

**Additional Table 2. List of primers sequences used for PCR amplification of the entire exons and exon-intron junctions of the *BRCA1* and *BRCA2* genes**

Exon	F/R	Nucleotide sequence of the primers	Size of PCR products	Annealing temperature	Design by
<b>BRCA1</b>					
2	F	5'-GGACGTTGTCATTAGTTCTTTGG-3'	339bp	56 °C	custom bic
	R	5'-GTCTTTTCTTCCCTAGTATGT-3'			
3	F	5'-AACGAACTTGAGGCCTTATG-3'	308bp	51°C	bic bic
	R	5'-TTGGATTTTCGTTCTCACTT-3'			
5	F	5'-CTCTTAAGGGCAGTTGTGAG-3'	278bp	56 °C	bic bic
	R	5'-ATGGTTTTATAGGAACGCTATG-3'			
6	F	5'-TTTCTACTGTTGCTGCATCT-3'	273bp	58 °C	custom custom
	R	5'-TAATGTGCAAACTTCTGAG-3'			
7	F	5'-GGTTTCTCTTGGTTTCTTTG-3'	250bp	57 °C	bic custom
	R	5'-CCCAGCTACTAAGGGGGCTA-3'			
8	F	5'-TGTTAGCTGACTGATGATGGT-3'	268bp	54 °C	bic bic
	R	5'-AACCCAGCAATTATTATTAATAAC-3'			
9	F	5'-CCACAGTAGATGCTCAGTAAATA-3'	211bp	57 °C	bic bic
	R	5'-TAGGAAAATACCAGCTTCATAGA-3'			
10	F	5'-GATCTTGGTCATTTGACAGTTC-3'	240bp	53 °C	bic bic
	R	5'-CCCAAATGGTCTTCAGAATA-3'			
11a	F	5'-CCACCTCCAAGGTGTATGA-3'	370bp	59 °C	custom custom
	R	5'-TGTTATGTTGGCTCCTTGCT-3'			
11b	F	5'-TACTCACTAAAGACAGAAATGA-3'	401bp	58 °C	custom custom
	R	5'-CCAGAATTCATCTACCTCA-3'			
11c	F	5'-CACATGATGGGGAGTCTGA-3'	366bp	58 °C	custom custom
	R	5'-TCTTGATAAAAATCCTCAGGATG-3'			
11d	F	5'-CAAGAGCGTCCCCTCACA-3'	388bp	63 °C	custom custom
	R	5'-GCGCATGAATATGCCTGGT-3'			
11e	F	5'-GTATAAGCAATATGGAACCTCGA-3'	388bp	59 °C	custom custom
	R	5'-TTAAGTTCCTGATTTTGAACA-3'			
11f	F	5'-GACAGCGACTTTCCAGAG-3'	704bp	60 °C	custom custom
	R	5'-TGGAACAACCATGGATTAGTC-3'			
11g	F	5'-GGAAGTTAGCACTCTAGGGA-3'	423bp	57 °C	custom custom
	R	5'-GCAGTGATATTAAGTCTGTGA-3'			
11h	F	5'-GCAACATTCTCTGCCCACTC-3'	436bp	58 °C	custom custom
	R	5'-GGCTAATTGTGCTCACTGT-3'			
11i	F	5'-CTACTTTTTCCCATCAAGTCA-3'	377bp	59 °C	custom custom
	R	5'-TCAGGATGCTTACAATTAATTC-3'			
11j	F	5'-CAAAAATTGAATGCTATGCTTAGA-3'	377bp	61 °C	custom custom
	R	5'-TCGGTAACCCTGAGCCAAAT-3'			
11k	F	5'-GCAAAAAGCGTCCAGAAAGGA-3'	396bp	61 °C	custom custom
	R	5'-TATTTGCAGTCAAGTCTTCCAA-3'			
11l	F	5'-GTAATATTGGCAAAGGCATCT-3'	360bp	63 °C	custom custom
	R	5'-TAAAATGTGCTCCCCAAAAGCA-3'			
12	F	5'-GCGTTTATAGTCTGCTTTTACA-3'	227bp	54 °C	bic bic
	R	5'-TGTCAGCAAAACCTAAGAATGT-3'			
13	F	5'-AATGGAAAAGCTTCTCAAAGTA-3'	320bp	54 °C	bic bic
	R	5'-ATGTTGGAGCTAGGTCCTTAC-3'			
14	F	5'-CTAACCTGAATTATCACTATCA-3'	312bp	54 °C	bic bic
	R	5'-GTGTATAAATGCCTGTATGCA-3'			
15	F	5'-CAGACTTCTAGGCTGTCTTGC-3'	378bp	59 °C	bic bic
	R	5'-GTGTTTGTTCGAATACAGCAG-3'			
16	F	5'-AATTCTTAACAGAGACCAGAAC-3'	450bp	56 °C	bic bic
	R	5'-AAAACCTTTTCCAGAATGTTGT-3'			
17	F	5'-AGCTGTGTGCTAGAGGTAAGTCA-3'	190bp	60 °C	bic bic
	R	5'-GTGGTTTTATGCAGCAGATG-3'			
18	F	5'-AGCCTCCCCTAGACTTCCAA-3'	319bp	60 °C	custom custom
	R	5'-TAAAGGGAGGAGGGGAGAAA-3'			
19	F	5'-TGTGGCTTTAGAGGGAAGGA-3'	261bp	60 °C	custom custom
	R	5'-GGTGCATTGATGGAAGGAAG-3'			
20	F	5'-ATATGACGTGTCTGCTCCAC-3'	259bp	54 °C	bic bic
	R	5'-AGTCTTACAAAATGAAGCGG-3'			

21	F	5'-AAGCTCTTCCTTTTTGAAAGTC-3'	298bp	58 °C	bic
	R	5'-GTAGAGAAATAGAATAGCCTCT-3'		58 °C	bic
	F	5'-TCCCATTGAGAGGTCTTGCT-3'			bic
23	R	5'-GAGAAGACTTCTGAGGCTAC-3'	258bp	58 °C	custom
	F	5'-TGAAGTGACAGTCCAGTAGT-3'			
24	R	5'-CATTTTAGCCATTCATTCAACAA-3'	280bp	58 °C	bic
	F	5'-ATGAATTGACACTAATCTCTGC-3'			
BRCA2					
2	F	5'-CCAGGAGATGGGACTGAATTAG-3'	311bp	60 °C	bic
	R	5'-CTGTGACGTACTGGGTTTTTAGC-3'			
3	F	5'-GATCTTTAACTGTTCTGGGTCACA-3'	424bp	59 °C	bic
	R	5'-CCCAGCATGACACAATTAATGA-3'			
4	F	5'-AAACACTTCCAAAGAATGCAAA-3'	399bp	54 °C	custom
	R	5'-CCAGCCAATTCAACATCACA-3'			
5/6	F	5'-TGTGTTGGCATTTTAAACATCA-3'	453bp	54 °C	bic
	R	5'-CAGGGCAAAGGTATAACGCT-3'			
7	F	5'-CCTTAATGATCAGGGCATTTC-3'	215bp	59 °C	bic
	R	5'-CAACCTCATCTGCTCTTTCTTG-3'			
8	F	5'-GCCATATCTTACCACCTTGTGA-3'	406bp	60 °C	bic
	R	5'-AGGTTTAGAGACTTTCTCAAAGGC-3'			
9	F	5'-ATAACTGAAATCACCAAAAGTG-3'	243bp	62 °C	bic
	R	5'-CTGTAGTTCAACTAAACAGAGG-3'			
10a	F	5'-CAGGAGAAGGGGTGACTGAC-3'	575bp	61 °C	custom
	R	5'-AGACCATTACAGGCCAAAG-3'			
10b	F	5'-ATTTTCCATGAAGCAAACGC-3'	720bp	57 °C	custom
	R	5'-AGAATTCTGTGTGGTGGTGG-3'			
10c	F	5'-TGGAGAAAATACCCCTATTGC-3'	491bp	58 °C	custom
	R	5'-AGAATTCTGTGTGGTGGTGG-3'			
10d	F	5'-TCACCTAAAGAGACTTTCAATGC-3'	442bp	61 °C	custom
	R	5'-CAGAAGGAATCGTCATCTATAAAAC-3'			
11a	F	5'-CACTGTGCCCAAACTACC-3'	462bp	56 °C	custom
	R	5'-CTTTCTGGGATTGAAAGTCAG-3'			
11b	F	5'-CCTGCAGGAAGGACAGTGTG-3'	410bp	61 °C	custom
	R	5'-TTCTTGAAGGTGATGCTACTCTC-3'			
11c	F	5'-CCCATGGAAAAGAATCAAGATG-3'	390bp	61 °C	custom
	R	5'-AATTGACACTTGGGTTGCTTG-3'			
11d	F	5'-CGAACCCATTTTCAAGAACTC-3'	432bp	58 °C	custom
	R	5'-GGCTTGCTCAGTTTCTTTTGA-3'			
11e	F	5'-CAATTTCAAATCACAGTTTTGG-3'	452bp	56 °C	custom
	R	5'-CATCTGGTTTTTCAGGCACTTC-3'			
11f	F	5'-AACACCTAGCCAAAAGGCAG-3'	396bp	56 °C	custom
	R	5'-TGCAGAGCTTCAGTAGAAACATTC-3'			
11g	F	5'-TTAAACGGAAGTTTGTGTCG-3'	427bp	55 °C	custom
	R	5'-TTTCTACTGGCAGCAGTATATTG-3'			
11h	F	5'-AAATAATATTGAAATGACTACTGGCAC-3'	451bp	60 °C	custom
	R	5'-TTTATTAATGACTCTTTGGCGAC-3'			
11i	F	5'-TTTTTGGAAGTTGCGAAAGC-3'	455bp	54 °C	custom
	R	5'-TCCAAAAGATTCTTTGCAATTT-3'			
11j	F	5'-TGAAAGAAAGTGTCCAGTTG-3'	419bp	55 °C	custom
	R	5'-TGATGTTTTGAGATTTTCAGTTTG-3'			
11k	F	5'-AGCTGCCCCAAAGTGTAAG-3'	506bp	59 °C	custom
	R	5'-CATCAGAATGGTAGGAATAGCTG-3'			
11l	F	5'-TCATTGAAAATTCAGCCTTAGC-3'	458bp	55 °C	custom
	R	5'-AGTCACAAGTTCCTCAACGC-3'			
11m	F	5'-ATGCAAAATGCATACCCACAA-3'	442bp	56 °C	custom
	R	5'-GAAACTTTCTCCAATCCAGACA-3'			
11n	F	5'-CAAAAATTTGCCAAACGAAA-3'	432bp	58 °C	custom
	R	5'-TGAGCTGGTCTGAATGTTTCG-3'			
11o	F	5'-TCATCTGCAAATACTTGTGGG-3'	440bp	54 °C	custom
	R	5'-TGCTCTGGGTTTCTCTTATCAAC-3'			
11p	F	5'-CAAGTTTCCATTTTAGAAAGTTC-3'	408bp	56 °C	custom
	R	5'-AAAAGTTTCAGTTTACCAATTTCC-3'			
11q	F	5'-TCAATTTCAACAAGCAAACAACA-3'	521bp	62 °C	custom
	R	5'-TCAAACCATACTCCCCAAA-3'			
12	F	5'-AGTGGTGTTTTAAAGTGGTCAAAA-3'	388bp	55 °C	bic
	R	5'-GGATCCACCTGAGGTCAGAATA-3'			

13	F	5'-TGCTGATTTCTGTTGTATGCTTG-3'	546bp	61 °C	custom
	R	5'-TCCTCTCAACCTTAGTACTTCATCC-3'			custom
14	F	5'-ACCATGTAGCAAATGAGGGTCT-3'	557bp	62 °C	bic
	R	5'-GCAAAAATTCATCACACAAATTGTC-3'			bic
15	F	5'-GGCCAGGGTGTGCTTTTT-3'	314bp	54 °C	bic
	R	5'-AGGATACTAGTTAATGAAATA-3'			bic
16	F	5'-TTTGGTAAATTCAGTTTTGGTTTG-3'	350bp	59 °C	bic
	R	5'-GAGAAGAAAGAGGGATGAGGG-3'			custom
17	F	5'-CACCATGCTCAGCAATGAAG-3'	485bp	57 °C	custom
	R	5'-CACTGACAACCTGGCTTGTGC-3'			custom
18a	F	5'-TGATCCACTATTTGGGGATTG-3'	466bp	56 °C	custom
	R	5'-GAGGGGAGGATCTAACTGGG-3'			custom
18b	F	5'-ATGGAAAGGGATGACACAGC-3'	502bp	62 °C	custom
	R	5'-CTCAAGAAAGATCTCTGGACCTC-3'			custom
19	F	5'-AAGTGAATATTTTAAGGCAGTT-3'	296bp	56 °C	bic
	R	5'-TATATGGTAAAGTTTCAAGAAT-3'			bic
20	F	5'-CAAGTAGCTGAGCCACCACA-3'	623bp	56 °C	custom
	R	5'-ACAAAAATGCAAAAGCCACA-3'			custom
21	F	5'-TGCTTGGTTCTTTAGTTTTAGTTGC-3'	261bp	60 °C	custom
	R	5'-GAGTCTAAAACAGCTTCTCACCTTG-3'			custom
22	F	5'-AACCACACCCTTAAGATGAGC-3'	455bp	61 °C	bic
	R	5'-GGGCATTAGTAGTGGATTTTGC-3'			bic
23	F	5'-GCAAAATCCACTACTAATGCCC-3'	350bp	57 °C	custom
	R	5'-TGGAGATTCCATAAACTAACAAGC-3'			custom
24	F	5'-CCGGTACAAAACCTTTCATTG-3'	329bp	58 °C	custom
	R	5'-TGCCAACCTGGTAGCTCCAAC-3'			custom
25	F	5'-TGCATCTTAAAATTCATCTAACACATC-3'	383bp	62 °C	custom
	R	5'-AAGCTATTTCTTGATACTGGACTG-3'			custom
26	F	5'-TGACAATTGGTATCACATTTAGGG-3'	421bp	59 °C	custom
	R	5'-CAGGAGCCACATAACAACCA-3'			custom
27a	F	5'-TAGGGGAGGGAGACTGTGTG-3'	383bp	59 °C	custom
	R	5'-ACTCCTTGGTGGCTGAAATG-3'			custom
27b	F	5'-GAAAGAGATTGATGACCAAAAAGAA-3'	401bp	61 °C	custom
	R	5'-GAGATGTAGTACAACGTCGTTTCAG-3'			custom
27c	F	5'-CTGAATTCTCCTCAGATGACTCC-3'	447bp	61 °C	custom
	R	5'-AAACGCTGAGGTAAATTTGAAAC-3'			custom
27d	F	5'-GGCCAGTACGGAAGAATGTG-3'	556bp	62 °C	custom
	R	5'-CCTCATTCCATTTAATGACACAA-3'			custom