



Supplemental Fig. S3: Epigenetic state at TSS and distal regions. (A) ROC plot to evaluate the accuracy of the logistic regression on the prediction of DEG using Mean or CV of variable histone modifications. The coefficients of each model parameter are shown to the right. Mean histone mark signal strength was more heavily weighted than variation of the signal. (B) ChIP-qPCR validating the dynamic sites of AE, PE and RE. Column: Mean \pm SD, N=4. (C) Violin plot comparing the number of active enhancers within 100 kb of expressed DEGs and non-DEGs. The Wilcoxon rank sum test p-value is shown. (D) Enrichment of members of DEG clusters G1-G7 among PEs (right) or REs (left) that were present at a single time point (H0, H1, H4, or H12). We did not observe an obvious temporal relationship between regulatory elements and DEGs. Enrichment P-values were calculated by Fisher's exact test. (E) Location of REs with respect to genome annotations. Stable REs (H0-1-4-12) were more commonly found at promoters and CpG regions, whereas dynamic REs were more often found at distal and repetitive genomic regions.