

Bisulfite sequencing

<i>Gene</i>	<i>5' primer</i>	<i>3' primer</i>	<i>T_m (°C)</i>
<i>p21^{WAF1}</i>	attgggggaggaggggaagt	ctcacctctctaaatacctc	55
<i>RIZ1</i>	ggyggttggtggtggttatt	aacccaaaaccrccccacc	65
<i>GSTP1</i>	attgggaaagagggaaggt	acctcraacctataaaaata	55
<i>MAGEA1</i>	aggattttaaggagggtgag	cctcacaaaacctaaatcaattc	60
<i>CAGE1</i>	ttgtaagtgtgtaggtagtt	tccactctaaaacccaataaaac	60
<i>LAGE1</i>	ggttttttggggagggg	cccctataccctaaccttcracctac	60
<i>GAGE1</i>	ggttagtagaagtggttttagg	acctttatacaatttccacac	60
<i>PSCA</i>	aggataattgggttttagg	taaaaaccaacaaaacctcac	60
<i>S100A4</i>	ggtgtccacctccacaagt	gctgtccaagttgctcatca	63
<i>MSLN</i>	ggttattgagattgggaggg	aattccatccacaccacaaca	64
<i>Sat2</i>	atggaaatgaaaggggttattatt	aaattattccattccattccattaa	62
<i>D4Z4</i>	agttyggagtttttagtagg	caaaaatcccaaacratcaacc	58
<i>NBL2</i>	gtagttggtgtaatgtgtttat	cactctctatatattttcttccc	55

MSP

	<i>5' primer</i>	<i>3' primer</i>	<i>T_m (°C)</i>
<i>MGMT</i>	<u><i>Methylated primers</i></u> tttcgacgttcgtaggttttcgc	gcactcttcgaaaacgaaacg	59
	<u><i>Unmethylated primers</i></u> tttggtttgatgttttaggtttgt	aactccactcttccaaaacaaaaca	59
<i>GSTP1</i>	<u><i>Methylated primers</i></u> ttcggggtgtagcggctcgc	gccccataactaaatcacgacg	64
	<u><i>Unmethylated primers</i></u> gatgtttggggtgtagtgggtgt	ccacccaataactaaatcacaaca	64

ChiP

<i>Gene</i>	<i>5' primer</i>	<i>3' primer</i>	<i>T_m (°C)</i>
<i>p21^{WAF1}</i>	gcagagaggtgcatcgtt	acatttccccacgaagtgag	60
<i>RIZ1</i>	tcttgaaccacgcaggat	gactccagtcggaagagacg	61
<i>GSTP1</i>	ctctcccctgccctgtga	gggaagcctttccctcttt	61
<i>MGMT</i>	gtctgggggtccctgacta	ttccgctgaggctctgt	61
<i>LAGE1</i>	ggttggtgagaaccggtca	aggatgaggaggcagagag	62
<i>PSCA</i>	tgagatatggccctggtag	agaggcctcaggtgacttt	62
<i>Sat2</i>	tgaatggaatcgtcatcga	ccattcgataattccgcttg	62
<i>D4Z4</i>	ctcagcgaggaagaataccg	accgggcctagacctagaag	62
<i>NBL2</i>	tcccacagcagttggtgta	ttggcagaaacctctttgct	62

RT-PCR

<i>Gene</i>	<i>5' primer</i>	<i>3' primer</i>	<i>T_m (°C)</i>
<i>p21^{WAF1}</i>	ggcagaccagcatgacagatt	ggattagggtctcctcttgag	50
<i>GSTP1</i>	gggcagtgccctcacatagt	ggagacctcaccctgtacca	60
<i>RIZ1</i>	tgagagattctgcagaaggt	ggattgcatggcaggtgtt	54
<i>MGMT</i>	gccgctcttcaccatccc	gctgcagaccactctgtggcagc	65
<i>GAPDH</i>	tcttctttgctgcgccag	agccccagccttctcca	60

Supplementary Table 1 Primer sequences and annealing temperatures (T_m) for bisulfite sequencing, methylation-specific PCR (MSP), chromatin immunoprecipitation (ChiP) and RT-PCR reactions. “y”, stands for “c” or “t”; “r”, stands for “g” or “a”.