

Supplementary Table

Table S1a. Genomic Feature of 5-mC in breast cancer and normal

Genomic Features tissues		Tumour (IDC) (n>=10) (%)	Paired Normal (n>=10) (%)	DCIS (n=5) (%)	Apparent normal (n=5) (%)
Promoters	Promoter(>1kb)	8.24	6.09	7.41	6.34
	Promoter(1-2kb)	4.17	3.44	3.76	3.3
	Promoter(2-3kb)	3.68	3.15	3.31	2.88
UTRs	5'UTR	1.69	1.32	1.54	1.4
	3'UTR	4.35	3.3	3.89	3.32
Gene body	1st exon	0.51	0.4	0.46	0.42
	Other exon	9.41	7.98	8.52	7.72
	1st intron	9.72	9.7	9.44	9.57
	Other intron	24.26	24.64	24.42	24.43
Distal intergenic	Downstream (>300kb)	0.16	0.12	0.12	0.12
	Distal intergenic	33.81	39.86	37.13	40.5

Table S1b. Genomic Feature of 5-hmC in breast cancer and normal tissues

Genomic features		Tumour (IDC) (n>=10) (%)	Paired Normal (n>=10) (%)	DCIS (n=5) (%)	Apparent normal (n=5) (%)
Promoters	Promoter(>1kb)	24.89	30.89	48.74	6.25
	Promoter(1-2kb)	2.46	2.3	1.88	
	Promoter(2-3kb)	2.6	2.69	2.06	6.25
UTRs	5'UTR	1.46	1.57	0.97	
	3'UTR	3.64	3.99	2.64	
Gene body	1st exon	0.9	0.88	1.12	12.5
	Other exon	5.8	6.52	3.44	25
	1st intron	7.73	6.63	4.61	6.25
	Other intron	14.37	12.66	7.02	18.75
Distal intergenic	Downstream (>300kb)	0.08	0.08	0.13	
	Distal intergenic	35.98	31.8	27.4	25