Table S1. Strains and plasmids used in this study.

Strain	Description	Source or Reference
MG1655	Wild-type *E. coli* K-12	D. Jin (NCI)
DJ480	MG1655 Δ*lacX₇₄*	D. Jin (NCI)
CS100	DJ480 *sgrS*::*cat-sacB*	[1]
CS104	CS100 Δ*sgrS*	[1]
JH111	CS104 λattB::*lacI^q* - $P_{N25}tet^R$-spec^R	[2]
CS175	JH111 Δ*ptsG*::*cat*	This study
JH258	JH111 *ptsG'-'lacZ*	[2]
DB138	JH111 Δ*hfq*::*cat*	This study
DB148	JH111 *rne131* zce-726::Tn10	This study
DB151	DB138 *ptsG'-'lacZ*	This study
LT2	Wild-type *Salmonella enterica* serovar Typhimurium LT2	Slauch, J.M (UIUC)
DB111	LT2 Δ*sgrS*::*tet*	This study
DB140	LT2 *sgrS1*	This study
DB142	LT2 *sgrS2*	This study
DB143	LT2 *sgrS3*	This study
DB153	LT2 *sgrT-3XFLAG*	This study

Plasmids	Genotype	Primers	Reference
pBRCS12	Vector	N/A	[1]
pBRCS22	P_{LlacO}-*sgrS*	N/A	[1]
pBRCS27	P_{LlacO}-*sgrS1*	N/A	[1]
pBRCS30	P_{LlacO}-*sgrS2*	N/A	[1]
pBRCS31	P_{LlacO}-*sgrS3*	N/A	[1]
pBRDB12	P_{LlacO}-*sgrS19*	O-DB199 O-DB200	This study
pLCV1	P_{LlacO}-*sgrS* (*E. coli*)	N/A	[1]
pZADB01	P_{Ltet}-*sgrS*	O-DB151 O-DB152	This study
pZADB05	P_{Ltet}-*sgrS14*	O-DB169	This study
pZADB12	P_{Ltet}-*sgrS19*	O-DB188 O-DB189	This study
pZADB18	P_{Ltet}-*sgrS20*	O-DB197 O-DB198	This study
pZADB19	P_{Ltet}-*sgrS21*	O-DB199 O-DB200	This study
pZADB20	P_{Ltet}-*sgrS22*	O-DB201 O-DB202	This study
pZADB21	P_{Ltet}-*sgrS23*	O-DB203 O-DB204	This study
pZEDB03	P_{LlacO}-*ptsG'-'gfp*	O-DB163 O-DB164	This study
pZEMB11	P_{LlacO}-*manX'-'gfp*	MBP2L MBP2R44	This study

| pZEMB15 | P$_{LlacO}$-*yigL'-'gfp* | MBP16F2 MBPR41 | This study |

1. Wadler, C.S. and C.K. Vanderpool, *Characterization of homologs of the small RNA SgrS reveals diversity in function.* Nucleic Acids Res, 2009. **37**(16): p. 5477-85.
2. Rice, J.B. and C.K. Vanderpool, *The small RNA SgrS controls sugar-phosphate accumulation by regulating multiple PTS genes.* Nucleic Acids Research, 2011. **39**(9): p. 3806-3819.