Supplementary Information

Primer sequences and PCR conditions

	NAME	5' --> 3'	PROD.	1st DEN.	DENAT.	ANN.	EXT.	CYCL.	FINAL / M. C.	MgCl (mM)	Ref.
RT	SDHA - fw SDHA - rv	gCC ATC CAC TAC ATg ACg TCC ATA TAA ggT gTg CAA TAg C	207 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
RT	14-3-3σ - fw 14-3-3σ - rv	TgA TCC AgA Agg CCA AgC TgC TCA ATA CTg gAC AgC ACC	184 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	3.5	
MSP	14-3-3σ - U - fw 14-3-3σ - U - rv	ATg gTA gTT TTT ATg AAA ggT gTT CCT CTA ACC ACC CAC CAC A	106 bp	97°C, 5min	95°C, 30s	62°C, 45s	72°C, 30s	40	72°C, 5min	3.0	
MSP	14-3-3σ - M - fw 14-3-3σ - M - rv	gAA ggT TAA gTT ggT AgA gTA ggT CgA AC AAC TAC TAA AAA CAA ATT TCG CTC TTC G	104 bp	97°C, 5min	95°C, 30s	62°C, 45s	72°C, 30s	40	72°C, 5min	3.0	
RT	ATM - fw ATM - rv	Tgg ATC CAg CTA TTT ggT TTg A CCA AgT ATg TAA CCA ACA ATA gAA gAA gTA g	82 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	1
MSP	ATM - M - fw ATM - M - rv	CgA Agg gCg AgT CgA AAC TCC AAT ATC ACg CgA TCT CC	122 bp	97°C, 5min	95°C, 30s	54°C, 30s	72°C, 15s	40	72°C, 5min	2.5	2
MSP	ATM - U - fw ATM - U - rv	ggA gTT TgA gTT gAA ggg Tg TCC AAT ATC ACA CAA TCT CCA CA	133 bp	97°C, 5min	95°C, 30s	54°C, 30s	72°C, 15s	40	72°C, 5min	2.5	
RT	ING1 - fw ING1 - rv	CTg AAg gAg CTA gAC gAg Tg ggC TTg TCA gAC TgC gCT AC	294 bp	97°C, 15min	97°C, 30s	59°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	3
COBRA	ING1 - fw ING1 - rv	Agg TTg TTg ggA gTg gTg g CCA ACA TCA CTT TAA CAA CCC	243 bp	97°C, 5min	98°C, 45s	60°C, 45s	72°C, 45s	35	72°C, 5min	2.5	
RT	PARG1 - fw PARG1 - rv	TTA gAg gAT gTT gTA CgC C TTC gAT gAA AgT CTC CTg g	189 bp	97°C, 15min	97°C, 30s	56°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
COBRA	PARG1 - fw PARG1 - rv	ggT TTT AAT TTT Tgg AAg Agg gAg g CCC TAA AAC CCA ACC CAT TAA CC	295 bp	97°C, 5min	95°C, 30s	56°C, 30s	72°C, 30s	40	72°C, 5min	2.5	

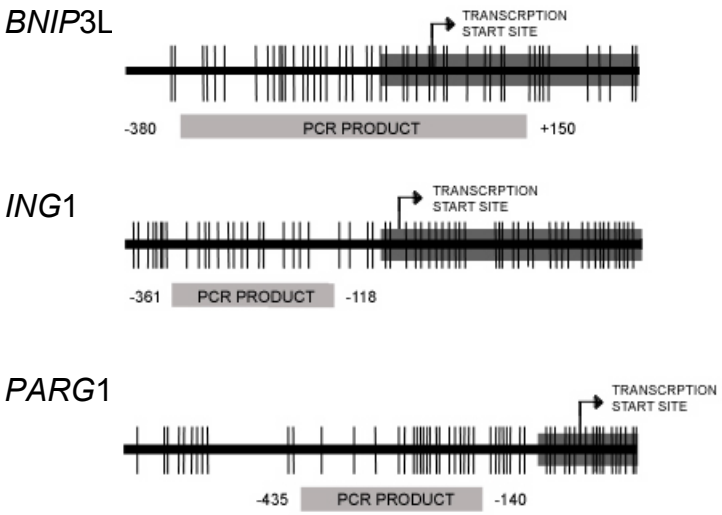
	NAME	5' --> 3'	PROD.	1st DEN.	DENAT.	ANN.	EXT.	CYCL.	FINAL / M. C.	MgCl (mM)	Ref.
RT	RUNX3 - fw RUNX3 - rv	Agg CAT TgC gCA gCT CAg Cgg AgT A TCT gCT CCg TgC TgC CCT CgC ACT g	152 bp	97°C, 15min	97°C, 30s	55°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
MSP	RUNX3 - M - fw RUNX3 - M - rv	ATA ATA gCg gTC gTT Agg gCg TCg gCT TCT ACT TTC CCg CTT CTC gCg	115 bp	97°C, 5min	95°C, 40s	55°C, 40s	72°C, 45s	40	72°C, 5min	1.5	4
MSP	RUNX3 - U - fw RUNX3 - U - rv	ATA ATA gTg gTT gTT Agg gTg TTg ACT TCT ACT TTC CCA CTT CTC ACA	115 bp	97°C, 5min	95°C, 40s	55°C, 40s	72°C, 45s	40	72°C, 5min	1.5	
RT	BNIP3L - fw BNIP3L - rv	CTg AgT gCC ggA gAC ggT CC CTg CCA TCT TCT TgT ggC gAA gg	364 bp	97°C, 15min	97°C, 30s	67°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	5
COBRA	BNIP3L - fw BNIP3L - rv	gTg gAg TTT gTg TgA gAg gAg g ACT ACT CCT CCT CCC CCA TC	530 bp	97°C, 5min	97°C, 45s	62°C and 60°C, 45s	72°C, 45s	each Temp. for 20	72°C, 5min	2.5	
RT	PUMA - fw PUMA - rv	AGC TGC GGC GGA TGG CGG ACC TAA TTG GGC TCC ATC	166 bp	97°C, 15min	97°C, 30s	59°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
RT	JunB - fw JunB - rv	CgT CAC CgA ggA gCA ggA gg TgA Tgg Tgg TCg TCg ggT AC	260 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
MSP	JunB - U - fw JunB - U - rv	TTg ggg gAA ATg ATg TTA ggA AAg TTA TTg T ACT ACA ACA AAC AAC AAA CTC TCC ACT ACA	181 bp	97°C, 5min	95°C, 90s	50°C, 60s	72°C, 120s	40	72°C, 5min	1.5	6
MSP	JunB - M - fw JunB - M - rv	gAC gTT Agg AAA gTT ATC gC CgA ACT AAA TAC CTA ATC gCg	135 bp	97°C, 5min	95°C, 90s	50°C, 60s	72°C, 120s	40	72°C, 5min	1.5	
RT	Cyclin A1 - fw Cyclin A1 - rv	gCC Tgg CAA ACT ATA CTg Tg CTC CAT gAg ggA CAC ACA CA	214 bp	97°C, 15min	97°C, 30s	59°C, 30s	72°C, 30s	45	MELTING CURVE	3.0	7
RT	CXCL10 - fw CXCL10 - rv	gTg gCA TTC AAg gAg TAC C gAg ATC TTT TAg ACC TTT CC	243 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	
RT	CXCL9 - fw CXCL9- rv	ggg CAT CAT CTT gCT ggT TC CTT CTT TTG ACG AGA ACG TTG AG	337 bp	97°C, 15min	97°C, 30s	57°C, 30s	72°C, 30s	45	MELTING CURVE	2.5	

COBRA Analyses

CpG islands were defined using the CpG island searcher (http://www.uscnorris.com/cpgislands2/cpg.aspx) according to the revised criteria of Takai and Jones 8. The Adenine of the transcription start site (ATG) was defined as +1.

Investigated CpG islands:

Gene	CpG island	Amplified Region
*BNIP*3L	-530 to +1 001	-380 to +150
*ING*1	-1 298 to +3 238	-361 to -118
*PARG*1	-692 to +777	-435 to -140



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