

Supplementary table 5: Alternative promoter regulatic

	Number of genes	pearson correlation
All promoter associated TC pairs	4814	0.558
TC pair <10 base separation	621	0.637
TC pair <50 base separation	1539	0.627
TC pair <100 base separation	2204	0.627
TC pair >=100 base separation	2610	0.512
TC pair >=500 base separation	600	0.373
TC pair >=2kb separation	244	0.219

Supplementary table 6

<u>Platform</u>	<u>library</u>	<u>TSS Clusters <= 10 bases wide</u>	<u>TSS Clusters >10 bases wide</u>
454 amplified CAGE	THP1 - FANTOM4 replicate 1	930 (19%)	4058 (81%)
454 amplified CAGE	THP1 - FANTOM4 replicate 2	1324 (27%)	3638 (73%)
454 amplified CAGE	THP1 - FANTOM4 replicate 3	1096 (22%)	3890 (78%)
454 amplified CAGE	THP1 - FANTOM4 combined	822 (16%)	4177 (84%)
Helicos unamplified CAGE	THP1 - Helicos replicate 1	755 (15%)	4245 (85%)
Helicos unamplified CAGE	THP1 - Helicos replicate 2	708 (14%)	4292 (86%)
Helicos unamplified CAGE	THP1 - Helicos replicate 3	725 (14%)	4275 (85%)
Helicos unamplified CAGE	THP1 - Helicos combined	729 (15%)	4271 (85%)
454 with PCR bias correction	THP1 - FANTOM4 replicate 1	802 (16%)	4187 (84%)
455 with PCR bias correction	THP1 - FANTOM4 replicate 2	1161 (23%)	3801 (77%)
456 with PCR bias correction	THP1 - FANTOM4 replicate 3	982 (20%)	4003 (80%)
Helicos unamplified CAGE	HeLa - Helicos replicate 1	893 (18%)	4105 (82%)
Helicos unamplified CAGE	HeLa - Helicos replicate 2	827 (17%)	4173 (83%)
Helicos unamplified CAGE	HeLa - Helicos replicate 3	801 (16%)	4198 (84%)
Helicos unamplified CAGE	HeLa - Helicos combined	811 (16%)	4189 (84%)

Supplementary table 7. Average CAGE cDNA yields for 5ug totalRNA starting with or without Actinomycin D in reverse transcription reaction.

Source RNA	Actinomycin D concentration (mg/ml)	Average cDNA yield (ng)	Average ACTB Ct*
THP-1	0	6.29	14.21
THP-1	0.1	1.21	15.84
THP-1	0.2	ND	16.28
THP-1	0.4	ND	17.01

All preparation were duplicated.

ND: not detectable by OliGreen fluorescence assay

* Typical Ct value of cDNA from blank source is >30.