

**(A) PWM1-training**

A	-0.788457	-0.200671	-0.200671	0.969401	-0.788457	0.435318
C	-0.788457	-0.788457	-2.3979	-2.3979	0.820981	0.167054
G	-0.788457	-2.3979	0.820981	-2.3979	-0.788457	-0.788457
T	0.969401	0.969401	-0.200671	0.167054	-0.200671	-0.200671

**(B) PWM2-training**

A	-2.3979	1.21302	-0.788457	0.820981	0.646627	-2.3979
C	-2.3979	-2.3979	-0.200671	-2.3979	-0.200671	-2.3979
G	-0.788457	-2.3979	-0.788457	-0.788457	-0.200671	-2.3979
T	1.21302	-0.788457	0.820981	0.167054	-0.788457	1.31568

**(C) PWM3-training**

A	0.127833	-0.893818	-0.257829	-0.893818	-0.893818	-0.257829	-0.526093	-0.526093	-0.04652	-0.893818	-0.526093	-0.526093	-0.257829	-0.893818	-1.4816	-0.526093	-1.4816	-0.526093	-0.526093	-0.893818	-0.257829	0.127833	-0.526093	0.127833	-0.04652	0.276253	-0.257829	0.127833	0.405465		
C	-0.04652	0.405465	0.405465	-0.04652	0.276253	0.127833	0.405465	-0.04652	-0.04652	-0.04652	-0.257829	-0.257829	0.127833	0.127833	-0.526093	0.276253	-0.257829	0.127833	-3.09104	-0.257829	-0.893818	-1.4816	-0.257829	-1.4816	-0.893818	-0.526093	-0.893818	-0.257829	-0.04652	0.127833	-0.526093
G	-0.04652	0.127833	-0.04652	0.276253	0.127833	-0.257829	-0.257829	0.405465	0.405465	0.276253	0.276253	0.276253	-0.04652	-0.257829	0.519875	0.405465	0.62253	0.519875	0.276253	-0.893818	-1.4816	-0.526093	-1.4816	-0.893818	-0.257829	-1.4816	0.127833	-0.893818	0.276253	-0.257829	-0.04652
T	-0.04652	-0.04652	-0.257829	0.276253	0.127833	0.276253	0.127833	-0.04652	-0.526093	0.276253	0.276253	0.276253	0.127833	0.405465	-0.04652	-0.257829	0.127833	-0.526093	0.879249	0.800778	1.01983	1.01983	0.800778	0.800778	0.800778	0.71562	0.405465	0.405465	-0.04652	-0.04652	-0.04652

**Figure S1.** Position weight matrices constructed using previously defined transcription signal data for ten known *E. coli* K12 MG1655 sRNA genes (see Table S1 for details). **(A)** PWM1 constructed using -35 promoter box data. **(B)** PWM2 constructed using -10 promoter box data. **(C)** PWM3 constructed using Rho-independent terminator box data. The above three training set-derived PWM were used in the analyses described in this study.