

Table 2: List of the top hypomethylated genes with a median methylation difference at least -0.40 in HCC compared to normal samples.

CpG site	Median difference	95% CI		FDR-q-value	Gene	Name	Chromosome
cg06806711	-0.46	-0.53	-0.36	< 0.001	MS4A1	membrane-spanning 4-domains, subfamily A, member 1	11q12-q13.1
cg25856811	-0.46	-0.54	-0.35	< 0.001	SPRR3	membrane-spanning 4-domains, subfamily A, member 1	11q12-q13.1
cg09120035	-0.46	-0.55	-0.32	< 0.001	CYP11B1	cytochrome P450, family 11, subfamily B, polypeptide 1	8q21-q22
cg06627364	-0.45	-0.51	-0.36	< 0.001	MGC4677	long intergenic non-protein coding RNA 152	2p11.2
cg04505023	-0.44	-0.55	-0.30	< 0.001	SPRR1A	small proline-rich protein 1A	1q21-q22
cg17725968	-0.43	-0.54	-0.25	< 0.001	PDHA2	pyruvate dehydrogenase (lipoamide) alpha 2	4q22-q23
cg11009736	-0.43	-0.51	-0.34	< 0.001	MARCO	macrophage receptor with collagenous structure	2q14.2
cg15320474	-0.43	-0.53	-0.32	< 0.001	UBD	ubiquitin D	6p21.3
cg18780284	-0.42	-0.51	-0.33	< 0.001	SPRR1B	small proline-rich protein 1B	1q21-q22
cg23595927	-0.41	-0.52	-0.27	< 0.001	MYL5	myosin, light chain 5, regulatory	4p16
cg18675600	-0.41	-0.49	-0.26	< 0.001	PTP4A3	protein tyrosine phosphatase type IVA, member 3	8q24.3
cg08878744	-0.41	-0.49	-0.29	< 0.001	LCE1B	late cornified envelope 1B	1q21.3
cg07592353	-0.40	-0.49	-0.25	< 0.001	GABRA6	gamma-aminobutyric acid (GABA) A receptor, alpha 6	5q34
cg08763351	-0.40	-0.52	-0.28	< 0.001	SPRR4	small proline-rich protein 4	1q21.3
cg10501065	-0.40	-0.50	-0.26	< 0.001	IGF2AS	insulin-like growth factor 2 antisense (non-protein coding)	11p15.5

