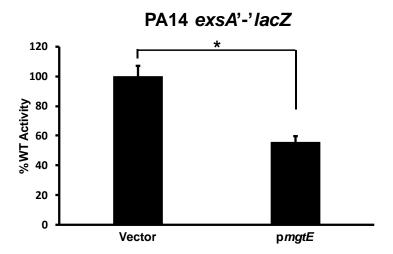
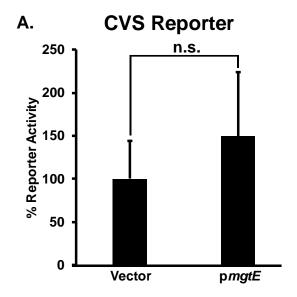
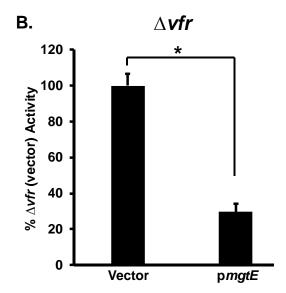


Supplemental Figure 1. Measurement of mgtE transcript levels in PA103 and PA14. mgtE levels were quantified by qRT-PCR in PA103 and PA14 containing either vector control or pmgtE. fbp was used as a normalization control transcript. *p<0.05. These fold increases are on the same order of magnitude as seen after antibiotic treatment or under magnesium limitation conditions (29, 30).

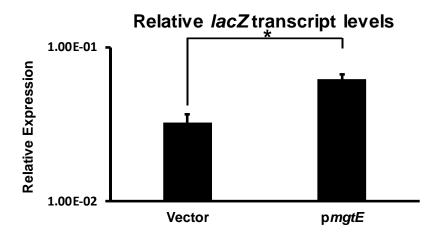


Supplemental Figure 2. mgtE expression represses exsA translation in P. aeruginosa PA14. exsA translational reporter strain PA14 exsCEBA'-'lacZ, with either vector control or pmgtE were assayed under T3SS inducing (+EGTA) conditions for beta-galactosidase activity. Percent activity was calculated considering the lacZ activity from the respective strain with the blank vector as 100%. The reporter constructs were transcribed from a constitutive P_{lacUV5} promoter. *p<0.05.

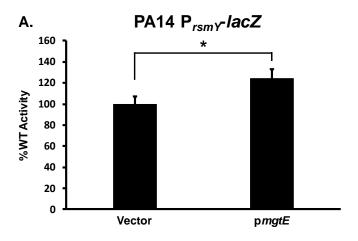


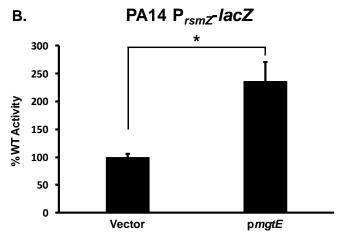


Supplemental Figure 3. The CVS cascade is not required for mgtE-mediated inhibition. (A) mgtE expression does not repress CVS reporter activity. PA103 CVS reporter strains with either vector control (Vector) or pmgtE were assayed for beta-galactosidase activity from the CVS reporter under T3SS inducing conditions (+EGTA). n.s.=not significant. (B) mgtE inhibits T3SS gene transcription in a Δvfr background. Δvfr strains with either vector control (Vector) or pmgtE were cultured under T3SS inducing (+EGTA) conditions and assayed for beta-galactosidase activity from the P_{exsD} -lacZ reporter construct. Percent activity was calculated considering the P_{exsD} -lacZ activity in the Δvfr strain with blank vector as 100%. *p<0.005.



Supplemental Figure 4. *mgtE* expression does not repress *exsA* transcript stability. mRNA was isolated from the *exsA'-'lacZ* translational reporter strain with either the blank vector or with p*mgtE* and *exsA'-'lacZ* transcript stability was analyzed by qRT-PCR. *lacZ* transcript abundance was normalized to that of the control transcript *fbp*. **p*<0.05.





Supplemental Figure 5. mgtE expression affects rsm transcription in P. aeruginosa PA14. rsmY and rsmZ transcriptional reporter strains (A) PA14 P_{rsmY} -lacZ and (B) PA14 P_{rsmZ} -lacZ, with either vector control or pmgtE were assayed under T3SS inducing (+EGTA) conditions for beta-galactosidase activity. Percent activity was calculated considering the lacZ activity from the respective reporter strains with the blank vector as 100%. *p<0.05.