

TABLE S5

## Strains

Name	Organism or plasmid	Description	Source
NA1000	<i>Caulobacter crescentus</i>	Reference strain	/
Rm1021	<i>Sinorhizobium meliloti</i>	Reference strain	/
2308	<i>Brucella melitensis</i> biovar <i>abortus</i>	Reference strain	Xavier de Bolle
CB15N	<i>Caulobacter crescentus</i>	Reference strain	/
gcrAts	<i>Caulobacter crescentus</i>	GcrA temperature (37) sensitive (mutation T10P), grow at 30C	Lucy Shapiro
EB510	<i>Caulobacter crescentus</i>	CB15N + pMR20 (TetR)	This study
EB517	<i>Caulobacter crescentus</i>	gcrAts + pMR20 (TetR)	This study
EB514	<i>Caulobacter crescentus</i>	CB15N + pMR20-GcrA( <i>S. meliloti</i> ) (TetR)	This study
EB519	<i>Caulobacter crescentus</i>	gcrAts + pMR20-GcrA( <i>S. meliloti</i> ) (TetR)	This study
EB516	<i>Caulobacter crescentus</i>	CB15N + pMR20-GcrA( <i>B. abortus</i> ) (TetR)	This study
EB521	<i>Caulobacter crescentus</i>	gcrAts + pMR20-GcrA( <i>B. abortus</i> ) (TetR)	This study
EB516	<i>Caulobacter crescentus</i>	CB15N + pMR20-GcrA( <i>C. crescentus</i> ) (TetR)	This study
EB523	<i>Caulobacter crescentus</i>	gcrAts + pMR20-GcrA( <i>C. crescentus</i> ) (TetR)	This study
BL21(D3E)	<i>Escherichia coli</i>	Expression strain (induction by IPTG)	/
UG2212	<i>Caulobacter crescentus</i>	CB15N $\Delta$ ccrM:: $\Omega$ (SpecR), transduced from LS2144	This study
LS3707	<i>Caulobacter crescentus</i>	CB15N $\Delta$ gcrA:: $\Omega$ (SpecR) P <sub>xyI</sub> -gcrA (KanR)	Holtzendorff <i>et al.</i> , 2004
LS2144	<i>Caulobacter crescentus</i>	CB15N $\Delta$ ccrM:: $\Omega$ (SpecR) P <sub>xyI</sub> -ccrM (TetR)	Stephens <i>et al.</i> , 1996

## Plasmids

EB343	pMR20 (TetR)	Low copy vector tetR	R. Roberts
EB494	pMR20-Pxyl-GcrA( <i>S. mel</i> ) (TetR)	Low copy vector tetR expressing <i>S. meliloti</i> gcrA by a xylose inducible promoter	This study
EB498	pMR20-Pxyl-GcrA( <i>B. abor</i> ) (TetR)	Low copy vector tetR expressing <i>B. abortus</i> gcrA by a xylose inducible promoter	This study
EB502	pMR20-Pxyl-GcrA( <i>C. cres</i> ) (TetR)	Low copy vector tetR expressing <i>C. crescentus</i> gcrA by a xylose inducible promoter	This study
EB335	pET-His6-GcrA(Cc)	<i>E. coli</i> IPTG-inducible vector expressing Cc gcrA	This study
EB488	pET-His6-GcrA(Sm)	<i>E. coli</i> IPTG-inducible vector expressing Sm gcrA	This study
EB490	pET-His6-GcrA(Ba)	<i>E. coli</i> IPTG-inducible vector expressing Ba gcrA	This study
LT375	P <sub>mipZ</sub> -lacZ	lacZ gene under the control of the wild-type mipZ promoter in plac290	This study
LT376	P <sub>podJ</sub> -lacZ	lacZ gene under the control of the wild-type podJ promoter in plac290	This study
LT377	P <sub>flaY</sub> -lacZ	lacZ gene under the control of the wild-type flaY promoter in plac290	This study
LT378	P <sub>pleC</sub> -lacZ	lacZ gene under the control of the wild-type pleC promoter in plac290	This study
LT379	P <sub>CCNA_0697</sub> -lacZ	lacZ gene under the control of the wild-type CCNA_0697 promoter in plac290	This study
LT432	P <sub>tipF</sub> -lacZ	lacZ gene under the control of the wild-type tipF promoter in plac290	This study
LT380	P <sub>mipZ</sub> -lacZ mut	lacZ gene under the control of the GANTC-mutant mipZ promoter in plac290	This study
LT381	P <sub>podJ</sub> -lacZ mut	lacZ gene under the control of the GANTCmutant podJ promoter in plac290	This study
LT382	P <sub>flaY</sub> -lacZ mut	lacZ gene under the control of the GANTCmutant flaY promoter in plac290	This study
LT383	P <sub>pleC</sub> -lacZ mut	lacZ gene under the control of the GANTCmutant pleC promoter in plac290	This study
LT384	P <sub>CCNA_0697</sub> -lacZ mut	lacZ gene under the control of the GANTCmutant CCNA_0697 promoter in plac290	This study
LT433	P <sub>tipF</sub> -lacZ mut	lacZ gene under the control of the GANTCmutant tipF promoter in plac290	This study