

Supplementary Table 2. Description of primers used in qRT-PCR, Targeted gene deep sequencing, Sanger sequencing and Methylation-Specific PCR.

Primer sequences qRT-PCR

Target gene	Primer sequences (5'-3')	Size
E2F1 ¹	CATCCAGGAGGTCACTTCTG GACAACAGCGGTCTTGCTC	144
P57 ²	GGCCTGTGATCCGATTTCTTC GGGTCTGCTCCACCGAG	126
TAp53 ³	CGCAGTCAGATCCTAGCGTC CTGGACCTGGGTCTTCAGTG	171
Δ133p53 ⁴	GGTTGCAGGAGGTGCTTACAC GTTGAGGGCAGGGGAGTACTG	128
β2μG	CCAGCAGAGAATGGAAAGTC CGAGACATGTAAGCAGCATC	285
β actin	CAGGCACCAGGGCGTG GTGAGGATGCCTCTTGTCT	84

MystiCQ™ microRNA qPCR

Target	SIGMA Reference
Universal PCR Primer	MIRUP
Assay Primer hsa-miR-25-3p	MIRAP00059
Assay Primer hsa-miR-200a-3p	MIRAP00247
Assay Primer hsa-miR-203	MIRAP00255
Assay Primer hsa-miR-205-5p	MIRAP00257
Assay Primer hsa-miR-221-3p	MIRAP00277
Assay Primer hsa-miR-222-3p	MIRAP00279
Assay Primer hsa-miR-375	MIRAP00360
Control Primer SNORD48	MIRCP00007

Primer sequences for Sanger DNA sequencing

Target Gene	Region	Sequence 5'-3'	Size
TP53	Exon 4 ⁵	ACTGCTCTTTACCCATCTAC TCATGGAAGCCAGCCCTCAG	332
	Exon 5	GGGTAGACGCCAACTCTCTC CCAGCTGCTCACCATCGCTA	340
	Exon 6 ^{6,7}	TGGTTGCCAGGGTCCCC CGGAGGGCCACTGACAACC	223
	Exon 7 ⁸	TGCCACAGGTCTCCCAAGG AGTGTGCAGGGTGGCAAGTG	196
	Exon 8	GCTTTGAGGTGCGTGTGTTGT CTGAGGCATAACTGCACCT	170

* European Molecular Biology Laboratory (EMBL) Accession No. X54156.1 (p53 gene sequence).

Primer sequences for Methylation-Specific PCR and Bisulfite Genomic Sequencing

Target Gene	Sequence 5'-3'	Size	
P57	MSP-U-F MSP-U-R	GTTGAATGTTGAGGATTAGAATTGT CAAAAAACAACTAACAACCACCAC	203
	MSP-M-F MSP-M-R	AGTTGAACGTCGAGGATTAGAATC GAAAAACGAATAACAACCACCG	203
	BS-F BS-R	GAGGATTAGAATYGTGGGATT AACTAACAACCACRCRA	184

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