Supplemental Table 1. AbrB does not repress *sinI*

Genotype[a]	P*sinI-lacZ* activity (MU)[b]
Wild type	5.8 ± 0.4
epsH	7 ± 2
abrB epsH	3.8 ± 0.1

a. The following P_{sinI}-*lacZ* containing strains were used FC149, FC321, FC346.
b. β-Galactosidase activity, calculated in Miller Units (MU), was measured from late-exponential phase cells grown in MSgg and is the average of at least three replicates.

Table S2. Strains[a]

Strain	Genotype	
3610	Undomesticated wild strain	
FC13	Δ*epsH*::*tet*; *amyE*::P_{eps}-*lacZ* (cat)	Kearns et al., 2005
FC14	Δ*sinR*::*spec*; Δ*epsH*::*tet*; *amyE*::P_{eps}-*lacZ* (cat)	Kearns et al., 2005
FC26	Δ*slr*::*tet*	
FC37	Δ*slr*::*tet*; Δ*sinR*::*spec*	
FC134	Δ*epsH*::*tet*; *amyE*::P_{yqxM}-*lacZ* (cat)	Chu et al., 2006
FC135	Δ*sinR*::*spec*; Δ*epsH*::*tet*; *amyE*::P_{yqxM}-*lacZ* (cat)	Chu et al., 2006
FC149	*amyE*::P_{sinI}-*lacZ* (cat)	
FC171	Δ*sipW*::*tet*	Chu et al., 2006
FC280	Δ*abrB*::*kan*	
FC315	Δ*yoaW*::*tet*	
FC321	Δ*epsH*::*tet*; *amyE*::P_{sinI}-*lacZ* (cat)	
FC346	Δ*epsH*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{sinI}-*lacZ* (cat)	
FC413	Δ*spo0A*::*spec*; *amyE*::P_{eps}-*lacZ* (cat)	
FC414	Δ*spo0A*::*spec*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC415	Δ*epsH*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{eps}-*lacZ* (cat)	
FC416	Δ*epsH*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC444	Δ*epsH*::*tet*; Δ*spo0A*::spec; Δ*abrB*::*kan*; *amyE*::P_{eps}-*lacZ* (cat)	
FC445	Δ*epsH*::*tet*; Δ*spo0A*::*spec*; Δ*abrB*::*kan*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC480	Δ*epsH*::*tet*; Δ*sinR*::spec; Δ*abrB*::*kan*; *amyE*::P_{eps}-*lacZ* (cat)	
FC481	Δ*epsH*::*tet*; Δ*sinR*::*spec*; Δ*abrB*::*kan*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC488	*amyE*::-112 P_{yqxM}-*lacZ* (cat)	
FC495	*amyE*::-64 P_{yqxM}-*lacZ* (cat)	
FC503	Δ*slr*::*tet*; Δ*abrB*::*kan*	
FC504	Δ*slr*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{yqxM}-*lacZ* (spec)	
FC513	Δ*slr*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{eps}-*lacZ* (cat)	

FC518	*amyE*::P_{slr}-*lacZ* (cat)	
FC519	Δ*epsH*::*tet*; *amyE*::P_{slr}-*lacZ* (cat)	
FC520	Δ*epsH*::*tet*; Δ*sinR*::*spec*; *amyE*::P_{slr}-*lacZ* (cat)	
FC522	Δ*epsH*::*tet*; Δ*abrB*::*kan*; *amyE*::P_{slr}-*lacZ* (cat)	
FC525	Δ*slr*::*mls*	
FC526	Δ*epsH*::*tet*; Δ*slr*::*mls*; *amyE*::P_{eps}-*lacZ* (cat)	
FC527	Δ*epsH*::*tet*; Δ*sinR*::*spec*; Δ*slr*::*mls*; *amyE*::P_{eps}-*lacZ* (cat)	
FC529	Δ*epsH*::*tet*; Δ*sinR*::*spec*; Δ*slr*::*mls*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC536	Δ*slr*::*mls*; *amyE*::P_{slr}-*slr* (cat)	
FC591	*amyE*::P_{yqxM}-*lacZ* (cat)	Chu et al., 2006
FC593	Δ*slr*::*mls*; *amyE*::P_{yqxM}-*lacZ* (cat)	
FC600	Δ*slr*::*mls*; *yqxM* Ω P_{IPTG}-*yqxM-sipW-tasA* (spec)	
ALM16	*amyE*::-100 P_{yqxM}-*lacZ* (cat)	
ALM35	*amyE*::5'site mutation P_{yqxM}-*lacZ* (cat)	
ALM36	*amyE*::3'site mutation P_{yqxM}-*lacZ* (cat)	
ALM37	*amyE*::heptad repeat mutation P_{yqxM}-*lacZ* (cat)	
DS1674	Δ*epsH*::*tet*; Δ*sinR*::*kan*	

a. All strains are derivatives of 3610

Table S3. Primers[a]

Primer	Sequence (5'→ 3')
-499sinI	tggcGAATTCagttttcactgacgtctcaaatatgt
-2sinI	gccaGGATCCagtttctcctcctaaaatacttgttta
Slr1F	tttgcatgtatcatcgagaaaatgca
Slr2R	caattcgccctatagtgagtcgtacggtacaaacggataattcttcca
Slr2_tetR	gaacaacctgcaccattgcaagaacggtacaaacggataattcttcca
Slr3F	ccagcttttgttccctttagtgagtgtctgtccatgaagtcaaatcctt
Slr3_tetF	ttgatccttttttataacaggaattctgtctgtccatgaagtcaaatcctt
Slr4R	aattaatagcggaataccggaagca
slrcomp_F	cgcGGATCCgtattcatagccttcagcctt
slrcomp_R	ccgGAATTCaacgttagccctttaaccgatca
yoaW1_F	agaacaagggcataagaatagaatca
yoaWP2_R	caattcgccctatagtgagtcgttaaaagctaacatcaacatctttttcaa
yoaWP3_F	ccagcttttgttccctttagtgagacggttttcagtttgatcagccaga
yoaW4_R	ttgcgatgaaagtaggaattcatga
Pslr-F1	gtcGAATTCctagacaatcgcatataattctttg
Pslr-R1	gtcGGATCCctagaaattctcctctattcctgtcg
+1slr	gttcCATATGattggaagaattatccgtttgtac
+339slr	aggcCTCGAGgtaagaggcagtttcaggctgtt
-302yqxM	tggcGAATTCatagacaaatcacacattgtttgatca
-26yqxM	gccaGGATCCatcttacctcctgtaaaacactgtaa
-175yqxM	gttcGAATTCtgagcaatactgagcaagactttgt

-160yqxM	gttcGAATTCagcaagactttgtaatatgatga
-126yqxM	gttcGAATTCaacgaacaaaatgagcgatttcggt
-270yqxM	tggcGAATTCtgtcacccttttctttgtttattattac
+14yqxM	gccaGGATCCaacaatcgaaacatatcttacctcct
-21yqxM_R	gccaGGATCCtgtaacttgatatgacaatcgttctc
-244yqxM_F	gttcGAATTCaccaaataataatgggatatgcatttaa
ALM1	gttcCTCGAG agactttgtaatatgatgaaaacattct
ALM2	gttcCTCGAGgtatgaagtgttttttcaatttttagaaatttttggga
ALM3	gttcCTCGAGgtattgctcatttttttcaatttttagaaatt
ALM4	gttcCTCGAGatactgagcaagactttgtaatatgat
ALM5	gttcCTCGAGtttttttcaatttttagaaatttttggga
ECH318	ggGGAATTCatatgtttatgaaatctactggtattgta
ECH336	accgCTCGAGtcatttaaggttttgaagctggttttgga
ECH341	aaactcactggcagcgatatcg
ECH342	tctatttgtttaagagccatatctaag
ECH343	cggttatacaaggattcatcgagc
ECH344	caattgttgcgccgttcacttcat
-246epsA	gttcGAATTCtaatatgaaattctcctctattcctgt
+4epsA	gccaGGATCCtcatgtattcatagccttcagcctt
JSK362	ggcAAGCTTacataaggaggaactactatgagtaaaggagaagaacttttcac
JSK445	ggcGGATCCttatttgtatagttcatccatgccatg

[a]Capital letters designate restriction enzyme sites added to the primers

Supplementary Figure legends

Figure S1. **Effects of AbrB-regulated genes on biofilm formation.** 'Colony' column depicts 16 X images of colonies grown on MSgg semi-solid agar medium for 3 days at 22^{o}C. Scale bar is 1 mm. 'Pellicle' column depicts top-down images of 6-well microtitre plates in which cells have been grown statically in MSgg medium for 3 days at 22^{o}C. Scale bar is 1 cm. The indicated wild type and mutant strains were as follows: wild type (3610), *sipW* (FC171), and *yoaW* (FC315).

Figure S2: Antibodies generated to SinR cross-react with Slr. Western blot using α-SinR as primary antibody. Whole cell lysates of the strains were loaded as follows: wild

type (3610); *slr* (FC26); *sinR slr* (FC37); *sinR* (DS1674). Lanes were loaded and normalized to 0.1 OD600 cell equivalents.

Figure S3. A *sinR* mutation, but not an *abrB* mutation, is partially epistatic to the effects of an *slr* mutation. A) 'Colony' column depicts 16 X images of colonies grown on MSgg semi-solid agar medium for 3 days at 22°C. Scale bar is 1 mm. 'Pellicle' column shows top-down images of 6-well microtitre plates in which cells have been grown statically in MSgg medium for 3 days at 22°C. Scale bar is 1 cm. The indicated wild type and mutant strains were as follows: wild type (3610), *sinR slr* (FC37), *abrB slr* (FC503). B,C) The indicated strains were grown at 30°C in MSgg and β-galactosidase was measured in Miller Units. B) β-galactosidase expression of P_{eps}-*lacZ* in wild type (♦)(FC13), *slr* (■) (FC526), *sinR* (▲)(FC14), *abrB* (□)(FC415), *sinR slr* (X)(FC527), *abrB slr* (○)(FC513). C) β-galactosidase expression of P_{yqxM}-*lacZ* in wild type (♦) (FC134), *slr* (■) (FC528), *sinR* (▲)(FC135), *abrB* (□)(FC416), *sinR slr* (X)(FC529), *abrB slr* (○)(FC504) .

Figure S4. Slr is a DNA-binding protein. EMSA in which radiolabeled DNA's (denoted below each panel) were mixed with purified N-terminal Slr at the indicated concentrations. Sizes of the DNA fragments containing *gfp* and P_{yqxM}, were 741 and 284 base pairs, respectively. The horizontal arrow indicates the position of free probe.

Figure S1

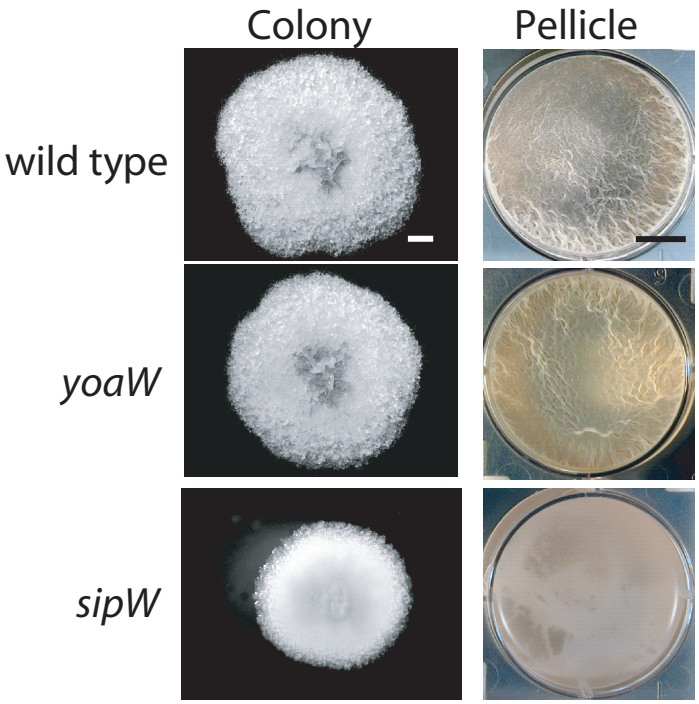

Figure S2

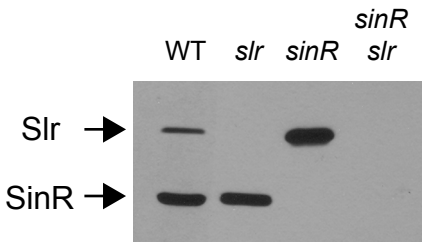

Figure S3

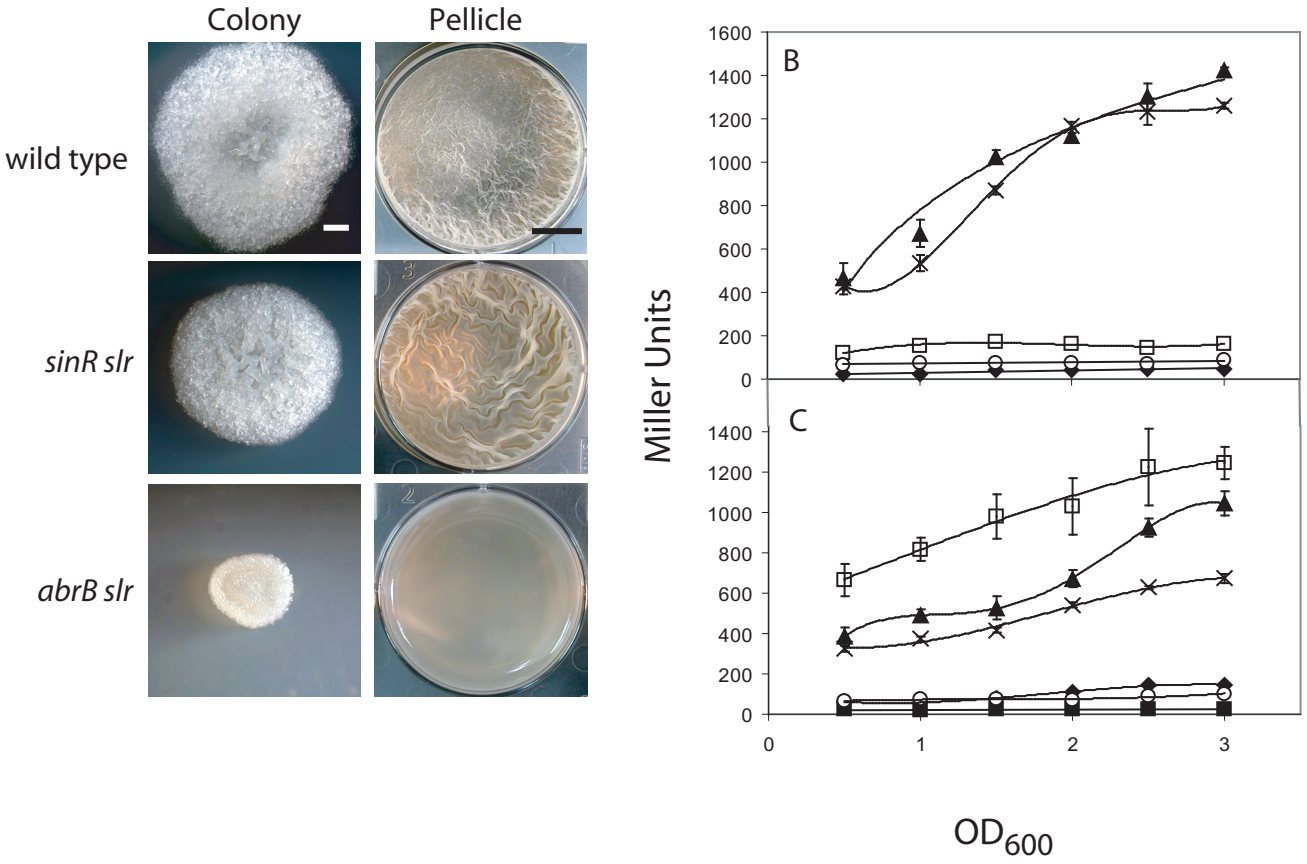
A
Colony
Pellicle
wild type
sinR slr
abrB slr
B
C
Miller Units
1600
1400
1200
1000
800
600
400
200
0
0
1
2
3
OD600

Figure S4