

Table S1: Strains plasmids and primers used in this study.

Strains, plasmids, and primers	Genotype, markers, or characteristics	Source
Strains		
<i>R. palustris</i> TIE-1	Wild-type strain	22
<i>R. palustris</i> Δshc	<i>R. palustris</i> Δshc	22
<i>R. palustris</i> $\Delta hpnH$	<i>R. palustris</i> $\Delta hpnH$	18
<i>R. palustris</i> $\Delta hpnG$ $\Delta hpnO$	<i>R. palustris</i> $\Delta hpnG$ $\Delta hpnO$	C. H. Wu
<i>glmX</i> ::P _{lacZ} —Pal—mCherry	<i>glmX</i> ::P _{lacZ} —Pal—mCherry	This study
Δshc <i>glmX</i> ::P _{lacZ} —Pal—mCherry	Δshc <i>glmX</i> ::P _{lacZ} —Pal—mCherry	This study
Plasmids		
pGK229	P _{lacI} —LacI—P _{lacZ} —mCherry	This study
pGK234	P _{lacI} —LacI—P _{lacZ} —Pal—mCherry	This study
Primers		
Pal forward	GGCGCGCCCATATGACCAATCACA AGCGAATCC	This study
Pal reverse without stop	TATCTAGAACTAGTGGCGCCGGCG TTCAGCAC	This study