Category of PBM motif	total # TFs	perturbation exists*	sig. effect on targets**	% sig.
All motifs	89	79	44	55.7
Different from literature PWM	17	17	10	58.8
Different from literature PWM or consensus	20	20	12	60.0
No previous binding information	30	24	13	54.2
Novel binding motif (all new or different)	50	44	25	56.8
Closely matches literature PWM	31	31	17	54.8
Matches literature PWM or consensus	39	35	19	54.3

Category of PBM motif	total # TFs	Genetic interactor perturb.***	sig. effect on targets**	% sig.
TF has no self-perturbation expression data	10	5	3	60.0

* # of TFs for which expression data exist for a mutation, deletion, or overexpression of that TF

** significant enrichment of predicted TF targets among genes whose expression is affected by perturbation

*** # of TFs for which a genetic interactor has expression data for a mutation, deletion, or overexpression

Table S7. This table summarizes the effect of mutating or deleting a TF (using expression data available from the literature) on the PBM-predicted target genes of that TF. TFs are broken down into different motif categories to emphasize the similar results for novel motifs as compared to known motifs.