

Table S4: Overall Enrichment for mPSRs in ENCODE regions

Regions	# Features of mPSRs	# Features of Agilent 244K	Chi-Square Test		
			P-value	Odds Ratio	FDR(Corrected p-value)
H3K9ac	274	154700	<0.0001	0.75	0.0002
H3K27ac	203	129540	<0.0001	0.75	0.0002
H3H4me1	344	168840	0.0031	0.85	0.0062
H3K4me2	320	174521	<0.0001	0.78	0.0002
H3K4me3	286	166666	<0.0001	0.73	0.0002
H3K9me1	361	144508	0.9611	0.96	0.9961
H3K20me1	467	184525	0.936	0.99	0.9961
H3K27me3	371	152724	0.6472	0.95	0.3208
H3K36me3	340	135609	0.9961	1.03	0.9961
Polycomb repression	180	64857	0.2717	1.03	0.4075
CTCF	139	72387	0.0057	0.78	0.0097
DNAseI	124	85540	<0.0001	0.63	0.0002