

Table S4. Primers for bisulfite pyrosequencing.

Name of Gene	Primer Type*	Sequence
CMV	F RU S	GGGGTGGAGATTTGGAAATT <u>GGGACACCGCTGATCGTTT</u> ACCCACTTAACAATACATCAAATATATCA TGGAGATTTGGAAATTT
P16	F RU S	GGTTGTTTTYGGTTGGTGT <u>GGGACACCGCTGATCGTTT</u> AACCCTATCCCTCAAATCCT AGTTAGGTGTGGGATATAGT
PGR	F RU S	TGTGGGTGGTATTTTTAATGAGA <u>GGGACACCGCTGATCGTTT</u> ACCCCTCACTAAAACCTAAA GGGATTTGAGATTTT
MLH1	F1 F2 RU S	TTGAGTTAGATTATTTTAGTAGAGGTATAT GGTATTTTTGTTTTATTGGTTGGATATT <u>GGGACACCGCTGATCGTTT</u> ACCAATCAAATTTCTCAACTCTATAAATTACTA TTTAAAAAGAATTAATAGGAA
PDLIM4	F RU S	TTTGTGAGTTTGGATTGGT <u>GGGACACCGCTGATCGTTT</u> ACCCCAAATAAACCTCCAT TTTATTTAGTTTTAGAGAT
NPM2	F RU S	TTTTTAGGTTAGAGGGGATGAG <u>GGGACACCGCTGATCGTTT</u> ATAAACCTAACTCAAAAACCTCTATA GTTAGAGGGGATGAGGT
OLIG2	F RU S	TTTTAAAGGTGAGGATGTTTATTAT <u>GGGACACCGCTGATCGTTT</u> AAAAATCCAAACCCCTATAT AGGTGAGGATGTTTATTATA
LINE-1	F Bio-R	TTTTGAGTTAGGTGTGGGATATA Biotin-AAAATCAAAAAATCCCTTTC
Biotin-Universal	BU	Biotin- <u>GGGACACCGCTGATCGTTT</u>

Primer type: F, forward; RU, reverse primer with the 5'-GGGACACCGCTGATCGTTT universal tag; BU, universal primer with 5'-biotin for biotin labeling of the reverse strands; S, pyrosequencing primer.

Table S5. Primers for CHIP Q-PCR.

Name of Gene	Primer Type	Sequence 5' → 3'
GFP	Forward Reverse Probe*	CATCTACGTATTAGTCATCGCTATTACCA TCAATGGGCGTGGATAG 6-FAM GAAATCCCCGTGAGTCAAACC
MLH1	Forward Reverse Probe*	TTCCGTTGAGCATCTAGACGTTT CCTGCCACGAACGACATTTT 6-FAMCTTGGCTCTTCTGGCGC
P16	Forward Reverse Probe*	CCCGCCCGTTTCCT CCGATTCAATTTGGCAGTTAGG 6-FAMTCCGCGATACAACCT
RAR β -2	Forward Reverse Probe*	TTGGAAGGAGAACTTGGGATCTT AGGCTTGCTCGGCCAATC 6-FAMCTGGGAACCCCCC
ESR1	Forward Reverse Probe*	GCGGCCACGGACCAT TAGGGCCATCCCAGATGCT 6-FAMCCATGACCCTCCACACC

*The TaqMan[®] probes were labeled with 6-FAM[™] on the 5' end and with minor groove binder (MGB) and nonfluorescent quencher (NFQ) on the 3' end.