

Table S1. Primers used in the study

A. Primers and conditions					
Gene	Analysis	Primer name	Forward Primer (5'-3')	Reverse Primer (5'-3')	Ta (°C)
MLH1	MS-MCA	MLH1C_PCR_ext	TATTTTTGTTTTATTGGTTGG	CCAATCAAATTCTCAACTCTATA	50
		MLH1C_PCR_int	TGTTTTATTGGTTGGATATT	CCAATCAAATTCTCAACTCTATA	50
		MLH1D_PCR_ext	AGGTATTGAGGTGATTGGTTG	CAATTCTCAATCATCTCTTAATAACA	50
		MLH1D_PCR_int	GGTGATTGGTTGAAGGTATTT	ATCATCTCTTAATAACATTAACCAACC	50
MLH1	Pyrosequencing	Piro_PCR_MLH1_C	TTTYGGTATTTTGTGTTTATTGGTTGG	[Btn]AAACAACTTAAATACCAATCAAATTCTCAAC	58
		Piro_Seq_MLH1_C	TAAAAAYGAATTAATAGGAA	-	-
		Piro_PCR_MLH1_intron1	ATTTAGYGGTTAGTTAATGTTAAAGAGATG	[Btn]TAAACATACRCTATACATACCTCTACCC	56
		Piro_Seq_MLH1_intron1	AGTYGGGTTTATTAAGGGTTA	-	-
MLH1	Clonal Bisulfite sequencing	PCR_MLH1_CD	TTTTAAAAAYGAATTAATAGGAAGAG	CAATTCTCAATCATCTCTTAATAAA	55
	Clonal Sequencing	PCR_MLH1_cDNA	GCATTCAAGCTGTCCAATCA	AGGTACAGGAATGGGTGTGTG	64
ASE (SNuPe)		Seq_MLH1_cDNA_int	GCAGTCCTTGAGGATTAGC	TCCATCAGCTGTTTCGTT	-
ASE (SNuPe)	rs179997_PCR_cDNA	CACAATGCAGGCATTAGTTCTC	AGGTACAGGAATGGGTGTGTG	59	
	rs179997_PCR_gDNA	GTTTCAGTCTCAGCCATGAG	ACACATGATTCACGCCACAG	55	
	rs179997_snupe		TTCTCGACTAACAGCATTCCAAAGA	50	

B. Localization of the probes and regions analyzed in the study of *MLH1* methylation. The *EMP2AIP1-MLH1* CpG island (colored in dark purple) encompass the *MLH1* promoter and intron 1

