Table S1. Cyanobacterial strains, plasmids and oligonucleotides used in this work

Strain	Genotype	Resistance	Source
Anabaena sp. PCC 7120	WT		Pasteur Culture Collection
CSCV1	*mreB*::C.K1	Nm	36
CSCV2	*mreD*::C.S3	Sm, Sp	36
CSCV4	*mreC*::C.K1	Nm	36
CSCV6	*thrS2*::P_{mreB}-*sfgfp-mreB*	Sm, Sp	10
CSCV7	*thrS2*::P_{mreB}-*sfgfp-mreC*	Sm, Sp	10
CSCV8	*thrS2*::P_{mreB}-*sfgfp-mreD*	Sm, Sp	10
CSSC19	P_{ftsZ}-*ftsZ-gfpmut2*	Sm, Sp	37
CSCV20	P_{ftsZ}-*ftsZ-gfpmut2*, *mreB*	Nm, Sm, Sp	10
CSCV21	P_{ftsZ}-*ftsZ-gfpmut2*, *mreC*	Nm, Sm, Sp	10
CSCV22	P_{ftsZ}-*ftsZ-gfpmut2*, *mreD*	Nm, Sm, Sp	10
CSAV39	P_{zipN}-*sfgfp-zipN*	Sm, Sp	39
CSCV14	P_{zipN}-*sfgfp-zipN*, *mreB*	Nm, Sm, Sp	10
CSCV15	P_{zipN}-*sfgfp-zipN*, *mreC*	Nm, Sm, Sp	10
CSCV16	P_{zipN}-*sfgfp-zipN*, *mreD*	Nm, Sm, Sp	10
CSS89	*sepJ-gfpmut2*	Nm	38
CSCV17	*sepJ-gfpmut2*, *mreB*	Nm, Sm, Sp	This study
CSCV18	*sepJ-gfpmut2*, *mreC*	Nm, Sm, Sp	This study
CSCV19	*sepJ-gfpmut2*, *mreD*	Nm, Sm, Sp	This study

Plasmid	Description	Resistance marker	Source
pCSCV38	pCSV3 carrying *sepJ-gfpmut2*	Sm, Sp	This study
pCSVT22	pRL424 carrying *sepJ-gfpmut2*	Nm	23

Oligodeoxynucleotide primers[1]	Sequence (5′-3′)
alr2338-BamHI	CGTGGGATCCTTTTCTGTGGTGAGGTGC
gfp-BamHI	AAGCGGATCCTTATTTGTATAGTTCATCCATGCC

[1]The underlined letters indicate a restriction site.