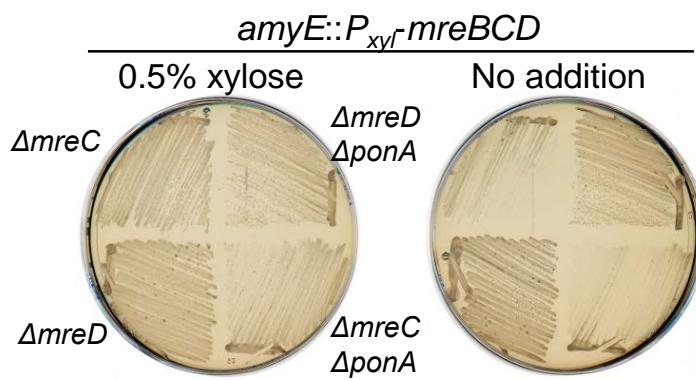
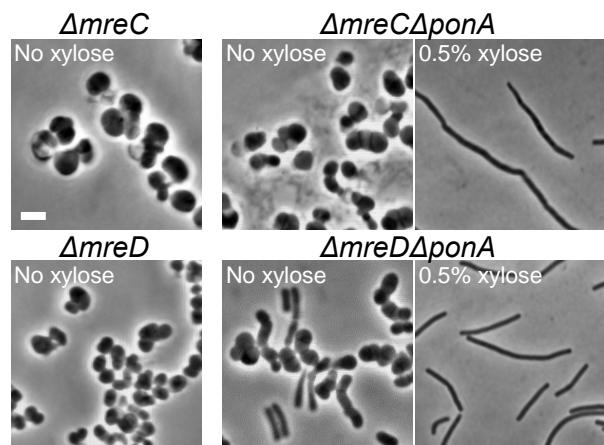


Extended data Figure 1

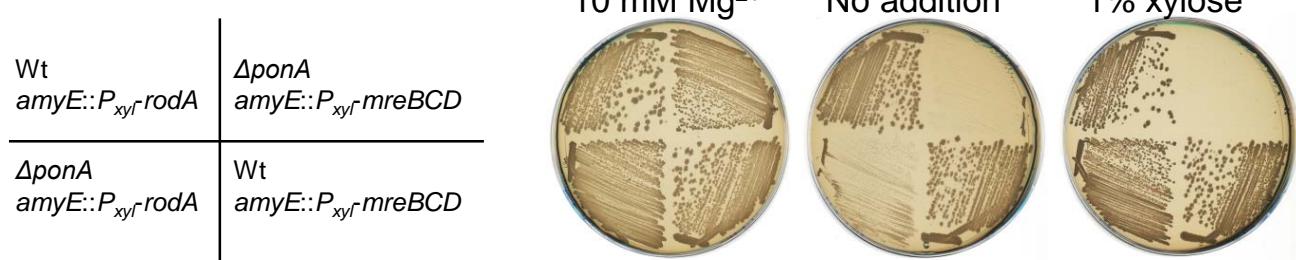
A



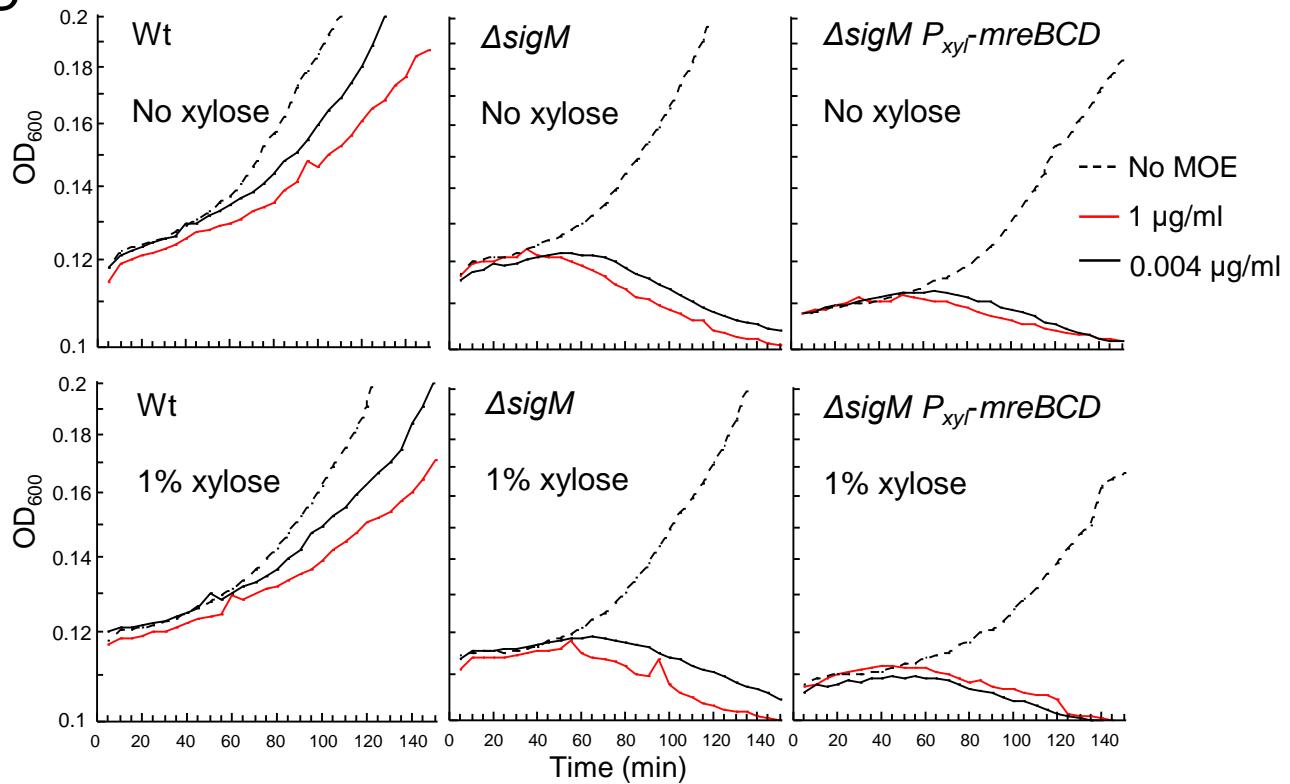
B



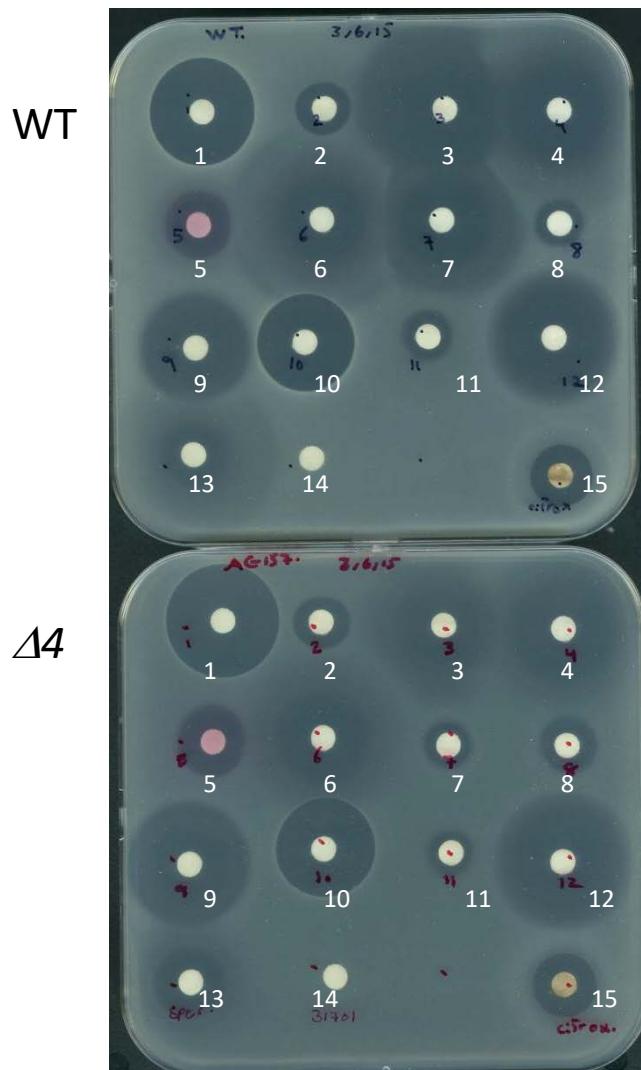
C



D

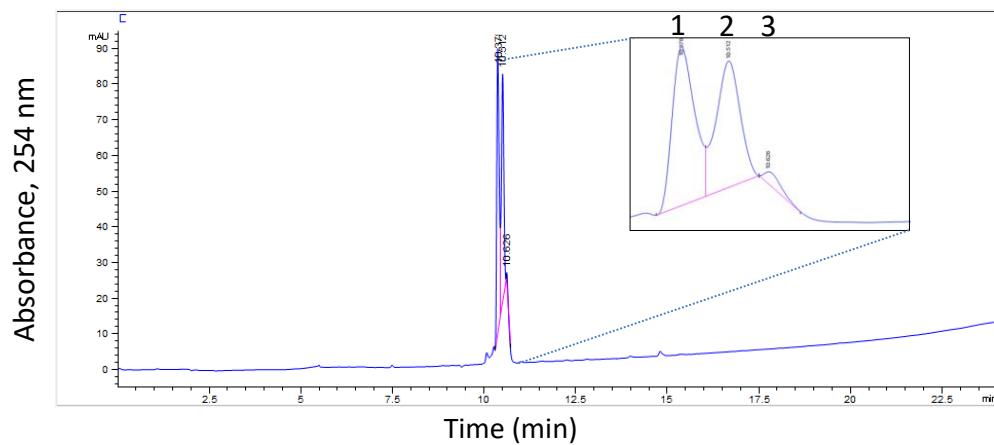


Extended data Figure 2

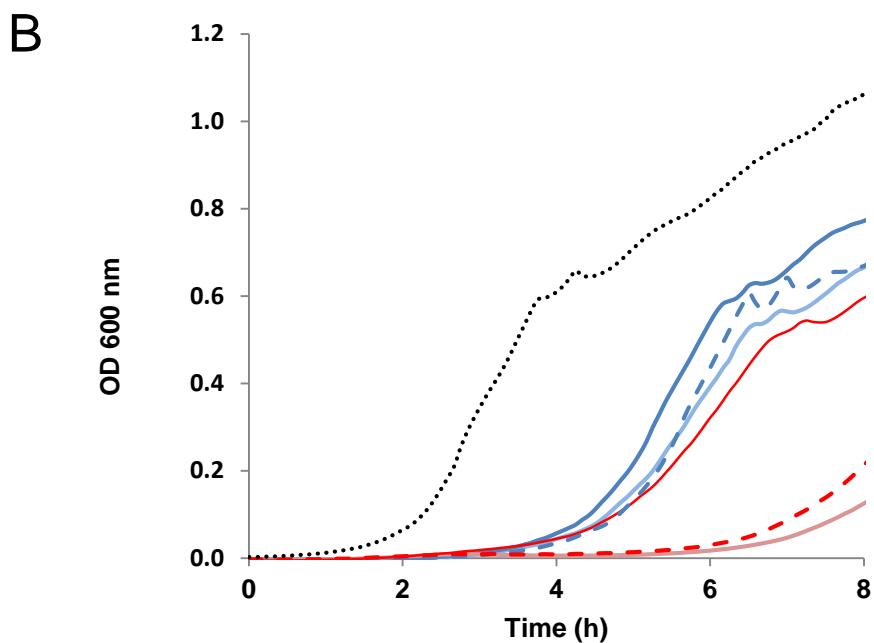
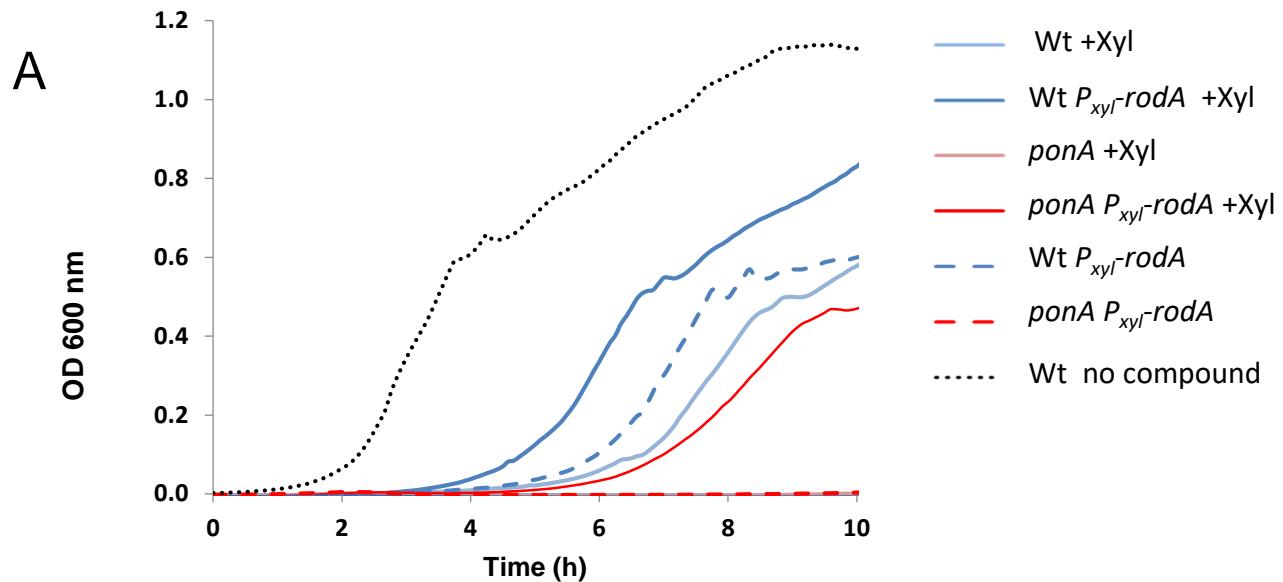


	Antibiotic
1	Ampicillin
2	Bacitracin
3	Cefoxitin
4	Chloramphenicol
5	Doxorubicin
6	Erythromycin
7	Kanamycin
8	Nalidixic acid
9	Nystatin
10	Penicillin
11	Tetracycline
12	Triclosan
13	Spectinomycin
14	Control
15	Citrox

Extended data Figure 3



Extended data Figure 4



Extended data Table 1. Candidates for the missing GTase gene^a.

Gene	BSU code ^a	Operon structure ^b	σ^M ^c	MOE ^d	Fi in $\Delta 4 / WT$ ^e	MOE-growth assays ^f	Known or possible function
<i>divIC</i>	BSU00620		+	+		Essential	Unknown (cell division)
<i>tilS</i>	BSU00670	<i>tilS hprT ftsH coaX yacC</i>	+	+		Essential	tRNA modification
<i>hprT</i>	BSU00680	<i>tilS hprT ftsH coaX yacC</i>	+			Essential	Nucleotide metabolism
<i>ftsH</i>	BSU00690	<i>tilS hprT ftsH coaX yacC</i>	+				Protease
<i>coaX</i>	BSU00700	<i>tilS hprT ftsH coaX yacC</i>	+		2.2		Coenzyme A synthesis
<i>yacC</i>	BSU00710	<i>tilS hprT ftsH coaX yacC</i>	+		2.8	Tested	Unknown
<i>disA</i>	BSU00880	<i>disA yacL ispDF</i>	+	+			Diadenylate cyclase
<i>yacL</i>	BSU00890	<i>disA yacL ispDF</i>	+			Tested	Unknown
<i>ispD</i>	BSU00900	<i>disA yacL ispDF</i>	+			Essential	Lipid II synthesis
<i>ispF</i>	BSU00910	<i>disA yacL ispDF</i>	+			Essential	Lipid II synthesis
<i>yceC</i>	BSU02890	<i>yceCDEFGH</i>	+	+		Tested	Unknown
<i>yceD</i>	BSU02900	<i>yceCDEFGH</i>	+	+		Tested	Unknown
<i>yceE</i>	BSU02910	<i>yceCDEFGH</i>	+			Tested	Unknown
<i>yceF</i>	BSU02920	<i>yceCDEFGH</i>	+			Tested	Unknown
<i>yceG</i>	BSU02930	<i>yceCDEFGH</i>	+		1.4	Tested	Unknown
<i>yceH</i>	BSU02940	<i>yceCDEFGH</i>	+			Tested	Unknown
<i>ycgQ</i>	BSU03240	<i>ycgQ ycgR</i>	+	+	5.7	Tested	Unknown
<i>ycgR</i>	BSU03250	<i>ycgQ ycgR</i>	+	+	13.6	Tested	Unknown
<i>amj</i>	BSU04230		+	+	12.2	Tested	Lipid II flipping
<i>ddl</i>	BSU04560	<i>ddl murF</i>	+			Essential	Lipid II synthesis
<i>murF</i>	BSU04570	<i>ddl murF</i>	+			Essential	Lipid II synthesis
<i>ydcA</i>	BSU04610			+		Tested	Unknown
<i>ydfM</i>	BSU05470				20.5	Tested	Unknown
<i>yebC</i>	BSU06380		+	+	23.9	Tested	Unknown
<i>ltaSA</i>	BSU07260		+	+	9.7	Tested	Lipoteichoic acid synthesis
<i>yfiC</i>	BSU08220			+		Tested	Unknown
<i>yfin</i>	BSU08330				21.5	Tested	Unknown

Gene	BSU code ^a	Operon structure ^b	σ^M ^c	MOE ^d	Fi in $\Delta 4 / WT$ ^e	MOE-growth assays ^f	Known or possible function
<i>yhbI</i>	BSU08990				69.9	Tested	Unknown
<i>yhdK</i>	BSU09500	<i>sigM yhdL yhdK</i>	+	+	4.7		σ^M regulation
<i>yhdL</i>	BSU09510	<i>sigM yhdL yhdK</i>	+	+	5.1	Essential	σ^M regulation
<i>sigM</i>	BSU09520	<i>sigM yhdL yhdK</i>	+	+	29.6	Tested	Transcriptional regulation
<i>yjbC</i>	BSU11490	<i>yjbC spx</i>	+			Tested	Unknown
<i>spx</i>	BSU11500	<i>yjbC spx</i>	+				Transcriptional regulation
<i>abh</i>	BSU14480		+	+	1.7	Tested	Transcriptional regulation
<i>ylaA</i>	BSU14710			+	1.9	Tested	Unknown
<i>ylzH</i>	BSU15069				13.1	Tested	Unknown
<i>murG</i>	BSU15220	<i>murGB divIB ylxWX sbp</i>	+	+	14.3	Essential	Lipid II synthesis
<i>murB</i>	BSU15230	<i>murGB divIB ylxWX sbp</i>	+	+	12.1	Essential	Lipid II synthesis
<i>divIB</i>	BSU15240	<i>murGB divIB ylxWX sbp</i>	+	+	5.9	Essential	Unknown (cell division)
<i>ylxW</i>	BSU15250	<i>murGB divIB ylxWX sbp</i>	+	+	4.5	Tested	Unknown
<i>ylxX</i>	BSU15260	<i>murGB divIB ylxWX sbp</i>	+	+	3.4	Tested	Unknown
<i>sbp</i>	BSU15270	<i>murGB divIB ylxWX sbp</i>	+	+		Tested	Unknown
<i>pbpX</i>	BSU16950		+	+	2.3		PG turnover
<i>yngC</i>	BSU18190		+		2.9	Tested	Unknown
<i>metA</i>	BSU21910	<i>metA ugtP</i>	+		-1.8		Methionine synthesis
<i>ugtP</i>	BSU21920	<i>metA ugtP</i>	+		1.5		Glucolipid synthesis
<i>recU</i>	BSU22310	<i>recU ponA</i>	+	+	5.9		DNA recombination
<i>ponA</i>	BSU22320	<i>recU ponA</i>	+	+	-186.5		PG synthesis
<i>ypbG</i>	BSU22980		+	+	5.0	Tested	Unknown
<i>ypuD</i>	BSU23300		+	+	5.1	Tested	Unknown
<i>ypuA</i>	BSU23370		+		11.0	Tested	Unknown
<i>yqjL</i>	BSU23830		+	+	4.0	Tested	Unknown
<i>yqiG</i>	BSU24210			+		Tested	Unknown
<i>yrhL</i>	BSU27140			+	1.5	Tested	Unknown
<i>yrhJ</i>	BSU27160	<i>yrhH fatR yrhJ</i>	+	+	2.6	Tested	Unknown
<i>fatR</i>	BSU27170	<i>yrhH fatR yrhJ</i>	+	+	1.5	Tested	Transcriptional regulation

Gene	BSU code ^a	Operon structure ^b	σ^M ^c	MOE ^d	Fi in $\Delta 4 / WT$ ^e	MOE-growth assays ^f	Known or possible function
<i>yrhH</i>	BSU27180	<i>yrhH fatR yrhJ</i>	+	+	15.9	Tested	Unknown
<i>secDF</i>	BSU27650		+				Protein secretion
<i>yrzF</i>	BSU27785			+	2.1	Tested	Unknown
<i>minD</i>	BSU27990	<i>maf radC mreBCD minCD</i>	+		3.5	Tested	Cell division regulation
<i>minC</i>	BSU28000	<i>maf radC mreBCD minCD</i>	+	+	3.7	Tested	Cell division regulation
<i>mreD</i>	BSU28010	<i>maf radC mreBCD minCD</i>	+	+	5.7	Essential	Unknown (cell shape)
<i>mreC</i>	BSU28020	<i>maf radC mreBCD minCD</i>	+	+	6.2	Essential	Unknown (cell shape)
<i>mreB</i>	BSU28030	<i>maf radC mreBCD minCD</i>	+	+	5.0		Cytoskeleton
<i>radC</i>	BSU28040	<i>maf radC mreBCD minCD</i>	+		7.6		DNA repair
<i>maf</i>	BSU28050	<i>maf radC mreBCD minCD</i>	+	+	6.8		Unknown
<i>ytpB</i>	BSU30500	<i>ytpA ytpB</i>	+				Unknown
<i>ytpA</i>	BSU30510	<i>ytpA ytpB</i>	+	+		Tested	Unknown
<i>yvrD</i>	BSU33190			+		Tested	Unknown
<i>tagT</i>	BSU35840		+	+	2.3	Tested	Teichoic acid synthesis
<i>rapD</i>	BSU36380		+		-1.8		Competence regulation
<i>bcrC</i>	BSU36530		+	+	5.7	Tested	Lipid II recycling
<i>ywnJ</i>	BSU36540		+	+	1.3	Tested	Unknown
<i>ywzG</i>	BSU38018				12.7	Tested	Unknown
<i>rodA</i>	BSU38120		+	+	4.7	Essential	Unknown (cell shape)
<i>ywbO</i>	BSU38250	<i>efeB ywbO</i>	+		-1.4	Tested	Unknown
<i>efeB</i>	BSU38260	<i>efeB ywbO</i>	+				Iron uptake
<i>ywbG</i>	BSU38330				16.5	Tested	Unknown
<i>ywaC</i>	BSU38480		+	+	5.3	Tested	(p)ppGpp synthase
<i>dltA</i>	BSU38500	<i>dltABCDE</i>	+		3.6	Tested	Teichoic acid synthesis
<i>dltB</i>	BSU38510	<i>dltABCDE</i>	+		6.2	Tested	Teichoic acid synthesis
<i>dltC</i>	BSU38520	<i>dltABCDE</i>	+		7.7		Teichoic acid synthesis
<i>dltD</i>	BSU38530	<i>dltABCDE</i>	+		7.7		Teichoic acid synthesis
<i>dltE</i>	BSU38540	<i>dltABCDE</i>	+	+	7.3		Teichoic acid synthesis
<i>yxeF</i>	BSU39570				24.4	Tested	Unknown

- a** Genes and BSU code organized by increasing BSU number.
- b** A few σ^M -dependent genes belong to same operon^{10 26,27}, as indicated.
- c** Known σ^M -dependent genes are labelled “+”^{10 26}.
- d** Genes reported to belong to the MOE stimulon are labelled “+”¹⁰.
- e** Fold increase (Fi) in transcription (RNA-Seq data) of genes in strain *A4* (AG157) relative to the wild type (168CA), in mid-exponential cells grown in nutrient broth at 37°C. “-“ indicates down regulation.
- f** Around fifty gene deletion strains were tested by MOE-growth assays (growth in LB was monitored for 16h in the presence of 0, 1.25, 2.5, 5, 10 and 20 $\mu\text{g ml}^{-1}$ of MOE). Essential genes were not tested, except as indicated in the Results.

Extended data Table 2. Strains plasmids and oligos.

Bacterial strains used in this study

Strains	Relevant genotype	References
<i>E. coli</i>		
DH5 α	F- ϕ 80lacZ Δ M15 Δ (lacZYargF)U196 recA1 endA1 hsdR17 (r_K -, m_{K+}) phoA supE44 λ - thi1	Lab. stock
TG1	K-12 supE thi-1 Δ (lac-proAB) Δ (mcrB-hsdSM)5, (r_K m_K)	Lab. stock
<i>B. subtilis</i>		
168CA	<i>trpC2</i>	Lab. stock
DPVB45	Δ <i>pbpG::kan</i>	11
RE101	168CA Δ <i>ponA</i>	This work
AG157	168CA Δ <i>ponA</i> Δ <i>pbpD</i> Δ <i>pbpF</i> Δ <i>pbpG::kan</i>	This work
AG201	168CA Δ <i>pbpG::erm</i>	This work
AG221	168CA Δ <i>ponA</i> Δ <i>pbpD</i> Δ <i>pbpF</i> Δ <i>pbpG::erm</i> pLOSS- <i>P_{spac}</i> - <i>ponA</i>	This work
AG494	168CA Δ <i>sigM::kan</i>	28
AG831	AG221 Δ <i>sigM::kan</i>	This work
YK1342	168CA Ω neo3427 Δ <i>mreD</i>	16
YK1343	168CA Δ <i>rodA::kan</i>	16
YK1347	168CA Ω neo3427 Δ <i>mreC</i> kan	16
YK1334	168CA Δ <i>ponA::spc</i>	24
YK2235	AG221 Ω <i>rodA::kan-P_{spac}-rodA</i>	This work
YK2239	168CA Δ <i>ponA</i> Δ <i>pbpD</i> Δ <i>pbpF</i> Δ <i>pbpG::erm</i>	This work
YK2242	YK2239 Ω <i>rodA::kan-P_{spac}-rodA</i>	This work
YK2245	168CA Ω <i>rodA::kan-P_{spac}-rodA</i>	This work
YK2246	168CA Δ <i>ponA::spc</i> Ω <i>rodA::kan-P_{spac}-rodA</i>	This work
YK2249	168CA <i>amyE::P_{xyl}-rodA cat</i>	This work
YK2250	168CA <i>amyE::P_{xyl}-ftsW cat</i>	This work
YK2251	168CA Δ <i>ponA::spc</i> <i>amyE::P_{xyl}-rodA cat</i>	This work
YK2256	AG221 <i>amyE::P_{xyl}-rodA cat</i>	This work
YK2257	AG221 <i>amyE::P_{xyl}-ftsW cat</i>	This work
YK2259	AG221 <i>amyE::P_{xyl}-rodA cat</i> Δ <i>sigM::kan</i>	This work
YK2268	168CA <i>amyE::P_{xyl}-rodA cat</i> Δ <i>sigM::kan</i>	This work
YK2270	168CA <i>amyE::P_{xyl}-mreBCD spc</i> Δ <i>mreC::kan</i>	15
YK2271	168CA <i>amyE::P_{xyl}-mreBCD spc</i> Δ <i>mreD::kan</i>	15
YK2272	168CA <i>amyE::P_{xyl}-mreBCD spc</i> Δ <i>mreC::kan</i> Δ <i>ponA</i>	This work
YK2273	168CA <i>amyE::P_{xyl}-mreBCD spc</i> Δ <i>mreD::kan</i> Δ <i>ponA</i>	This work
YK2274	168CA <i>amyE::P_{xyl}-mreBCD</i>	15
YK2275	168CA <i>amyE::P_{xyl}-mreBCD spc</i> Δ <i>ponA</i>	This work
YK2276	168CA Δ <i>sigM::kan</i> <i>amyE::P_{xyl}-mreBCD spc</i>	This work
<i>B. subtilis</i> strains used for MOE sensitivity test		
AG832	168CA Δ <i>yIxW::erm</i>	Koo BM <i>et al.</i> , in preparation
AG833	168CA Δ <i>yIxX::erm</i>	Koo BM <i>et al.</i> , in preparation
AG834	168CA Δ <i>sbp::erm</i>	Koo BM <i>et al.</i> , in preparation
AG835	168CA Δ <i>yqjL::erm</i>	Koo BM <i>et al.</i> , in preparation
AG836	168CA Δ <i>ytpA::erm</i>	Koo BM <i>et al.</i> , in preparation
AG837	168CA Δ <i>yceC::erm</i>	Koo BM <i>et al.</i> , in preparation
AG838	168CA Δ <i>yceD::erm</i>	Koo BM <i>et al.</i> , in preparation
AG839	168CA Δ <i>yceE::erm</i>	Koo BM <i>et al.</i> , in preparation
AG840	168CA Δ <i>ypbG::erm</i>	Koo BM <i>et al.</i> , in preparation
AG851	168CA Δ <i>ypuD::erm</i>	Koo BM <i>et al.</i> , in preparation
AG852	168CA Δ <i>yqiG::erm</i>	Koo BM <i>et al.</i> , in preparation
AG853	168CA Δ <i>yxeF::erm</i>	Koo BM <i>et al.</i> , in preparation
AG856	168CA Δ <i>yceH::erm</i>	Koo BM <i>et al.</i> , in preparation
AG857	168CA Δ <i>yceF::erm</i>	Koo BM <i>et al.</i> , in preparation
AG858	168CA Δ <i>yfiC::erm</i>	Koo BM <i>et al.</i> , in preparation
AG859	168CA Δ <i>yizH::erm</i>	Koo BM <i>et al.</i> , in preparation

AG860	168CA Δ yrzF::erm	Koo BM et al., in preparation
AG861	168CA Δ ywbG::erm	Koo BM et al., in preparation
AG862	168CA Δ ywzG::erm	Koo BM et al., in preparation
AG863	168CA Δ ydfM::erm	Koo BM et al., in preparation
AG864	168CA Δ yrhH::erm	Koo BM et al., in preparation
AG865	168CA Δ yfiN::erm	Koo BM et al., in preparation
AG881	168CA Δ ycgQ::erm	Koo BM et al., in preparation
AG882	168CA Δ ycgR::erm	Koo BM et al., in preparation
AG883	168CA Δ yjbC::erm	Koo BM et al., in preparation
AG884	168CA Δ ylaA::erm	Koo BM et al., in preparation
AG885	168CA Δ amj::erm	Koo BM et al., in preparation
AG886	168CA Δ yrhL::erm	Koo BM et al., in preparation
AG887	168CA Δ ytrB::erm	Koo BM et al., in preparation
AG888	168CA Δ ywbO::erm	Koo BM et al., in preparation
AG1085	168CA Δ yceG::erm	Koo BM et al., in preparation
AG1086	168CA Δ ywaC::erm	Koo BM et al., in preparation
AG1087	168CA Δ jacL::erm	Koo BM et al., in preparation
AG1088	168CA Δ yebC::erm	Koo BM et al., in preparation
AG1089	168CA Δ abh::erm	Koo BM et al., in preparation
AG1090	168CA Δ yacC::erm	Koo BM et al., in preparation
AG1091	168CA Δ yruA::erm	Koo BM et al., in preparation
AG1092	168CA Δ yngC::erm	Koo BM et al., in preparation
AG1093	168CA Δ ydcA::erm	Koo BM et al., in preparation
AG1094	168CA Δ bcrC::erm	Koo BM et al., in preparation
AG1095	168CA Δ yrhJ::erm	Koo BM et al., in preparation
AG1096	168CA Δ fatR::erm	Koo BM et al., in preparation
AG1097	168CA Δ ywnJ::erm	Koo BM et al., in preparation
AG1098	168CA Δ yvrD::erm	Koo BM et al., in preparation
AG1100	168CA Δ yhbl::erm	Koo BM et al., in preparation
AG1161	168CA Δ minCD::kan	29
AG1174	168CA minD::erm	30
AG1245	168CA dltAB::cat	31
RE203	168CA Δ tagT::spc	16
AG612	168CA Δ ltaSA::erm	32

cat, chloramphenicol; *tet*, tetracyclin; *erm*, erythromycin; *spc*, spectinomycin; *kan*, kanamycin; *bla*, β -lactamase; represent resistant genes, respectively.

Plasmids used in this study

Plasmids	Relevant features	References
pMUTIN4	used as matrix to amplify <i>erm</i>	33
pG ⁺ host9	thermosensitive replication, <i>erm</i>	23
pG ⁺ host10	pG ⁺ host9, <i>bla</i>	This study
pG ⁺ host9:: Δ ponA	carry flanking DNA regions of <i>ponA</i>	This study
pG ⁺ host10:: Δ pbpD	carry flanking DNA regions of <i>pbpD</i>	This study
pG ⁺ host10:: Δ pbpF	carry flanking DNA regions of <i>pbpF</i>	This study
pLOSS*	<i>bla</i> <i>spc</i> <i>P_{spac}</i> -mcs <i>P_{divIV-A}</i> - <i>lacZ</i> <i>lacI</i> <i>rep_{PLS20}</i> (GA \rightarrow CC)	24
pLOSS- <i>P_{spac}</i> - <i>ponA</i>	<i>bla</i> <i>spc</i> <i>P_{spac}</i> - <i>ponA</i> <i>P_{divIV-A}</i> - <i>lacZ</i> <i>lacI</i> <i>rep_{PLS20}</i> (GA \rightarrow CC)	This study
pSG441	<i>bla</i> <i>aph-A3</i> <i>lacI</i> <i>P_{spac}</i>	34
pRD159	<i>bla</i> <i>aph-A3</i> <i>lacI</i> <i>P_{spac}</i> - <i>rodA'</i>	This work
pJPR1	<i>bla</i> <i>amyE3'</i> <i>cat</i> <i>P_{xyl}</i> <i>amyE5'</i>	Lab stock
pRD163	<i>bla</i> <i>amyE3'</i> <i>cat</i> <i>P_{xyl}</i> - <i>rodA</i> <i>amyE5'</i>	This work
pRD164	<i>bla</i> <i>amyE3'</i> <i>cat</i> <i>P_{xyl}</i> - <i>ftsW</i> <i>amyE5'</i>	This work

erm, erythromycin resistance, *bla*, ampicillin resistance; *spc*, spectinomycin resistance; *mcs*, multiple cloning site; *lacZ*, β -galactosidase ; *lacI*, lactose repressor.

Primers used in this study

Primers	Sequence	
RE05	GACATCGATGACGAAAGGGCCTCGTGATACGC	To insert <i>bla</i> into pGhost9
RE06	CTTACTCGAGGCCACCGCTGGTAGCGGTGG	To insert <i>bla</i> into pGhost9

RE01	GACGCGGCCGCCGAAGATGACTTAAACGAAACG	<i>ponA</i> pGhost9 left flank For primer (NotI)
RE02	CTTAGAATTCCGTTAACACCTTCGCACC	<i>ponA</i> pGhost9 left flank Rev primer (EcoRI)
RE03	GACGAATTCCCGTCACCTTGGGTGATGGC	<i>ponA</i> pGhost9 right flank For primer (EcoRI)
RE04	CTTAGGTACCGCAAGCAAAGAAGTGTGGC	<i>ponA</i> pGhost9 right flank Rev primer (KpnI)
RE07	GACGCGGCCGCCGATTTCAGAACCGGG	<i>pbpD</i> pGhost9 left flank For primer (NotI)
RE08	CTTAGAATTCTAGCCATATCGTA	<i>pbpD</i> pGhost9 left flank Rev primer (EcoRI)
RE09	GACGAATTCTAAAGGATCGGAGGGATATGG	<i>pbpD</i> pGhost9 right flank For primer (EcoRI)
RE10	CTTAAAGCTCTAGATTCTCAGGTTCCGCG	<i>pbpD</i> pGhost10 right flank Rev primer (HindIII)
RE11	GACGCGGCCGCCAGTCTGAAAGGCACCG	<i>pbpF</i> pGhost9 left flank For primer (NotI)
RE12	CTTAGAATTCTCTAAAGGTAGTATGGG	<i>pbpF</i> pGhost9 left flank Rev primer (EcoRI)
RE13	GACGAATTCGCGATTTTGAACTTGAGC	<i>pbpF</i> pGhost9 right flank For primer (EcoRI)
RE14	CTTAAAGCTCTCAAGCACGTACGGCACGT	<i>pbpF</i> pGhost10 right flank Rev primer (HindIII)
AG21B	GGTAACGCCAGGGTTTC	To check insert in pGhost9 by sequencing
AG22	GTGCCACCTGACGTCTAA	To check insert in pGhost9/10 by sequencing
AG23	CACGTTACTAAAGGGAATG	To check insert in pGhost10 by sequencing
AG11	GACGCGGCCGCAGGTTGAGATGTTATGTC	To amplify <i>ponA</i> locus
AG12	GGCACTAGTAAACGGGAGGTTTATTGTG	To amplify <i>ponA</i> locus
AG18	GTTGACTTTATCTACAAGGT	To check insert cloned in pLOSS*
AG19	GGTACCACTAGTTCACCCAC	To check insert cloned in pLOSS*
AG124	CCATCATCTGGTGCAGAAGG	To check <i>B. subtilis</i> <i>ΔponA</i>
AG125	CCGAAAGCCGATTAATTGG	To check <i>B. subtilis</i> <i>ΔponA</i>
AG126	TCTATTGGCGAGTGCTTC	To check <i>B. subtilis</i> <i>ΔpbpF</i>
AG127	AGCATCGACTCCGTATTG	To check <i>B. subtilis</i> <i>ΔpbpF</i>
AG128	TTATTCGGAATGGCGATGGG	To check <i>B. subtilis</i> <i>ΔpbpD</i>
AG129	CCTTAATGGCTGCAGTTGAC	To check <i>B. subtilis</i> <i>ΔpbpD</i>
AG203	GTACGTTCTAGAGTGTTCGTGCTGACTTGC	To amplify erythromycin cassette
AG204	GGGGGATCCTGGAAAGCTGTCAGTAG	To amplify erythromycin cassette
AG200-for	GACAGGCCATGAAATTGGAG	To amplify upstream <i>pbpG</i>
AG114-rev	GCTCTAGACATTGCATCCACAAACGGGTTCC	To amplify upstream <i>pbpG</i>
AG201	CGGGATCCGGACAGAACCCGCAAACGTG	To amplify downstream <i>pbpG</i>
AG202	TGGGAGCTGCACCATAAAGG	To amplify downstream <i>pbpG</i>
AG130	AGAACGTGCTCCGGATTGG	To check <i>B. subtilis</i> <i>ΔpbpG</i>
AG131	CGGCGACTGGAGATGAAAG	To check <i>B. subtilis</i> <i>ΔpbpG</i>
AG338	TTCCATTGTGCCACTCCTTC	To check <i>B. subtilis</i> <i>ΔsigM</i>
AG339	GTTCGCTGTCATCAGTCCC	To check <i>B. subtilis</i> <i>ΔsigM</i>
AG328	AAGTCTAGATAATGAAAGTTAGAACGGAGGGAGAGATG	To amplify <i>ftsW</i>
AG329	ATTAGCGGCCGCGGAATATCCTCCCTGTACAC	To amplify <i>ftsW</i>
AG330	ATGTCTAGATGAAAATGTAAGGCAGGGATAGAATGAG	To amplify <i>rodA</i>
AG331	GATGCGGCCGCAGCCTCTGTAAAGGCTGTCTGC	To amplify <i>rodA</i>