Table S1: Strains, plasmids and primers used in this study

Strains	Description	Ref
S. enterica		
14028s	Wild-type *S. enterica* serovar Typhimurium	[1]
AAD46	14028s *speE::cat*	This work
JY979	14028s Δ*oat*	J . Yeom, personal communication
AAD58	14028s *speE::cat* Δ*oat*	This work
EG6501	14028s *sapABCDF::kan*	[2]
AAD61	14028s *argE::kan*	This work
AAD62	14028s *speB::cat*	This work
AAD65	14028s *ΔspeB*	This work
AAD181	14028s *speE::cat* Δ*oat argA::kan*	This work
AAD212	14028s *ΔspeB argE::kan*	This work
E. coli		
MG1655	Wild-type *E. coli* K12, F- λ-	
AAD85	MG1655 *speE::kan*	This work

AAD86	MG1655 *oat::cat*	This work
AAD87	MG1655 *speC::kan*	This work
AAD88	MG1655 *Δoat*	This work
AAD89	MG1655 *speB::cat*	This work
AAD90	MG1655 *speF::cat*	This work
AAD91	MG1655 *puuA::cat*	This work
AAD92	MG1655 *ΔspeB*	This work
AAD95	MG1655 *ΔspeB speC::kan speF::cat*	This work
AAD96	MG1655 *Δoat speE::kan puuA::cat*	This work

Plasmids	Description	Ref
pJV	Standard vector for DNA supercoiling measurements	[3]
pKD3	Template vector for λred recombination, Cm^R	[4]
pKD4	Template vector for λred recombination, Kan^R	[4]
pSIM6	λred plasmid, heat-inducible	[5]
pCP20	FLP recombinase plasmid, heat-inducible	[4]

Primers	Sequence	Target	Ref

16651	ATTATGTTGCGCCCTTTTTTTACGG GTGTTAACAAAGGAGGTATCAACC CGTGTAGGCTGGAGCTGCTTC		This work
16652	AGATTATTAAAGCCATGCAGTTTC AGTTTTTTCAATTTCTTATCTTCTCC CATATGAATATCCTCCTTAG	*speE*, *S.* Typhimurium	This work
16698	ATAATTAATGCATGAATATTGATA CTATCATGACCTGAGGTGTGTCAA CAGTGTAGGCTGGAGCTGCTTC		This work
16699	CTACAAGACGGGGTAGGCCCGGTA AACATCACGTCACCGGGCAATATG CACATATGAATATCCTCCTTAG	*argE*, *S.* Typhimurium	This work
16702	CTAACGACGCGGGAGGGTTTTTTTA TATTGACTAAGAAGAGGTTTTTGCC GTGTAGGCTGGAGCTGCTTC		This work
16703	CATCAATCAGCTGTAGGCCGGATA AGCGCAGCGCCATCCGGCAAAAC AACCATATGAATATCCTCCTTAG	*speB*, *S.* Typhimurium	This work
16832	AACGACGCGGAAGGGTTTTTTTAT ATCGACTTTGTAATAGGAGTCCATC CGTGTAGGCTGGAGCTGCTTC	*speB, E. coli*	This work

	CGCATCCGACATTAATGGCACGTTT		
16833	TACCCGTGCGCATCGCATCTGGTGC		This work
	CATATGAATATCCTCCTTAG		
	ATTATGTTGCGCCCTTTTTTTACGG		
16834	GTGTTAACAAAGGAGGTATCAACC		This work
	CGTGTAGGCTGGAGCTGCTTC		
	AGATTATTAAAGCCATGCAGTTTC	*speE, E. coli*	
16835	AGTTTTTTCAATTTCTTATCTTCTCC		This work
	CATATGAATATCCTCCTTAG		
	TCATTCGAGAAATTGAGGACCTGC		
16836	TATTACCTAAAATAAAGAGATGAA		This work
	AAGTGTAGGCTGGAGCTGCTTC		
	CGTCAGTATGGTTAACTGAACGAC	*speF, E. coli*	
16837	GCCCATTTTGTTCGATTTAGCCTGA		This work
	CCATATGAATATCCTCCTTAG		
	GTTTTCCACCTTGTCCGGTATTCTTA		
16838	CTTCCCCGAAACGGGTTTGCGCTTG		This work
	TGTAGGCTGGAGCTGCTTC		
	GGTCGCCAGAAGGTGACCCGTTTTT	*speC, E. coli*	
16839	TTTATTCttaCTTCAACACATAACCC		This work
	ATATGAATATCCTCCTTAG		
16840	TGCAATACTTAAATCGGTATCATGT		
	GATACGCGAGCCTCCGGAGCATAT	*oat, E. coli*	This work

	TGTGTAGGCTGGAGCTGCTTC		
	GTCGTATAAAAAGATCGGATGGCG		
16841	ACGTCGTATCGCCATCCGATTTGAT		This work
	ACATATGAATATCCTCCTTAG		
	ATATTTTACGCTTTGATAACGAGCG		
16842	GAAAACAAACCAAAGGCGAAGAA		This work
	TCGTGTAGGCTGGAGCTGCTTC		
	ATGTCAGGCCTGGCTCCGCTCAGG	*puuA, E. coli*	
16843	CCGATGAAACAACCCCGCAAGGG		This work
	GTACATATGAATATCCTCCTTAG		

References

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