

Table S1. Bacterial strains used in this study.

Bacterial strain or plasmid	Genotype/phenotype	Reference or source
Strains		
<i>E. coli</i>		
JM109	F'[traD36 proAB+ lacIq lacZ ΔM15] recA1 supE44 endA1 hsdR17 gyrA96 relA1 thi Δ(lac-proAB)	(2)
TOP10	F ⁻ mcrA Δ (mrr-hsdRMS-mcrBC) Φ80lacZΔM15 ΔlacX74 recA1 araD139 Δ(ara-leu)7697 galU galK rpsL (Str ^R) endA1 nupG	Invitrogen
<i>M. xanthus</i>		
DZF1	Wild type	(1)
JMCA	ΔcopA, Gal ^r , Km ^s	This study
JMCB	ΔcopB, Gal ^r , Km ^s	This study
JMCC	ΔcopC, Gal ^r , Km ^s	This study
JMCAB	ΔcopA-ΔcopB, Gal ^r , Km ^s	This study
JMCAC	ΔcopA-ΔcopC, Gal ^r , Km ^s	This study
JMCBC	ΔcopB-ΔcopC, Gal ^r , Km ^s	This study
JMCABC	ΔcopAΔcopBΔcopC, Gal ^r Km ^s	This study
JMCAlac	copA-lacZ, Km ^r	This study
JMCBlac	copB-lacZ, Km ^r	This study
JMCClac1	copC-lacZ, Km ^r	This study
JMCClac2	copC-lacZ, Km ^r	This study
JMCClac3	copC-lacZ, Km ^r	This study
JMCABlac	copB-lacZ ΔcopA, Km ^r	This study
JMCBAlac	copA-lacZ ΔcopB, Km ^r	This study
JMCAclac1	copC-lacZ ΔcopA, Km ^r	This study
JMCBClac1	copC-lacZ ΔcopB, Km ^r	This study
JMCCAclac1	copA-lacZ ΔcopC, Km ^r	This study
JMCCBlac1	copB-lacZ ΔcopC, Km ^r	This study
JMCABCus1lac	ΔcopAΔcopB, cus1-lacZ	This study
JMCABCus2lac	ΔcopAΔcopB, cus2-lacZ	This study
JMCABCus3lac	ΔcopAΔcopB, cus3-lacZ	This study

1. **Morrison, C. E., and D. R. Zusman.** 1979. *Myxococcus xanthus* mutants with temperature-sensitive, stage-specific defects: evidence for independent pathways in development. *J Bacteriol* **140**:1036-1042.
2. **Yanisch-Perron, C., J. Vieira, and J. Messing.** 1985. Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors. *Gene* **33**:103-119.

Table S2. Plasmids used in this study.

Plasmids	Features	Reference or source
pBJ113	<i>galK</i> , Km ^r	(2)
pKY481	<i>lacZY</i> , Km ^r	(1)
pAELCA	$\Delta copA$, Km ^r	This study
pAELCB	$\Delta copB$, Km ^r	This study
pAELCC	$\Delta copC$, Km ^r	This study
pAELCAlac	<i>copA-lacZ</i> , Km ^r	This study
pAELCBlac	<i>copB-lacZ</i> , Km ^r	This study
pAELCClac1	<i>copC-lacZ</i> , Km ^r	This study
pAELCClac2	<i>copC-lacZ</i> , Km ^r	This study
pAELCClac3	<i>copC-lacZ</i> , Km ^r	This study
pAELCus1lac	<i>cus1-lacZ</i> , Km ^r	(3)
pAELCus2lac	<i>cus2-lacZ</i> , Km ^r	(3)
pAELCus3lac	<i>cus3-lacZ</i> , Km ^r	(3)

1. **Cho, K., and D. R. Zusman.** 1999. AsgD, a new two-component regulator required for A-signalling and nutrient sensing during early development of *Myxococcus xanthus*. *Mol Microbiol* **34**:268-281.
2. **Julien, B., A. D. Kaiser, and A. Garza.** 2000. Spatial control of cell differentiation in *Myxococcus xanthus*. *Proc Natl Acad Sci USA* **97**:9098-9103.
3. **Moraleda-Muñoz, A., J. Perez, A. L. Extremera, and J. Muñoz-Dorado.** 2010. Complexity of the *Myxococcus xanthus* copper response: differential regulation of six CBA-type heavy metal efflux systems. *Appl Env Microbiol* **companion manuscript accepted for publication.**

Table S3. Oligonucleotides used in this study.

Oligonucleotide	For amplification of	Sequence (5'→3') ^a
3415Kpn	Upstream of <i>copA</i> (pAELCA and pAELCA _{lac})	GAGGGTACCGCGCTGGCCACGAAAATGAT
3415Bam1	Upstream of <i>copA</i> (pAELCA and pAELCA _{lac})	CCTGGGGATCCACGAACATG
3415Bam2	Downstream of <i>copA</i> (pAELCA)	CGCGGATCCGAGCATCTCGTCCGTCTCCG
3415Hin	Downstream of <i>copA</i> (pAELCA)	CCAAAGCTTGAGTCAACAGGGCGAGGGTC
3422Kpn	Upstream of <i>copB</i> (pAELCB and pAELCB _{lac})	CGAGGTACCTGATGTGGTCCATCGCGCAG
3422Bam1	Upstream of <i>copB</i> (pAELCB and pAELCB _{lac})	ACGGGATCCATGGGGCTTCCTCCTGCC
3422Bam2	Downstream of <i>copB</i> (pAELCB)	GTCGGATCCGCTCAACAGCCTGCGTCTGC
3422Hin	Downstream of <i>copB</i> (pAELCB)	GCAAAGCTTGAAGTGGGCGACGTGGAATC
0979Kpn	Upstream of <i>copC</i> (pAELCC and pAELCC _{lac1})	CCGGGTACCAGGCAGTACGCCAGCTTCC
0979Bam1	Upstream of <i>copC</i> (pAELCC and pAELCC _{lac1})	TGTGGATCCATGGCGCTTCGAGGCTCCT
0979Bam2	Downstream of <i>copC</i> (pAELCC)	GTCGGATCCCGTCATCGGCAATGCGCTC
0979Hin	Downstream of <i>copC</i> (pAELCC)	CAGAAGCTTGTCTCCCAGCTCACTC
0979Bam3	Upstream of <i>copC</i> (pAELCC _{lac2})	TTCGGATCCACCTTCATGCCGCAGAC
0979Kpn2	Upstream of <i>copC</i> (pAELCC _{lac3})	CACGGTACCAGATGAGCACCGTGCCAG
0979Bam4	Upstream of <i>copC</i> (pAELCC _{lac3})	TGTGGATCCGCCCGCGGCAGCAGTGTGGC
CopCcDNA	Synthesis of cDNA including <i>copC</i>	ATTGCCGATGACGGACACCG
CopCF	Inside <i>copC</i>	GAATGGGAGAGGACGGTCAC
CopCR	Inside <i>copC</i>	CACAGGGGCAGGCAATGATG

^aThe restriction sites used for cloning are underlined.