

Supporting Information

Nadell and Bassler 10.1073/pnas.1111147108

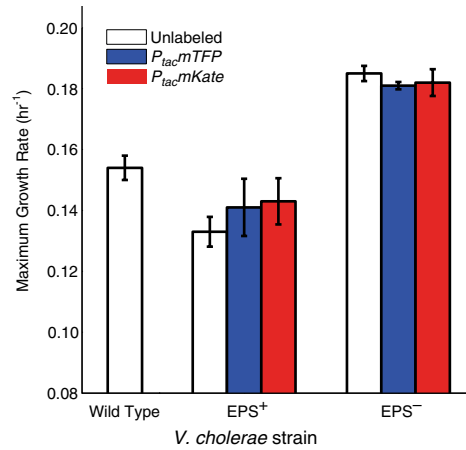


Fig. S1. Maximum growth rates of experimental strains and wild-type *Vibrio cholerae* at 37 °C. Maximum growth rates were measured by calculating the maximum slopes of replicate growth curves performed with shaking at 37 °C. The maximum growth rate of EPS⁺ cells is 25% lower than that of EPS⁻ cells. The maximum growth rates of the fluorescent strains are not significantly different from those of their parental counterparts. Error bars denote SEM ($n = 3$).

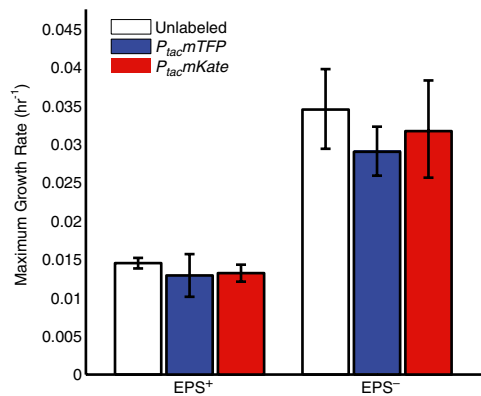


Fig. S2. Maximum growth rates of experimental strains and wild-type *Vibrio cholerae* at room temperature. Maximum growth rates were measured by calculating the maximum slopes of replicate growth curves performed with shaking at room temperature. The maximum growth rate of EPS⁺ cells is 40–50% lower than that of EPS⁻ cells. The maximum growth rates of the fluorescent strains are not significantly different from those of their parental counterparts. Error bars denote SEM ($n = 3$).

Table S1. Strains and plasmids used in this study

Strain/plasmid	Relevant features	Source/reference
<i>Vibrio cholerae</i> strains		
C6706str2	El Tor wild type	1
MM194	C6706str2 $\Delta hapR$	2, 3
CN001	C6706str2 $\Delta hapR \Delta flaA$ (EPS ⁺)	This study
CN002	C6706str2 $\Delta hapR \Delta flaA \Delta vpsL$ (EPS ⁻)	This study
CN003	CN001 <i>lacZ</i> : $P_{tac}mTFP1$: <i>lacZ</i>	This study
CN004	CN001 <i>lacZ</i> : $P_{tac}mKate$: <i>lacZ</i>	This study
CN005	CN002 <i>lacZ</i> : $P_{tac}mTFP1$: <i>lacZ</i>	This study
CN006	CN002 <i>lacZ</i> : $P_{tac}mKate$: <i>lacZ</i>	This study
Plasmids		
pKAS32	Suicide plasmid for allelic exchange	4
pBH050	pKAS32 $\Delta flaA$	B. H. Hammer (Georgia Tech, Atlanta); this study
pCMW112	pKAS32 $\Delta vpsL$	C. M. Waters (Michigan State University, East Lansing, MI); this study
pCN003	pKAS32 <i>lacZ</i> : $P_{tac}mTFP1$: <i>lacZ</i>	This study
pCN004	pKAS32 <i>lacZ</i> : $P_{tac}mKate$: <i>lacZ</i>	This study

1. Thelin KH, Taylor RK (1996) Toxin-coregulated pilus, but not mannose-sensitive hemagglutinin, is required for colonization by *Vibrio cholerae* O1 El Tor and O139 strains. *Infect Immun* 64:2853–2856.
2. Miller MB, Skorupski K, Lenz DH, Taylor RK, Bassler BL (2002) Parallel quorum sensing circuits converge to regulate virulence in *Vibrio cholerae*. *Cell* 110:303–313.
3. Zhu J, et al. (2002) Quorum-sensing regulators control virulence gene expression in *Vibrio cholerae*. *Proc Natl Acad Sci USA* 99:3129–3134.
4. Skorupski K, Taylor RK (1996) Positive selection vectors for allelic exchange. *Gene* 169:47–52.