

Table 5. Partial list of hypermethylated CpG islands as candidate markers for stage I lung squamous cell carcinoma *

Location in hg18			Position relative to known genes			
Chr	Start	End	Upstream	Promoter	Intragenic	Downstream
chr1	47682300	47683607				FOXD2
chr1	63554983	63563059			FOXD3	
chr1†	90955098	90955445		BARHL2		
chr1	90963078	90965392	BARHL2			
chr1	110411789	110414826			ALX3	
chr1	119350668	119352843				
chr2†	19419271	19421884		OSR1		
chr2	20733488	20734761			GDF7	
chr2	24251150	24251698		FLJ30851		
chr2†	63134539	63134851			OTX1	EHBP1
chr2†	66525936	66527140			MEIS1	
chr2	66662073	66662908				MEIS1
chr2	80383189	80384357			LRRTM1	
chr2†	176652334	176656692	HOXD13		EVX2	
chr2	176672309	176673755	HOXD11		HOXD12	HOXD13
chr2	176689012	176689669	HOXD10			HOXD11
chr2	176690354	176690648	HOXD9		HOXD10	HOXD11
chr2	176694671	176696537	HOXD8	HOXD9		HOXD10
chr2	176737660	176738187			HOXD3	
chr3	148591199	148594390			ZIC4	
chr4	1386292	1391730				FLJ34443
chr4†	4910534	4911092	MSX1			
chr4	174686622	174688044		HAND2		
chr5†	2791954	2794237				IRX2
chr5	3647468	3656054			IRX1	
chr5	54554812	54555385				UNG2
chr5	72629904	72631564				
chr5	140790679	140792801		PCDHGA12		
chr6	10489545	10490340				
chr6†	10498025	10498551				TFAP2A
chr6	10530308	10530634	TFAP2A			MGC40222
chr6	101953488	101953856		GRIK2		
chr6†	108592365	108597232		NR2E1		
chr7†	27170441	27172987	HOXA7	HOXA9		HOXA10
chr7	27219207	27220360				
chr7	121743780	121744577				CADPS2
chr7	153214251	153216599		DPP6		
chr7	154857319	154860615				
chr8	100054910	100056159				
chr9	959530	963276	DMRT3			DMRT1
chr9	125813068	125820774		LHX2		
chr10	94170296	94170734				

chr10	118882152	118882629			VAX1	
chr12	52726910	52727810	HOXC4		HOXC4	
chr12	60871036	60872535			FAM19A2	
chr13	94152191	94153185				SOX21
chr14	36205265	36206099			PAX9	
chr14	56344361	56346593			OTX2	
chr14	60045486	60047933		SIX6		
chr15	77511155	77512698		KIAA1024		
chr15	87750378	87752134				
chr15	87753276	87754065				
chr18	53170706	53172603		ST8SIA3		
chr18†	53254153	53259851			ONECUT2	
chr20	54012011	54014085		CBLN4		
chr21	36990064	36995761		SIM2		
chrX	136459743	136460985				

* These CpG islands were methylated in all five stage I SCCs according to the Agilent CpG island microarray data.

† Methylation status of these CpG islands was verified by COBRA assays.