

## General Motif Characteristics:

### Top Similar Looking Motifs:

HCMC.STAT2_f1.wm	0.000
ENCODE.STAT2	0.019
HCMC.IRF2_f1.wm	0.073
UNIPROBE.Isgf3g_primary.wm	0.077
HCMC.IRF3_f1.wm	0.079
UNIPROBE.Irf3_primary.wm	0.080
HCMC.IRF8_si.wm	0.080
HCMC.IRF1_si.wm	0.090
ENCODE.PRDM1	0.113
JASPAR.IRF1.wm	0.117

### Statistics:

- Motif name: HCMC.STAT2\_f1.wm
- Enrichment: 3.16704450062
- log-Likelihood Ratio: 576.399409403
- Area under precision recall curve: 0.2553

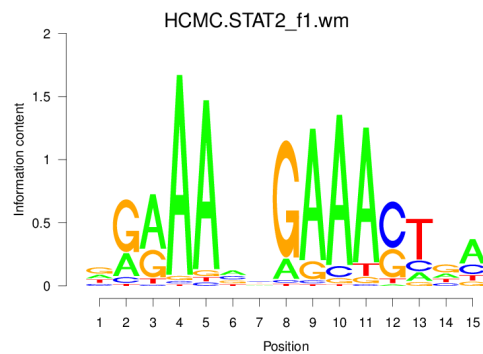


Figure 1: Logo of Weight Matrix

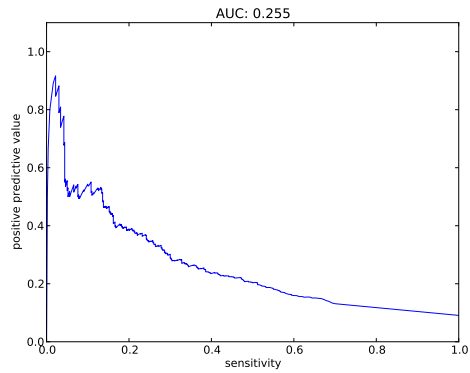


Figure 2: Precision and Recall curve

## Statistics for TFBS - Peak Centering and Peak Posterior - Peak Height Correlation:

### 0.1

Overall statistics:

- Number of true peaks out of total number of peaks: 3039/12571
- 24.17 percent are true.
- Cut-off: minimum summed posterior of 0.20
- Peak plots contain TFBS of posterior  $\geq 0.20$

Statistic for centering of TFBSs at peak centers:

- Enrichment at binding sites: 1.4174

Correlation between peak Z-score and number of binding sites at peak: 0.0135

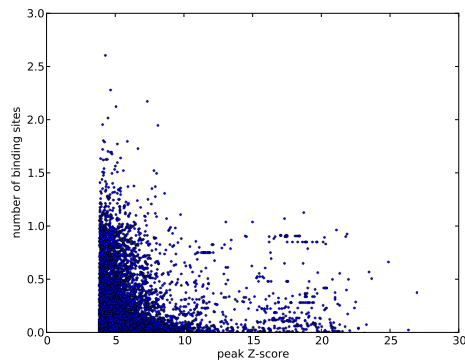


Figure 3: Scatter plot of peak Z-score versus number of binding sites at peak

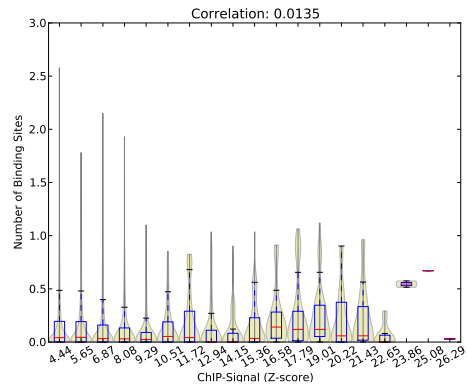


Figure 4: Violin plot of peak Z-score versus number of binding sites at peak

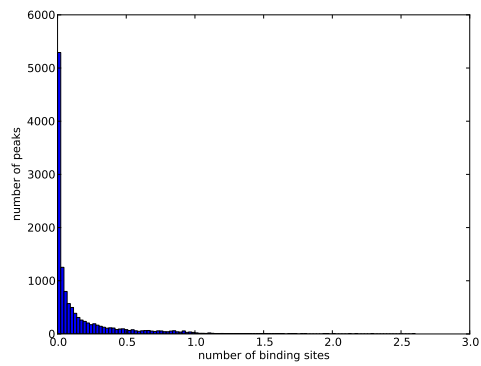


Figure 5: Histogram of number of binding sites at peaks

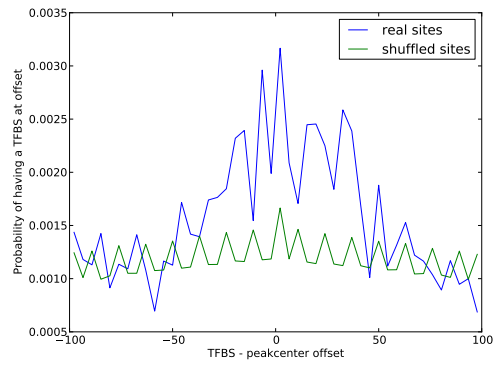


Figure 6: Histogram of distances of TFBS to its nearest peak center

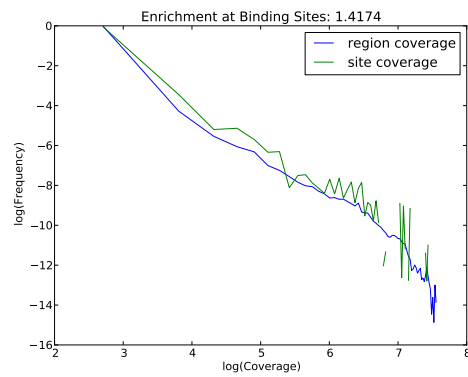


Figure 7: Histograms of coverage at sites and in total regions