

Supplementary Table 1. Nucleotide and amino acid changes in *luxR*/LuxR and *lasR*/LasR mutants

<i>luxR</i> plasmid	<i>luxR</i> gene base substitution	LuxR protein amino acid substitution
Parent (2nd generation C8HSL-responder)		
pLuxR-G2E	A97→G	Thr33→Ala
	T162→A	Ser116→Ala
	T346→G	Met135→Ile
	G405→A	
Specificity mutant from selection		
pLuxR-G2E-R67M	A97→G	Thr33→Ala
	T162→A	Arg67→Met
	G200→T	Ser116→Ala
	T346→G	Met135→Ile
	G405→A	
	T498→C	
	T510→C	
R67M mutation in wild-type LuxR		
pLuxR-R67M	G200→T	Arg67→Met
R61M mutation in wild-type LasR		
pLasR-R61M	GCT181→ATG	Arg61→Met