Supplementary Table 1. Primers for sodium bisulfite sequencing and chromatin immunoprecipitation (ChIP) PCR assay

Amplicon	Forward primer	F seq	Reverse primer	R seq	Temp	MgCl	PCRx	Cycles	Product size
Sodium Bisulfite Sequencing Primers									
5' CpG Island									
First round	NEC63F	TAT ATT TAA ATT AAT TTT GGA TAT ATT TAG GTA AG	NEC65R	TCC TAC ACC ACT TCT TAT AAC TAC	56	1.5		35	842
Second round	NEC63F	TAT ATT TAA ATT AAT TTT GGA TAT ATT TAG GTA AG	NEC64R	CTT TCA CCA TAT CTA AAA ACC AAA TAA TC	56	2.0		35	809
Alternate first round	NEC92F	GTT TGT ATA AAG TTT ATG TTT ATA AAG TTG TTT AG	NEC65R	TCC TAC ACC ACT TCT TAT AAC TAC	57	2.0		35	855
Alternate second round	NEC95F	TTT GGG ATT TTT ATA TTT AAT TTA ATT TTG GAT A	NEC64R	CTT TCA CCA TAT CTA AAA ACC AAA TAA TC	57	2.0		35	822
3' CpG Island									
First round	NEC126F	GAA GGT AGA AAA ATA ATG GAA GTA AAA ATT TG	NEC128R	CTT CAC CCA TAC TCA TCA TCA CTA	58	1.5		35	563
Second round	NEC127F	GAG TTT TTT TTT GTT ATT TAG GTT GGA G	NEC128R	CTT CAC CCA TAC TCA TCA TCA CTA	58	1.5		35	350
ChIP Primers									
A	NEC122F	GGC CTA TTG CTA TGC CTG TC	NEC123R	CAC AGA GGC TGT CTC CCT TC	60	2.5		33-35	200
B	NEC80F	TCC TCT CAC TGG TTC GCA TA	NEC81R	TGG GCT GAG AAG ATC TAG GG	55	2.0		33-35	219
C	NEC87F	CCT GCC CTA GAT CTT CTC AGC	NEC34R	GGG GCC TCG GCT GCA AAG TTA GG	60	2.0	2X	33-35	352
D	NEC21F	GCG CAG ACA TGT CAG AAC AA	NEC69R	TTG ACC AGC ACG TAC CAC AT	50	3.0	3.5X	33-35	343
E	NEC16F	ACG AGC TCA TGT GGT ACG TG	NEC17R	GAA GGT GGA GTG CTT CTT CC	50	2.5	2X	33-35	376
F	NEC20F	GCC CGA ATA CGA GTT CTT TT	NEC6R	CAC ACA TCA TCA GTC CCA TA	55	2.5		33-35	540
G	NEC120F	TGT GAG CAC TTG GCA CAC TT	NEC121R	GCG ATT TTT CCC ACC CTA TT	50	2.0		33-35	211
H	NEC137F	GGC AGA AAA ACA ATG GAA GC	NEC138R	TTG TTT CTT TGT ACT ATT TTT CCT TTC	60	2.5		33-35	117
SNRPN A	SNRPN AF	GAT GCT CAG GCG GGG ATG TGT GCG	SNRPN AR	GCT CCC CAG GCT GTC TCT TGA GAG	60	2.5		33-35	172
GAPDH	GAPDH F	GCA TCA CCC GGA GAA ATC GG	GAPDH R	GTC ACG TGT CGC AGA GGA GC	60	2.5		33-35	268
CEN16	CEN16 F	GTC TCT TTC TTG TTT TTA AGC TGG G	CEN16 R	TGA GCT CAT TGA GAC ATT TGG	55	2.5		33-35	207

ChIP Oligo Probes		
A	NEC176	cac cac caa aag ccc ttt ta
B	NEC177	gag aag ggg cca gtt taa gg
C	NEC178	gca aag tta ggg tcg ctc ag
D	NEC68	GAG CGA CCC TAA CTT TGC AG
E	NEC14	ATG CTC CTG CAC CAC TTC TT
F	NEC2	ATT TGC ATC TTG GTG ATT T
G	NEC8	GGT GGG GTT GTA TAT GTG TT
H	NEC179	ttg aaa caa gtt ttt gct tcc a
SNRPN A	SNRPN A O	tga cgc atc tgt ctg agg ag
GAPDH	end-labeled PCR product	
CEN16	end-labeled PCR product	