SUPPLEMENTARY MATERIALS AND METHODS

TABLE S1: *Bacillus subtilis* strains used in this study

Strain	Genotype	Source	Figure
PY79	wild-type	Youngman et al., 1983	1, 3, 7, S1, S4, S5, S7
BDR2649	sacA::Pveg-mCherry (spec)	Meisner *et al*., 2013	Fig. 2, S3
BDR776	amyE::PxylA-gfp-spoIVFA (cat)	This study	Fig. 3
BJM054	cwlO::cat	Meisner *et al*., 2013	Fig. 4, S4
BJM072	ftsX::kan	Meisner *et al*., 2013	Fig. 7
BJM076	lytE::cat	Meisner *et al*., 2013	Fig. 1
BJM182	lytE::tet, ycgO::Pspank-lytE (erm)	Meisner *et al*., 2013	Fig. 1
BJM196	lytE::tet, ycgO::Pspank-lytE (erm), cwlO::kan	Meisner *et al*., 2013	Fig. 1
BJM272	ftsEX::cat	Meisner *et al*., 2013	Fig. 4, S4
BYB021	ycgO::Pspank-lytE (spec)	This study	
BYB032	lytE::cat, ycgO::Pspank-lytE (spec)	This study	Fig. 6, S5
BYB035	lytE::cat, ycgO::Pspank-lytE (spec), cwlO::kan	This study	Fig. S5
BYB036	lytE::cat, ycgO::Pspank-lytE (spec), ftsEX::kan	This study	Fig. S5
BYB265	cwlO::cat, ycgO::Pspank-5'UTR-cwlO (spec), sacA::Pveg-mCherry (tet)	This study	Fig. S3
BYB279	cwlO::cat, ycgO::Pspank-5'UTR-cwlO (spec), sacA::Pveg-mCherry (tet), lytE::erm	This study	Fig. 2, S3
BYB287	cwlO::cat, ycgO::Pspank-5'UTR-cwlO (spec), sacA::Pveg-mCherry (tet), lytE::kan	This study	Fig. S7
BYB304	ΔsweC::lox72	This study	Fig. 4, S1
BYB325	ΔsweC::lox72, ycgO::Pspank-lytE (erm), lytE::cat	This study	Fig. 1
BYB329	ΔsweD::lox72, ycgO::Pspank-lytE (erm), lytE::cat	This study	Fig. 1
BYB339	sweDC::kan	This study	Fig. 4, 6
BYB356	ycgO::Pspank-sweDC (erm), sweDC::kan	This study	Fig. 1
BYB358	ycgO::Pspank-sweDC (erm), sweDC::kan, lytE::cat	This study	Fig. 1
BYB360	ycgO::Pspank-sweDC (erm), sweDC:kan, sacA::Pveg-mCherry (tet)	This study	Fig. S3
BYB362	ycgO::Pspank-sweDC (erm), sweDC:kan, lytE::cat, sacA::Pveg-mCherry (tet)	This study	Fig. 2, S3
BYB366	sweDC::kan, lytE::cat clone#1	This study	
BYB367	sweDC::kan, lytE::cat clone#2	This study	
BYB368	sweDC::kan, lytE::cat clone#3	This study	
BYB370	sacA::Pveg-mCherry (spec), sweDC::kan	This study	Fig. 2
BYB371	sacA::Pveg-mCherry (spec), cwlO::cat	This study	Fig. 2
BYB372	sacA::Pveg-mCherry (spec), ftsEX::cat	This study	Fig. 2
BYB373	sacA::Pveg-mCherry (spec), lytE::cat	This study	Fig. 2
BYB374	sacA::Pveg-mCherry (spec), sweDC::kan, cwlO::cat	This study	Fig. 2
BYB377	ycgO::Pspank-sweDC (erm), sweDC::kan, cwlO::cat	This study	Fig. 1
BYB405	ftsEX::kan, amyE::ftsE(K41A)-ftsX (spec)	This study	Fig. S4
BYB439	ftsEX::kan, ycgO::Pspank-ftsEX (erm), lytE::cat, sacA::Pveg-mCherry (tet)	This study	Fig. 2
BYB461	ftsEX (erm)	This study	
BYB493	ΔsweC::lox72, ycgO::Pspank-sweC (spec)	This study	Fig. 4, S1
BYB515	lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan	This study	Fig. 6, S5, S7, S8
BYB522	ftsE(V176F) (erm)	This study	
BYB523	ftsX(S26Y) (erm)	This study	
BYB529	lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan, ftsE(V176F) (erm)	This study	Fig. 6, S7

BYB530	*lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan, ftsX(S26Y) (erm)*	This study	Fig. 6, S7
BYB533	*lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan, walH::tet*	This study	Fig. 6, S7
BYB546	*ΔsweD::lox72*	This study	Fig. 4, S1
BYB550	*ΔsweD::lox72, ycgO::Pspank-sweD (spec)*	This study	Fig. 4, S1
BYB552	*ΔsweD::lox72, ycgO::Pspank-sweD (spec), lytE::cat*	This study	Fig. S1
BYB558	*ΔsweC::lox72, ycgO::Pspank-sweC (spec), lytE::cat*	This study	Fig. S1
BYB563	*ΔsweD::lox72, ycgO::Pspank-sweD (spec), cwlO::cat*	This study	Fig. S2
BYB564	*ΔsweD::lox72, ycgO::Pspank-sweD (spec), ftsEX::kan*	This study	Fig. S3
BYB565	*ΔsweC::lox72, ycgO::Pspank-sweC (spec), cwlO::cat*	This study	Fig. S4
BYB566	*ΔsweC::lox72, ycgO::Pspank-sweC (spec), ftsEX::kan*	This study	Fig. S5
BYB583	*ftsEX::kan, amyE::ftsE(H195Y)-ftsX (spec)*	This study	Fig. S4
BYB584	*ftsEX::kan, amyE::ftsE(D162A)-ftsX (spec)*	This study	Fig. S4
BYB585	*lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan, ftsE(V176F) (erm), walH::tet*	This study	Fig. 6, S7
BYB587	*lytE::cat, ycgO::Pspank-lytE (spec), sweDC::kan, ftsX(S26Y) (erm), walH::tet*	This study	Fig. 6, S7
BYB592	*ΔsweD::lox72 amyE::sweD-sfGFP (kan)*	This study	Fig. S9
BYB660	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat), sweDC::kan*	This study	Fig. 5
BYB1181	*sacA::Pveg-mcherry (tet), lytE::cat, yvbJ::Pspank-lytE (spec)*	This study	Fig. S3
BYB1185	*sacA::Pveg-mcherry (tet), lytE::cat, yvbJ::Pspank-lytE (spec), cwlO::kan*	This study	Fig. S3
BYB1225	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat), sweDC::kan, ycgO::Pspank-sweDC (erm)*	This study	Fig. 5
BYB1226	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat), sweDC::kan, ycgO::Pspank-sweDC(Δ25-57) (spec)*	This study	Fig. 5
BYB1228	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat), sweDC::kan, ycgO::Pspank-sweDC(Δ74-108) (spec)*	This study	Fig. 5
BYB1229	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat) sweDC::kan, ycgO::Pspank-sweDC(D104A V105A) (spec)*	This study	Fig. 5
BYB1230	*ΔlytE::lox72, yvbJ::PxylA-lytE (cat) sweDC::kan, ycgO::Pspank-sweDC(ΔLysM) (spec)*	This study	Fig. 5
BYB1231	*sweDC::kan, ycgO::Pspank-sweDC (erm)*	This study	Fig. 5
BYB1232	*sweDC::kan, ycgO::Pspank-sweDC(Δ25-57) (spec)*	This study	Fig. 5
BYB1234	*sweDC::kan, ycgO::Pspank-sweDC(Δ74-108) (spec)*	This study	Fig. 5
BYB1235	*sweDC::kan, ycgO::Pspank-sweDC(D104A V105A) (spec)*	This study	Fig. 5
BYB1236	*sweDC::kan, ycgO::Pspank-sweDC(ΔLysM) (spec)*	This study	Fig. 5
BYB1446	*sacA::Pveg-mCherry (tet), lytE::cat, yvbJ::Pspank-lytE (spec), sweDC::erm*	This study	Fig. S3
BYB1447	*sacA::Pveg-mCherry (tet), lytE::cat, yvbJ::Pspank-lytE (spec), cwlO::kan, sweDC::erm*	This study	Fig. S3
BYB1448	*walH::tet*	This study	