

## ***RAD51*, *XRCC3*, and *XRCC2* mutation screening in Finnish breast cancer families**

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### **Supplementary Material**

**Supplementary Table 1.** Primers and PCR conditions for the sequencing of the *RAD51*, *XRCC3*, and *XRCC2* genes.

<b>Gene</b>	<b>Amplicon</b>	<b>Length (bp)</b>	<b>Forward primer</b>	<b>Reverse primer</b>	<b>Temp (C°)</b>
<i>RAD51</i>	5'UTR-ex1	540	TTACGCAAAAAGGGAAGAGG	GTCCGGGTTTCACACTGC	58
<i>RAD51</i>	ex2	443	GGCCCCTACACTGAAGGAAT	GGCCCTGCCAGACATATTTA	55
<i>RAD51</i>	ex3	398	CCAAGGATTTCAAGGGACAG	GGTAACAGTCACCCCTGGAA	55
<i>RAD51</i>	ex4	526	CCCATTGCACACCTTGTTTT	TGCACCTACAGGGATTACAGG	55
<i>RAD51</i>	ex5	288	ATCGCTTGTTGGAAATTGAA	GATGCTTGCAAATAGCAGGA	55
<i>RAD51</i>	ex6	274	TGTCATGAGGAGCTTGGTCA	TTGGGACGTGGGGTTATAGA	58
<i>RAD51</i>	ex7	370	TGGGTGCTATCATCTCTCTGC	GCCATTACAAGATTCAGGGAAG	58
<i>RAD51</i>	ex8	253	TGGTAAGGAAGGGACCAGAA	CTGGAATTCACAGCCACTGA	58
<i>RAD51</i>	ex9	421	GCAGCATTAAAGGCTTTTGGA	ACAGGGGAGAGGCATATCAA	58
<i>RAD51</i>	ex10	416	AAATGGATTCTGCCAGGTTG	TTTCCCGGAAGCTTTATCCT	58
<i>XRCC3</i>	ex3	495	GGTAAATGTGGTGGGTTTGG	CGCCCTCGGTTTAATAATCA	58
<i>XRCC3</i>	ex4	507	CACACTGTGTCCAGGTTTC	ATCTTCTGACCCGATGCTGT	60
<i>XRCC3</i>	ex5	467	CTTGCTCACCCCATGAC	AATGGTAGGAACAGCGCAAG	61
<i>XRCC3</i>	ex6	345	GTTAGAAATGGCGGGAGACA	CTGCTGTGAGACCCCATG	61
<i>XRCC3</i>	ex7	423	GACAGTCCAAACGGGGTCT	GGTTAGGCACAGGCTGCTAC	65
<i>XRCC3</i>	ex8-9	531	GTAGCAGCCTGTGCCTAACC	CCAGGCAGACGCGTTTTA	61
<i>XRCC2</i>	ex1	249	AGGCCCGCACACCCTATT	GGCCTTGTTCCCATCTCC	63
<i>XRCC2</i>	ex2	378	ACAGCACCCAGCCTAAAGTT	TTGTCTGACACCGATGAGGA	63
<i>XRCC2</i>	ex3a	485	TGCATTTTGTAACTACCCTTG	TCTCTAAGCACTGAGAACATTTCC	61
<i>XRCC2</i>	ex3b	528	TCAATGGAGGAGAAAGTGTGAA	AGGAGGCACACATAGGAGGA	60

Bp = base pairs, Temp = annealing temperature.