

Additional File 3: Supplemental Methods

Table S2: Primers used in this study

Name	Sequence	Application	Fragment size	Accession number*
Poly(T)-VN	GCGAGCACAGAATTAATACGACTCACTATAGG(T) ₁₂ VN*	cDNA synthesis	-	-
Cyclin E1	5'-CCTGGATGTTGACTGCCTTG 5'- ATGTCGCACCACTGATACCC	qPCR	114	NM_001238
Cyclin D1	5'- GATCAAGTGTGACCCGGACT 5'-GGGTCCATGTTCTGCTGG	qPCR	96	NM_053056
p16	5'- CACCAGCGTGTCAGGAAG 5'- GCCGATCCAGGTCATGATG	qPCR	128	NM_00077/ NM_001195132
p21	5'- CACTGTCTTGACCCTGTGC 5'- GGTAGAAATCTGTCATGCTGG	qPCR	114	NM_001220778/ NM_001220777/ NM_078467/ NM_000389/ NM_001291549
GAPDH	5'- GAAATCCCATCACCATCTTCC 5'- CAAATGAGCCCCAGCCTTC	qPCR	123	NM_002046/ NM_001289745/ NM_001289746/ NM_001256799
hsa-miR-16	5'- TAGCAGCACGTAAATATTGGCGAA 5'- GCGAGCACAGAATTAATACGAC	qPCR	58	MI0000070
hsa-miR-221	5'- GCTACATTGTCTGCTGGGTTTC 5'- GCGAGCACAGAATTAATACGAC	qPCR	56	MI0000298
hsa-miR-126	5'- TCGTACCGTGAGTAATAATGCG 5'- GCGAGCACAGAATTAATACGAC	qPCR	56	MI0000471

hsa-miR-223	5'- TGTCAGTTTGTCAAATACCCAAA 5'- GCGAGCACAGAATTAATACGAC	qPCR	58	MI0000300
hsa-miR-485-5p	5'- GGCTGGCCGTGATGAATTC 5'- GCGAGCACAGAATTAATACGAC	qPCR	53	MIMAT0002175
hsa-miR-519d	5'- CAAAGTGCCTCCCTTTAGAGTG 5'- GCGAGCACAGAATTAATACGAC	qPCR	56	MI0003162
5.8 S rRNA	5'- CTACGCCTGTCTGAGCGTCGCTT 5'- GCGAGCACAGAATTAATACGAC	qPCR	57	NR_003285
DLK1-DIO3 (methylated)	5'- GTTAGTAATCGGGTTTGTCGGC 5'- AATCATAACTCCGAACACCCGCG	qMSP	160	-
DLK1-DIO3 (unmethylated)	5'- GAGGATGGTTAGTTATTGGGGT 5'- CCACCATAACCAACACCCTATAATCACA	qMSP	120	-
C19MC (methylated)	5'- TGACGTCGTTACGTTTTGGA 5'- TAAACCGAAAAACGCGCG	qMSP	106	-
C19MC (unmethylated)	5'- TGATGTTGTTATGTTTTGGATTGAG 5'- AAACACACACCAACACCTCATAACA	qMSP	97	-

* according to UCSC, NCBI and miRBase

Table S3: Cycling conditions for qPCR

Step	Temperature [°C]	Time [s]	Cycles
Denaturation	95	600	
Denaturation	95	15	x 45
Annealing	59-60	60	
Melt	60-98	$\Delta T +1^{\circ}C/s$	

Table S4: qBiomarker Assays used for CN variation analysis

Cluster	Assay	Genomic Region	Gene
DLK1-DIO3	VPH114-0506637A	chr14:101327201-101327400	MEG3
	VPH114-0507099A	chr14:101419601-101419800	LOC100507242
	VPH114-0507682A	chr14:101536201-101536400	LOC100507257
C19MC	VPH119-0270702A	chr19:54140201-54140400	DPRX
	VPH119-0271054A	chr19:54210601-54210800	MIR520C
	VPH119-0307173A	chr19:54296838-54297302	NLRP12
Normalisation	VPH000-0000000A		