Supplementary Table 2. PCR Primers and conditions

All primers are listed in 5' to 3' orientation

MSP Primers

Gene	Methylated Sense Primer	Methylated Antisense Primer	Unmethylated Sense Primer	Unmethylated Antisense Primer	Annealing Temperature
APC	TATTGCGGAGTGCGGGTC	TCGACGAACTCCCGACGA	GTGTTTTATTGTGGAGTGTGGGTT	CCAATCAACAAACTCCCAACAA	53
BRCA1	TCGTGGTAACGGAAAAGCGC	AAATCTCAACGAACTCACGCCG	TTGGTTTTTGTGGTAATGGAAAAGTGT	CAAAAAATCTCAACAAACTCACACCA	60
CRBP1 (RBP1)	TTGGGAATTTAGTTGTCGTCGTTTC	AAACAACGACTACCGATACTACGCG	GTGTTGGGAATTTAGTTGTTGTTGTTTT	ACTACCAAAACAACAACTACCAATACTACACA	60
Cyclin D (CCND1)	GGAATCGTTGGGAGTTTTGTTTTC	GAAACCCGTAAAACGACGCG	GGGAATTGTTGGGAGTTTTGTTTTT	AACTCTTCAAAACCCATAAAACAACACA	60
DAP-kinase (DAPK)	GGATAGTCGGATCGAGTTAACGTC	CCCTCCCAAACGCCGA	GGAGGATAGTTGGATTGAGTTAATGTT	CAAATCCCTCCCAAACACCAA	60
E-Cadherin (CDH1)	TGTAGTTACGTATTTATTTTTAGTGGCGTC	CGAATACGATCGAATCGAACCG	TGGTTGTAGTTATGTATTTATTTTTAGTGGTGTT	ACACCAAATACAATCAAATCAAACCAAA	60
ER (ESR1)	ACGAGTTTAACGTCGCGGTC	ACCCCCCAAACCGTTAAAAC	TGTTGTTTATGAGTTTAATGTTGTGGTT	AAAAAAACCCCCCAAACCATT	60
FANCF	AGTATTTGGGATTTCGTTATCGTGC	GAATAAAACCATACCGACCAAAACG	TATGTTAGTATTTGGGATTTTGTTATTGTGT	ACAAATAAAACCATACCAACCAAAACA	60
FHIT	GCGGGTTTGGGTTTTTACGC	CGACGCCGACCCCACTAAA	GGGTGTGGGTTTGGGTTTTTATGT	CCATAAACAACACCAACCCCACTAAA	60
GATA-4	GTATAGTTTCGTAGTTTGCGTTTAGC	AACTCGCGACTCGAATCCCCG	TTTGTATAGTTTTGTAGTTTGTGTTTAGT	CCCAACTCACAACTCAAATCCCCA	60
GATA-5	AGTTCGTTTTTAGGTTAGTTTTCGGC	CCAATACAACTAAACGAACGAACCG	TGGAGTTTGTTTTTAGGTTAGTTTTTGGT	CAAACCAATACAACTAAACAAACAAACCA	60
GST-Pi	TTCGGGGTGTAGCGGTCGTC	GCCCCAATACTAAATCACGACG	GATGTTTGGGGTGTAGTGGTTGTT	CCACCCCAATACTAAATCACAACA	60
HIC-1	TCGGTTTTCGCGTTTTGTTCGT	AACCGAAAACTATCAACCCTCG	TTGGGTTTGGTTTTTGTGTTTTG	CACCCTAACACCACCCTAAC	60
MLH1	ACGTAGACGTTTTATTAGGGTCGC	CCTCATCGTAACTACCCGCG	TTTTGATGTAGATGTTTTATTAGGGTTGT	ACCACCTCATCATAACTACCCACA	60
O6-MGMT	TTTCGACGTTCGTAGGTTTTCGC	GCACTCTTCCGAAAACGAAACG	TTTGTGTTTTGATGTTTGTAGGTTTTTGT	AACTCCACACTCTTCCAAAAACAAAACA	60
p14 (CDKN2a)	GTGTTAAAGGGCGGCGTAGC	AAAACCCTCACTCGCGACGA	TTTTTGGTGTTAAAGGGTGGTGTAGT	CACAAAAACCCTCACTCACAACAA	55
p15 (CDKN2b)	GGTTTTTTATTTTGTTAGAGCGAGGC	TAACCGCAAAATACGAACGCG	GGTTGGTTTTTTATTTTGTTAGAGTGAGGT	AACCACTCTAACCACAAAATACAAACACA	60
p16 (CDKN2a)	TTATTAGAGGGTGGGGCGGATCGC	GACCCCGAACCGCGACCGTAA	TTATTAGAGGGTGGGGTGGATTGT	CAACCCCAAACCACAACCATAA	60
p73 (TP73)	GGACGTAGCGAAATCGGGGTTC	ACCCCGAACATCGACGTCCG	AGGGGATGTAGTGAAATTGGGGTTT	ATCACAACCCCAAACATCAACATCCA	60
RAR-b	TGTCGAGAACGCGAGCGATTC	CGACCAATCCAACCGAAACGA	TTGGGATGTTGAGAATGTGAGTGATTT	CTTACTCAACCAATCCAACCAAAACAA	60
RASSF1	GGGTTCGTTTTGTGGTTTCGTTC	TAACCCGATTAAACCCGTACTTCG	GGGGTTTGTTTTGTGGTTTTGTTT	AACATAACCCAATTAAACCCATACTTCA	60
SFRP1	TGTAGTTTTCGGAGTTAGTGTCGCGC	CCTACGATCGAAAACGACGCGAACG	GTTTTGTAGTTTTTGGAGTTAGTGTTGTGT	CTCAACCTACAATCAAAAACAACACAAACA	60
SFRP2	GGGTCGGAGTTTTTCGGAGTTGCGC	CCGCTCTCTTCGCTAAATACGACTCG	TTTTGGGTTGGAGTTTTTTGGAGTTGTGT	AACCCACTCTCTTCACTAAATACAACTCA	60
SFRP4	GGGTGATGTTATCGTTTTTGTATCGAC	CCTCCCCTAACGTAAACTCGAAACG	GGGGGTGATGTTATTGTTTTTGTATTGAT	CACCTCCCCTAACATAAACTCAAAACA	60
SFRP5	AAGATTTGGCGTTGGGCGGGACGTTC	ACTCCAACCCGAACCTCGCCGTACG	GTAAGATTTGGTGTTGGGTGGGATGTTT	AAAACTCCAACCCAAACCTCACCATACA	60
SOCS-1	TTCGCGTGTATTTTTAGGTCGGTC	CGACACAACTCCTACAACGACCG	TTATGAGTATTTGTGTGTATTTTTAGGTTGGTT	CACTAACAACACAACTCCTACAACAACCA	55
Thrombo (THBS1)	TCGGACGTATAGGTATTTTTCGC	ATCCTCGACGACCGCCG	TTTTTATTTTGGATGTATAGGTATTTTTTGT	CAACTTTAATCCTCAACAACCACCA	55
TIMP-3	CGTTTCGTTATTTTTTGTTTTCGGTTTC	CCGAAAACCCCGCCTCG	TTTTGTTTTGTTATTTTTTGTTTTTGGTTTT	CCCCCAAAAACCCCACCTCA	60
TMS-1 (PYCARD)	GCGGTTGTAGCGGGGTGAGC	CGCATCCAAAATAACGTCGCG	TTGGTGGTTGTAGTGGGGTGAGT	CCAACACATCCAAAATAACATCACA	60

Real-time RT/PCR primers

Gene Name	Forward Primer	Reverse Primer	Annealing Temperature
BRCA-1	TTGCGGGAGGAAAATGGGTAGTTA	GTTGATCTGTGGGCATGTTGGTGA	56
Bmi-1	TATTGTTCGTTACCTGGAGACC	TTTGAAAAGCCCTGGAACTAA	49
CRBP1	CATCCGCACGCTGAGCACTTTTAG	CACGCCCCTCCTTCTCACCCTTCT	58
Cyclin D	GGTGGTGCTGGGGAAGTTGAAGTG	TCGACGGTGGGTACATGGCAAACT	59
Cyclin D	GGTGGTGCTGGGGAAGTTGAAGTG	TCGACGGTGGGTACATGGCAAACT	59
DAPK1	CGCTGACCACGGACGGAAAGA	GGTCGGAGCTGCTGGATGAAGAGT	58
E-cadherin (CDH-1)	CCGCCGGCGTCTGTAGGAA	AGGGCTCTTTGACCACCGCTCTC	57
EZH2	CCCGCTGAGGATGTGGATACT	ACAAGGCTGCCGTGGATGAT	55
GAPDH	GAAGGTCGGAGTCAACGGATTT	ATGGGTGGAATCATATTGGAAC	52-60
GATA-4	GGCCGCCCGACACCCCAATCT	ATAGTGACCCGTCCCATCTCG	56
GATA-5	CCTGCGGCCTCTACCACAA	GGCGCGGCGGGACGAGGAC	58
GST-pi	GTTTCGCCGCCGCAGTCTTC	CCCGTATAGGCAGGAGGCTTTGAG	62
MGMT	CACCATCCCGTTTTCCAGCAAGAG	ACGGGATGAGGATGGGGACAGGAT	59
p14	GAAAGGCCCTCGAAAAGTCC	GGCGGTTATCTCCTCCTCCTCCTA	54
p15	AGCCGCCCACAACGACTTTATTTT	GTTATTCCCGGTCGGCTCCTCCTT	58
p16	CGGGGTCGGGTAGAGGA	GCGCTGCCCATCATCAT	58
p73	AGGTGCGAGGCCGGGAGAACTTTG	AGGACGGGGGCTGTAGGTGACTCG	61
RAR-b2	CGCCCCGGCTGGATTGG	TCGAGGGGGAGGAAGTGGAGATG	58
sfmbt RT A	AGGAGAAAGAGGCGGAAAAATGTT	GCTCGGATGTACTGCCTTCACTTA	55

sFRP1	GGCCCATCTACCCGTGTCG	GATGGCCTCAGATTTCAACTCGT	60
sFRP2	AAGCCTGCAAAAATAAAAATGATG	TGTAAATGGTCTTGCTCTTGGTCT	53
sFRP4	TCTATGACCGTGGCGTGTGC	ACCGATCGGGGCTTAGGCGTTTAC	56
sFRP5	ACCGCGCCTCCAGTGACCA	TCTCCTTGATGCGCATTTTGACCA	57
Suz12	GAGGCGGCTTCGGGGGTTCG	GACGTGCTCCATTTTCGGCTTCTT	58
Timp-3	GGCGGCAGCAGCGGCAATGAC	TACCAGCTTCTTCCCCACCACCTT	62

ChIP primers

Gene Name	Forward Primer	Reverse Primer	Annealing Temperature	Additions
CDH1	AACAAAAGAACTCAGCCAAGTG	ACGCCACTGAGAGGGGGTGC	57	10% DMSO
GATA4	GGGCGGGGAGGGAGAAAGGGAACT	GTGCGCGGCCCCGGCTACAC	61	1.5x Q solution
GATA5	GAAGCCCTCGGCCCGCCCGTCTA	CTCCCCGCGCCCGCCCCTTCT	67	1.5x Q solution
p15	GCTAACGACCGGCCGCTCGGCCAC	TCCCACGCTGCTCCGGCGCACTCT	61	1.5x Q solution
p16	TGGCTGGTCACCAGAGGGTG	GACCGTAACTATTCGGTGCG	56	2x PCR enhancer, Platinum Taq
RASSF1A	GATCACGGTCCAGCCTCTGC	CTCGAGCCTTCACTTGGGGT	58	
sFRP1	AATTTCATGGGTTTGCAAGTATGA	TAAATAAAAGGGGGAGGAGGAAAG	52	
sFRP2	GCTGCTGAACGGTGGCTGGAGATT	CAGGCATGAGTGGGAGAGGGTGTG	62	
sFRP5	GCTGAGGGAGTTTATGCAATGTGC	CACCTCCAGGGCCAGGATAGTCTA	56	