT	<i>qrr4</i>
Qrr4-D	CTCGAGCTCGCTCTTATTCCAAGACATA	<i>qrr4</i>
VanO-H	CTCGAGCTCATCTTGTTATCCACG	<i>vanO</i>
VanO-J	GG <u>ACTAGT</u> TGCAAAATGCGAACC	<i>vanO</i>
VanO-D56-2	AGCAATATGAGGTCCGGCTCTCGG	<i>vanO</i>
VanO-D56A-3	GACCTCATATTGCTG <u>GCT</u> CTTCGATTACCC	<i>vanO</i>
VanO-D56E-3	GACCTCATATTGCTG <u>GAA</u> CTTCGATTACCC	<i>vanO</i>
<b><i>gfp</i> reporter gene fusions</b>		
qrr2gfpS	GGT <u>GAGCT</u> CTAACAGTACAAATGG	
qrr2gfpX	TGCTCTAGAAATATAGTTATTGCAG	<i>qrr2</i>
qrr3gfpS	GGT <u>GAGCT</u> CTCCCTTTTAAAAACG	<i>qrr2</i>
qrr3gfpX	TGCTCTAGAAATAGTATTATGCAT	<i>qrr3</i>
qrr4gfpS	GGT <u>GAGCT</u> CCCAGTCATTTATGAG	<i>qrr3</i>
qrr4gfpX	TGCTCTAGACTTACTATATAGCAG	<i>qrr4</i>
<b>qRT-PCR</b>		
vanT-left	CCACGCAGATATTGCTGAA	
vanT-right	CTTTCGCATGCAAATCAAGA	<i>vanT</i>
16SrRNA-left	CATGCCGCGTGTATGAAGAA	<i>vanT</i>
16SrRNA-right	CGTCAAATGATGCTGCTATTAACAA	<i>16S rRNA</i>
<b>Northern analyses</b>		<i>16S rRNA</i>

Weber, B., Lindell, K., Elqaidi, S., Hjerde, E., Willassen, N.-P. & Milton, D. L. (2011). The phosphotransferase VanU represses expression of four *qrr* genes antagonizing VanO-mediated quorum-sensing regulation in *Vibrio anguillarum*. *Microbiology* **157**, 3324–3339.

VanT-1	CCACGCAGATATTGCTG	<i>vanT</i>
VanT-13	ACGTTCAATGGCTTTGAT	<i>vanT</i>
27F	AGAGTTTGATCATGGCTCAG	<i>16S rRNA</i>
1492R	TACGGYTACCTTGTTACGACTT	<i>16S rRNA</i>
Qrr1-RT-FW	CTTAGGGGTCACCTAGC	<i>qrr1</i>
Qrr1-RT-REV	AAAGGTCTATTGGCTGTTATTTGT	<i>qrr1</i>
Qrr2-1	CTATGTAAATTGTGAACA	<i>qrr2</i>
Qrr2-3	CGACCCCTTCTAAGCCGA	<i>qrr2</i>
Qrr3-5	TCATTAGACGAGCGAGGA	<i>qrr3</i>
Qrr3-6	AATGCGATGCATAGCTAA	<i>qrr3</i>
Qrr4-	CTGCTTATGAGAAATGTGC	<i>qrr4</i>
Qrr4-4	TGACCCCTTCTAAGCCGAG	<i>qrr4</i>
<b>Protein purification</b>		
EmpA- <i>Nco</i> I	GCTA <b>CCATGG</b> CAGAGGCGACGGGT	<i>empA</i>
EmpA-Acc651	GCTA <b>GGTACCT</b> TAATCCAGTCTTAACGT	<i>empA</i>

\*Underlined sequences indicate restriction endonuclease sites, bold letters indicate the ATG start codon, and bold, italic letters indicate an amino acid exchange.