Noise Data
(Newman et al., fluorescent variance under rich conditions, DM values used, see Methods)

\[ \text{Box-Cox Transform} \]
\[ \rightarrow \text{Shapiro-Wilk Test} \]
\[ \text{(test for normal distribution)} \]
\[ \rightarrow \text{Multiple Regression Model} \]
\[ \text{(factors include Y2H PPIs, ACMS PPIs, TATA box, self interaction,essentiality, and plasticity; see Methods and Table 1)} \]
\[ \rightarrow \text{ANOVA} \]
\[ \text{(impact of each factor was determined by performing an ANOVA on nested models, see Table 1 for significance values)} \]

Plasticity Data
(genome-wide mRNA expression microarray data from 27 independent experiments derived from 11 papers downloaded from SGD)

\[ \text{Box-Cox Transform} \]
\[ \rightarrow \text{Loess Regression} \]
\[ \text{(performed a loess regression against protein abundance, all following analyses were done on residuals to this regression)} \]
\[ \rightarrow \text{Shapiro-Wilk Test} \]
\[ \text{(test for normal distribution)} \]
\[ \rightarrow \text{Multiple Regression Model} \]
\[ \text{(factors include Y2H PPIs, ACMS PPIs, TATA box, self interaction, essentiality, and noise; see Methods and Table 2)} \]
\[ \rightarrow \text{ANOVA} \]
\[ \text{(impact of each factor was determined by performing an ANOVA on nested models, see Table 2 for significance values)} \]