

Table S1. Sequences of the primers used in real-time PCR.

Gene	Forward Primer 5'-3'	Reverse Primer 5'-3'
<i>LIG3</i>	AAGGGAAGCTGAGTAACTCCA	CCGCCTCTTTGTTTGGCAC
<i>XRCC1</i>	CTTTGGCTTGAGTTTTGTACGG	TGGGGATGTCTTGTTGATCCG
<i>PNKP</i>	ACAACAACCGGTTTCGAGAG	ATCTCCAGGATGGCAGAGAA
<i>PARP1</i>	GATGCCTATTACTGCACTGGG	CGGTCCTGCTTTTTTAACCTTCAA
<i>PARP2</i>	TGATGACGTCAGCGTTCG	TTCTTGGCAGGGGAAGAGT
<i>RAD51</i>	ATCACTAATCAGGTGGTAGCTCAA	CCCCTCTTCCTTTCCTCAGA
<i>BRCA1</i>	CTTAGAGTGTCCCATCTGTCTGG	GCCCTTTCTTCTGGTTGAGA
<i>BRCA2</i>	GCGCGGTTTTTGTCTAGCTTA	TGGTCCTAAATCTGCTTTGTTGC
<i>RAD50</i>	GCTTCTGATAAAAGGCGGAAT	GCGAATGATGAGTGAGGCTAA
<i>MRE11A</i>	AAGATGATGAAGTCCGTGAGG	TCATTAGCCATCTGTTCTGCTAAA
<i>NBS1</i>	CACTCACCTTGTCATGGTATCAG	CTGCTTCTTGGACTCAACTGC
<i>XRCC6</i>	AGTCATATTACAAAACCGAG	CCTTGGAGGCATCAACCAAA
<i>XRCC5</i>	CAACAAAAAGTCAGATTCTCTCTC	GCTGTAGGTCCATCTTCATGGT
<i>PRKDC</i>	CCAAGAGATCTTCCTTCTTGGA	CGTAAGGGCGAAAGACCTC
<i>LIG4</i>	GCTTCTCCTACTGAAGGTCTCT	TGCAGATCAGAATCCTCTACCA
<i>XRCC4</i>	AATCCACCTTGTTTCTGAACCC	CCTTTTTCCATTGCCATGTCATC
<i>DCLRE1C</i>	ACTCGGAGCCCGTACCAT	TGTCTAGCTTATTCACATGA
<i>WRN</i>	CCAATTTTATTTCTCCGAGGATCT	GATCAGCTGACGGGAAAAAG
<i>NHEJ1</i>	CTTCAACAGGTGTGGCATGA	ACAATGGGCGAAGGAGATTA
<i>ATM</i>	GCAGCTGGAAGAAGCACAA	TTTTAGGCTGGGATTGTTTCG
<i>ATR</i>	TGTAGAGAGATGGAGACCAACG	GACCAATCGGTTGACTTCTGA
<i>TP53</i>	TTCTGTCCCTTCCCAGAAAA	GTTGGCAAAACATCTTGTTGAG
<i>APTX</i>	GCTACCACGCCATTCCGAG	CGAAGGGGCAGCTTCAAGAG
<i>PARP3</i>	GGAAGTGTGAGCCTTCTGGT	AATATCCTCATCTTCTGCTTTCGT
<i>MDC1</i>	TGTGGGAGCCTTAATGGTACT	CAGAGCAAGTCAGCAAAGAGAA
<i>MCT1</i>	GTGGCTCAGCTCCGTATTGT	GAGCCGACCTAAAAGTGGTG
<i>MCT2</i>	CAACACCATTTCCAAGACAGC	TGGCTGTTATGTACGCAGGA
<i>MCT4</i>	CAGTTCGAGGTGCTCATGG	ATGTAGACGTGGGTCGCAT
<i>HCAR1</i>	TGCCCAGCGTGTCTGCTAGACT	TACACCAGGGGATCCAGCATGC