

### Additional file 13: Table S9

Histone marks	250bp with high FPKM	250bp with low FPKM	500bp with high FPKM	500bp with low FPKM	1000bp with high FPKM	1000bp with low FPKM
H4K12ac	0.00186**	0.00006**	0.00949**	0.12010	0.61230	0.00205**
H3K4ac	0.00051**	0.00025**	0.09857	0.45210	0.70690	0.39360
H4K16ac	0.00456**	2.73e-05**	0.2083	0.5154	0.356	0.1405
H3K4me2	0.00036**	0.00252**	0.12010	0.00413**	0.75310	0.70690
H3K36me3	2.28e-06**	2.64e-09**	0.24680	0.00413**	0.22970	0.01997*
<b>Nucleosome occupancy</b>	1.48e-07**	0.00036**	0.71920	0.45210	0.61230	0.61230
H3K27me3	0.07275	5.35e-06**	0.58200	0.65060	0.61230	0.00560**
H3K27ac	0.56230	0.08978	0.45210	0.65060	0.75310	0.43360
H3K9ac	0.07275	0.02292	0.12010	0.65060	0.08160	0.39360
H3K23ac	0.11	0.4326	0.9696	0.4521	0.1405	0.09391
H3K4me3	0.11000	0.08978	0.33920	0.00024**	0.06102	0.07067
H3K9me1	0.04679*	0.08978	0.96960	0.00124**	0.14050	0.18080
H3K9me3	0.11000	0.07275	0.51540	0.02622*	0.35600	0.91020

**Note:** \* $p < 0.05$  representing significant change.

\*\* $p < 0.01$  representing extremely significant change.