Supplementary Table 1. PCR-RFLP based mutation primers

Gene	Forward Primer sequence	Reverse Primer sequence	Product size
XRCC1 codon399	5'-GGACTGTCACCGCATGCGTCGG-3'	5'-GGCTGGGACCACCTGTGTT-3'	115 bp + 34 bp (Wild)
			149 bp (Mutant)
XRCC1 codon280	5'-TTGACCCCCAGTGGTGCT-3'	5'-CCCTGAAGGATCTTCCCCAGC-3'	126 bp + 62 bp (Wild)
			188 bp (Mutant)
hOGG1 codon326	5'-ACTGTCACTAGTCTCACCAG-3'	5'-GGAAGGTGCTTGGGGAAT-3'	200bp (wild)
			100 bp + 100 bp (mutant)

Supplementary Table 2. Gene specific expression primers

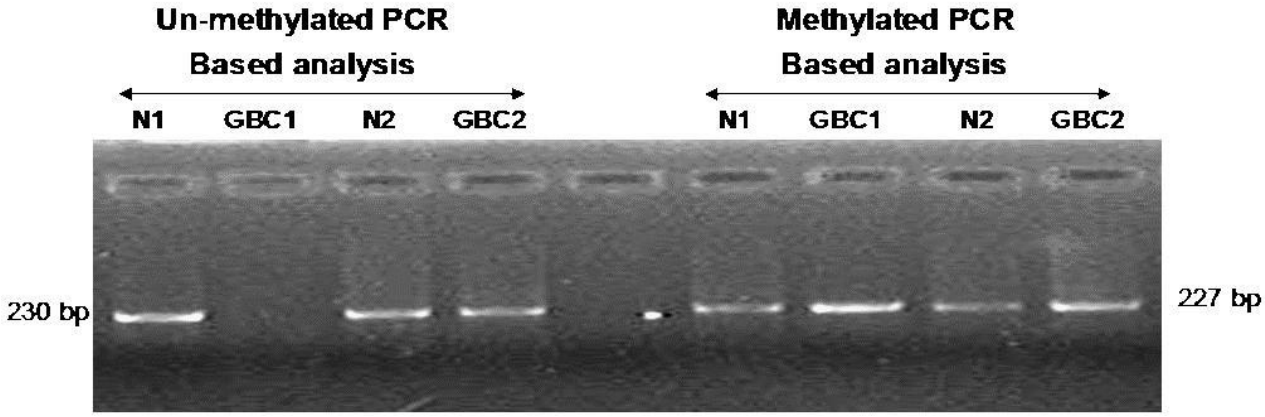
Gene	Forward Primer sequence	Reverse Primer sequence	Product size
Beta-actin	5'-AGATGTGGATCAGCAAGCAG -3'	5'-GCGCAAGTTAGGTTTTGTCA -3'	122 bp
XRCC1	5'-CAGCTGTCGCCATCTGTTC-3'	5'-TGAAGGATCTTCCCCAGCTC-3'	173 bp

hOGG1	5’-ATCTGTTCCTCCAACAACAAC-3’	5-‘TTCCTGAGATGAGCCTCCAC-3’	161 bp
PARP1	5’-AAGAAATGCAGCGAGAGCAT-3’	5’-CCAGTGTGGGACTTTTCCAT-3’	90 bp
POL-β	5’-TACATTGCTACAGTCTGTGGCAGTT-3’	5’-TGGGATGGGTCAGGAGAACA-3’	79 bp
PCNA	5’-CCATCCTCAAGAAGGTGTTGG-3’	5’-TAGGTGTCGAAGCCCTCAGA-3’	151 bp
APE	5’-TGGAATGTGGATGGGCTTCGAGCC-3’	5’-AAGGAGCTGACCAGTATTGATGA-3’	169 bp

Supplementary Table 3. Methylation detection primers

Gene	**Forward Primer sequence**	**Reverse Primer sequence**
XRCC1 methylated	5’-TTTTTAGAAAGTAGGGTTCGGACGT-3’	5’-GCCCTACGCTAACTAAAATACGCA-3’
XRCC1 unmethylated	5’-TTTTTAGAAAGTAGGGTTTGG	5’-TACACCCTACACTAACTAA

	ATGT-3’	AATACACA-3’
hOGG1 methylated	5’-AATTTAGAAGAATATAGTTGTGCGC-3’	5’-TACATACCTCGCCCTTTACGA-3’
hOGG1 unmethylated	5’-TTTAGAAGAATATAGTTGTGTGTGT-3’	5’-CTCCTACATACCTCACCCTTTACAA-3’



Supplementary Figure 1. Representative agarose gel showing differential methylation profile of XRCC1 promoter in GBC cases compared to controls showing hyper-methylation in GBC cases.