

Table S2: *Myxococcus xanthus* strains used in this study. Related to STAR methods.

Plasmids	Relevant characteristics	Source or reference
pBJ114	Used to create deletions, galK, KmR	Julien et al., 2000
pSUW19	KmR used to integrate genes ectopically at Mx8 att	Leonardy et al., 2010
pSUW30	TcR used to integrate genes ectopically at Mx8 att	Leonardy et al., 2010
pEFrzSY	pEYFPN1 with a cassette allowing construction of the frzS-yfp chimeric gene	Laboratory collection
pBJ114 Δ mglA	pBJ114 with a deletion cassette for mglA	Mauriello et al. 2010
pBJ114 Δ mglB	pBJ114 with a deletion cassette for mglB	Zhang et al 2010
pBJ114 Δ romR	pBJ114 with a deletion cassette for romR	Zhang et al 2012
pBJ114 Δ frzE	pBJ114 with a deletion cassette for frzE	Bustamante et al 2004
pBJ114 Δ frzZ	pBJ114 with a deletion cassette for frzZ	Bustamante et al 2004
pSWU30 mglAYFP	pSWU30 allowing expression of mglA-yfp from its own promoter at Mx8att	Zhang et al 2010
pSWU19 mglBYFP	pSWU19 allowing expression of mglB-yfp from its own promoter at Mx8att	Zhang et al 2010
pBJ114 romRmCh	pBJ114 allowing expression of romR-mCh from endogenous locus	Zhang et al 2012
pGEX(M)	pGEX derivative with a 321-bp EcoRI/BamHI fragment from pET19b introducing a HindIII site in the pGEX polylinker	Molle et al 2003
pETPhos	pET-15b (Novagen) derivative including the replacement of the thrombin site coding sequence with a tobacco etch virus (TEV) protease site and Ser to Gly mutagenesis in the Nterm His-tag	Guzzo et al 2015
pETDuet	pETDuet TM -1 DNA - Novagen ; vector encodes two multiple cloning sites, each of which is preceded by a T7 promoter, lac operator and ribosome binding sites.	Novagen
pETPhos_frzCD	pETPhos derivative used to express His-tagged fusion of <i>Myxococcus xanthus</i> FrzCD in <i>E. coli</i>	Guzzo et al 2015
pETPhos_frzEkinase	pETPhos derivative used to express His-tagged fusion of <i>Myxococcus xanthus</i> FrzE in <i>E. coli</i>	Guzzo et al 2015
pGEX(M)_frzA	pGEX(M) derivative used to express GST-tagged fusion of <i>Myxococcus xanthus</i> FrzA in <i>E. coli</i>	Guzzo et al 2015
pETPhos_frzZ	pETPhos derivative used to express His-tagged fusion of <i>Myxococcus xanthus</i> FrzZ in <i>E. coli</i>	This work
pETPhos_frzX	pETPhos derivative used to express His-tagged fusion of <i>Myxococcus xanthus</i> FrzX in <i>E. coli</i>	This work
pETPhos_frzXD55A	pETPhos derivative used to express His-tagged fusion of <i>Myxococcus xanthus</i> FrzXD55A in <i>E. coli</i>	This work
pETDuet-RomR	pETDUET used to overexpress His-tagged fusion of <i>Myxococcus xanthus</i> RomR in <i>E.coli</i>	This work
pETDuet-RomR-RR	pETDUET used to overexpress His-tagged fusion of <i>Myxococcus xanthus</i> RomR-RR in <i>E.coli</i>	This work
pBJ114 Δ frzX	pBJ114 with a deletion cassette for frzX	This work

pBJ114 romRD53E	pBJ114 with romRD53E point mutation for double homologous recombination at native site	This work
pBJ114 romRD53N	pBJ114 with romRD53N mutation for double homologous recombination at native site	This work
pSWU30 frzX	pSWU30 with frzX gene under frzX promoter	This work
pSWU19 frzXD55A	pSWU19 with frzXD55A gene under frzX promoter	This work
pBJ114 romR-sfGFP	pBJ114 for clean replacement with romR-sfGFP at the locus	This work
pBJ114 frzZ-mcherry	pBJ114 with frzZ-mCherry fusion for single step integration at native site	This work
pSUW19 sfGFP-linker-frzX	pSWU19 with sfGFP-linker-frzX fusion under frzX promoter	This work
pSUW30 sfGFP-linker-frzX	pSWU30 with sfGFP-linker-frzX fusion under frzX promoter	This work