

Supplementary Table 3: Primers sequences

BRCA1

Exon	Fragment lenght	primer	
2	164	2-1F	M13-ATGATAAAATGAAGTTGTC
		2-1R	M13-ACACTCTAAGATTTTCTGC
	162	2-2F	M13-TTATCTGCTCTTCGCGTTG
		2-2R	M13-CTTCCCTAGTATGTAAGGTC
3	191	3F	M13-GCTCAAAGTTGAACTTATTCAC
		3R	M13-CAAAAGCTAATAATGGAGCCAC
5	193	5F	M13-GCCTTTTGAGTATTCTTTCTAC
		5R	M13-TCCTACTGTGGTTGCTTCC
6	173	6F	M13-GGTTGATAATCACTTGCTG
		6R	M13-CACTTGAGTGTCATTCTTG
7	334	7F	M13-GAGCATACATAGGGTTTCTCTTGG
		7R	M13-GAAGAAGAAGAAGAAAACAAATGG
8	240	8F	M13-GTCAAGTTTCTCTTCAGGAG
		8R	M13-CTATAAGATAAGGAATCCAGC
9	213	9F	M13-CCTGCCACAGTAGATGCTCAG
		9R	M13-GGAAAATACCAGCTTCATAGACAAAGG
10	180	10F	M13-CATTTGACAGTTCTGCATAC
		10R	M13-CTTTCAGTGCCTGTTAAGTTG
11	136	11-1F	M13-CCAAGGTGTATGAAGTATG
		11-1R	M13-TATTACTGGGTTGATGATGTTC
	204	11-2F	M13-CAGCTGCTTGTGAATTTTCTG
		11-2R	M13-ATAAACTGCTGTTCTCATGC
	271	11-3F	M13-GCACAAATACTCATGCCAGCTC
		11-3R	M13-CTAGGATTCTCTGAGCATGGC
	221	11-4F	M13-GTGTGAGAGAAAAGAATGG
		11-4R	M13-CATCTACCTCATTTAGAACG
	281	11-5F	M13-GAATCAAATGCCAAAGTAGC
		11-5R	M13-CGCTTTAATTTATTTGTGAGGG
	289	11-6F	M13-CTAATTATAGGAGCATTTGTTAC
		11-6R	M13-CTTTTTTCGAGTGATTCTATTGG
	236	11-7F	M13-CAAAAGGTGATTCTATTCAG
		11-7R	M13-ATTAGGTGGGCTTAGATTTTC

11	241	11-8F	M13-GGA AGT CTT CTA CCA GGC
		11-8R	M13-GTTAACTTCAGCTCTGGGAAA
	265	11-9F	M13-GGTAAAGAACCTGCAACTGGAG
		11-9R	M13-GCAAAACCCTTTCTCCACTTAAC
	289	11-10F	M13-CCTAGCCTTCCAAGAGAAG
		11-10R	M13-CCATGAATTAGTCCCTTGG
	273	11-11F	M13-GGAAGGCAAAAACAGAAC
		11-11R	M13-CACATTCTCTTCTGCATTTCT
	202	11-12F	M13-CATTCAAGGTTTCAAAGCGCC
		11-12R	M13-CCAACCACAGGAAAGCCT
	211	11-13F	M13-CCAAAAGTCACTTTTGAATGTG
		11-13R	M13-TAATGAGTCCAGTTTCGTTG
	221	11-14F	M13-GCCAAATGTAGTATCAAAGGAGG
		11-14R	M13-CCCATTTCTCTTTCAGGTGA
	213	11-15F	M13-GAAAAATCTGCTAGAGGAAAAC
		11-15R	M13-TCATCACTGGAACCTATTTCT
	253	11-16F	M13-GTAGGTTCCAGTACTAATGAAG
		11-16R	M13-CTGAAATCAGATATGGAGAGAAATC
	141	11-17F	M13-GCAAGAATATGAAGAAGTAGTTC
		11-17R	M13-CCATCATCTAACAGGTCATC
	234	11-18F	M13-CCATATCTGATTTTCAGATAACTTA
		11-18R	M13-GATAAGTTCTCTTCTGAGGACTC
	258	11-19F	M13-GCAGGAGTCCTAGCCCTTTC
		11-19R	M13-GGTTACTGCAGTCATTTAAGCTATTC
	178	11-20F	M13-GTCTGTCTAAGAACACAGAGG
		11-20R	M13-CCAATCAAGAAAGGATCCTGG
	251	11-21F	M13-GTTTTCTTCACAGTGCAGTG
		11-21R	M13-AAATAGACTGGGGCAAACAC
12	246	12F	M13-GCAAGTTGCAGCGTTTATAG
		12R	M13-GGATACATACTACTGAATGCAAAG
13	260	13F	M13-GGAAAGCTTCTCAAAGTATTTCT
		13R	M13-GCTTAAGATATCAGTGTTTGG

14	216	14F	M13-CAGAACAAAGCAGTAAAGTAG
		14R	M13-AAGATGTCAGATACCACAGC
15	166	15-1F	M13-CAATTGGTGGCGATGGTTTTTC
		15-1R	M13-CTCCTCCACATCAACAACC
	163	15-2F	M13-GAAACTACCCATCTCAAGAGGAG
		15-2R	M13-CAGAGTAAATCAAAGTGTTTGTCC
16	263	16-1F	M13-CAGAGACCAGAACTTTGTAATTCAAC
		16-1R	M13-CCAGCAGTATCAGTAGTATGAGC
	218	16-2F	M13-GAAAGTTGCAGAATCTGCCC
		16-2R	M13-GTTGTTAAGTCTTAGTCATTAGGG
17	173	17F	M13-GTGCTAGAGGTAACATCATG
		17R	M13-CAGCAGATGCAAGGTATTC
18	201	18F	M13-GGCTCTTTAGCTTCTTAGGAC
		18R	M13-TCTGAGGTGTAAAGGGAGG
19	162	19F	M13-CCTCTCTATCTCCGTGAAAAGAG
		19R	M13-CTATATGACTGAATGAATATCTCTGG
20	187	20F	M13-CTGCTCCACTTCCATTGAAG
		20R	M13-GAGATTTTTGTCAACTTGAGGG
21	142	21F	M13-CCTTCTCTCCATTCCCCTG
		21R	M13-AAGGCTGGTGCTGGAAGTC
22	170	22F	M13-GCCTGGGTAAAGTATGCAG
		22R	M13-ATTGTGTCCTCCCTCTCTG
23	155	23F	M13-GTGACAGTTCCAGTAGTCCTAC
		23R	M13-CCCATATAGCACAGGTACATGC
24	212	24F	M13-GAGCCTAGTCCAGGAGAATG
		24R	M13-TGTGGCTCTGTACCTGTGG

BRCA2

Exon	Fragment lenght	primer	
2	271	2F	M13-CCAGCGCTTCTGAGTTTTAC
		2R	M13-GTGACGTACTGGGTTTTTAGC
3	343	3F	M13-GGGTCACAAATTTGTCTGTCAC
		3R	M13-GTAGTTCTCCCCAGTCTACC
4	258	4F	M13-CCAGAGTATATACATTCTCAC
		4R	M13-GGCTCTTAGCCAAAATATTAG
5+6	435	5/6F	M13-GTGTTGGCATTTTAAACATCAC
		5/6R	M13-GCTATTGTCAAATTCTCAATTAC
7	211	7F	M13-CCTTAATGATCAGGGCATTTTC
		7R	M13-CCTCATCTGCTCTTTCTTG
8	268	8F	M13-GATGTGCTTTTTGATGTCTGAC
		8R	M13-CCAGGTTTAGAGACTTTCTC
9	322	9F	M13-GGACCTAGGTTGATTGCAG
		9F	M13-GGTGACAGAGCAAGACTCC
10	293	10-1F	M13-CAGGAGAAGGGGTGACTG
		10-1R	M13-GGTATCTACAAGTGTTCATATAC
	223	10-2F	M13-GATGAAGTATATGAAACAGTTGT
		10-2R	M13-CTAATGGATCAGTATCATTTGG
	206	10-3F	M13-CTCATTTGTATCTGAAGTGG
		10-3R	M13-GGTCACATGAAGAAATATGC
	181	10-4F	M13-GGAGCCCAGATGGAGAAAAT
		10-4R	M13-CCACTGTTTCCTCATTTAATGG
	243	10-5F	M13-GCCACGTATTTCTAGCCTAC
		10-5R	M13-GGATCAGTCATATGACCTGAA
	310	10-6F	M13-CTTTCAATGCAAGTTTTTCAGG
		10-6R	M13-GCTGAACAGTTAATTAGTTCTG
11	302	10-7F	M13-GGAAAAAAAAATACCGAAAGACC
		10-7R	M13-CCTGATTCTAAACACTGGTAA
	220	11-1F	M13-AATGTGATTGATGGTACTTTAATTTTG
		11-1R	M13-GATCATTTTCACACTGTCCTTC
	270	11-2F	M13-CCAGAAGCTGATTCTCTGT
		11-2R	M13-CCTTGGAAGTAGGAGTTAAAA
	282	11-3F	M13-GGAATACAGTGATACTGACTTTC
		11-3R	M13-GGTGGCAACAGCTCAACG
11	232	11-4F	M13-CCCATGGAAAAGAATCAAGATG
		11-4R	M13-CCTTAGTATTTCTAAAGCAAGA
	232	11-5F	M13-CCAGACTCTGAAGAACTTTTC
		11-5R	M13-CCTCTGCAAGAACATAAACC

11	298	11-6F	M13-CCCATTTTCAAGAACTCTACC
		11-6R	M13-GCTTGATTTCCTTATTTGAAGCT
	295	11-7F	M13-GGTCCAATTTCAAATCACAG
		11-7R	M13-CCTGCTTGAAAAATAACATC
	252	11-8F	M13-GCCTCAGTCAATTAATACTG
		11-8R	M13-GGCACTTCAAATGTACTCTTC
	207	11-9F	M13-GGAAGTCAGTTTGAATTTACTC
		11-9R	M13-CCGTTTAATTTCAACTGTACC
	233	11-10F	M13-GGAATGCAGAGATGCTGAT
		11-10R	M13-GCAGAGCTTCAGTAGAAAC
	266	11-11F	M13-GGTTTAGGGGCTTTTATTCTG
		11-11R	M13-GCCAGTAGTCATTTCAATATTATT
	253	11-12F	M13-GGTACATCCAATAAGTTTATCTTc
		11-12R	M13-GCCATCAAATTCTAAGTTATGAG
	198	11-13F	M13-CTGAAAATTACAAGAGAAATACTG
		11-13R	M13-CCTCCTTCATAAACTGGCC
	235	11-14F	M13-GCACAACATATGTCTTAAATTATCT
		11-14R	M13-GGCGACACTAATATTTTTCCC
	294	11-15F	M13-CTGCTACTAAAACGGAGCA
		11-15R	M13-CCTGGAAGGTCACTAGTTG
	272	11-16F	M13-GGAAACAGACATAGTTAAACAC
		11-16R	M13-CCTCTCTGTACTTTAGGGT
	299	11-17F	M13-GGTACTAGTGAAATCACCAGT
		11-17R	M13-GGACTTTTTTGCTGTTTCTTTTTTC
	273	11-18F	M13-GCCACCTAAGCTCTTAAGT
		11-18R	M13-GGTTGACCATCAAATATTCC
	248	11-19F	M13-CCTTAGCTTTTTACACAAGTTG
		11-19R	M13-GGAATAGCTGTTAGACATGC
	276	11-20F	M13-GCTGAAAATGACAAAAATCATCTC
		11-20R	M13-GCTAGTCACAAGTTCCTCAAC
	287	11-21F	M13-GCAAATGCATACCCACAAAC
		11-21R	M13-GCTAGTCACAAGTTCCTCAAC
	341	11-22F	M13-CGTTTGTGTTTCACATGAAAC
		11-22R	M13-CCTGCCATAATTTTCGTTTGG
	286	11-23F	M13-CCTTGTGATGTTAGTTTGAAAC
		11-23R	M13-GGGATATTAAATGTTCTGGAGTAC
	275	11-24F	M13-GCTCACAAGAGAAGAAAATAC
		11-24R	M13-GCTCTGGGTTTCTCTTATC
	283	11-25F	M13-CCTACGTCTAGACAAAATGTATC
		11-25R	M13-CGTTTTTAGGTGAAGCCTG
	281	11-26F	M13-GGTGGTTCCTCAGAAAATAATC
		11-26R	M13-GCTTTAGCAATTTCTACTGCTT

	300	11-27F	M13-CCTGTGAAAACAAATATAGAAGTTTG
		11-27R	M13-CCAAGTCTACTGAATAAACAC
	215	12F	M13-GGTCTATAGACTTTTGAGAAATAAA
		12R	M13-CCATACCTATAGAGGGGAGAAC
13	218	13F	M13-GCCTATAATTGTCTCAAATTTTTTG
		13R	M13-CGAGACTTTTCTCATACTGTATTA
14	286	14-1F	M13-CCATGTAGCAAATGAGGGT
		14-1R	M13-CCTGTAGTAATCAAGTGTCTC
	200	14-2F	M13-GGAAAAATCTTCAAGCAATTTAGC
		14-2R	M13-GCTTTTGTCTGTTTTCTCCTCAA
	184	14-3F	M13-GGAAAACAGACAAAAGCAAAAC
		14-3R	M13-GGCAAAAATTCATCACACAAATTG
15	282	15F	M13-GGGGTTGTGCTTTTTAAATTC
		15R	M13-CACTCTGTCATAAAAGCCATC
16	335	16F	M13-GGTAAATTCAGTTTTGGTTTGTTA
		16R	M13-GGATGAGGGAATACATAAAAG
17	326	17F	M13-GTACAGAGAATAGTTGTAGTTG
		17R	M13-GGAAGTCACAGACTACACAGA
18	335	18-1F	M13-CTCAGTTATTCAGTGACTTGT
		18-1R	M13-GCCATTCTTTAAGACAGCTAA
19	219	18-2F	M13-TGAACTTACAGATGGGTGG
		18-2R	M13-CTGAATCAATGACTGATTTTTACC
	341	19F	M13-GGCAGTTCTAGAAGAATGAAAA
		19R	M13-GCAAGAGACCGAAACTCC
20	299	20F	M13-GGATTACAGATGTGAGCCA
		20R	M13-GTCTCTAAGACTTTGTTCTCATA
21	247	21F	M13-GCTTGGTTCTTTAGTTTGTAGTTG
		21R	M13-CTTCTCACCTTGAATAATCATC
22	191	22-1F	M13-GGAACTTTTTTGTCTGATTGC
		22-1R	M13-CCCTTGATAAACCTTGTTCC
	252	22-2F	M13-GAGCCTTGAATAATCACAGG
		22-2R	M13-GGATTTATAATCATTTTGTTAGTAAG
23	212	23-1F	M13-GAGGATCTGTATTTATTTTGAAAC
		23-1R	M13-GCTAACTGTATGTTAGCTCTTTC
24	171	23-2F	M13-CAGAAGGAAAGAGATACAGAAT
		23-2R	M13-CCATAAACTAACAAGCACTTATC
	284	24F	M13-CTTGTTAGTTTATGGAATCTCC
		24R	M13-CCAAGTGGTAGCTCCAAC
25	159	25-1F	M13-GCATCTTAAAATTCATCTAACAC
		25-1R	M13-CATATGAGGCTTAATAATGTCC
	234	25-2F	M13-GGCAATAAAGTTTTGGATAGAC
		25-2R	M13-CCAAAATGTGTGGTGATGC

26	268	26F	M13-GGAAATACTTTTGGAACATAAATAT
		26R	M13-GGCCTCCATATATACTTCTTA
27	241	27-1F	M13-GCGTGCTTAAATATTTTCAATGAA
		27-1R	M13-GCAGTTCTTTTGGTCATCAATC
	235	27-2F	M13-CCCAGATGACTTCAAAGTC
		27-2R	M13-GGAGTCATCTGAGGAGAATT
	187	27-3F	M13-CTGCACAGAAGGCATTTCA
		27-3R	M13-CCAGACAAAAGAGCTTGGG
	227	27-4F	M13-GGAAAGTAATTCAATAGCTGAC
		27-4R	M13-CCTGCTTATTTTCTCACATTC
	179	27-5F	M13-CCACCAGTTCAGAAGATTATC
		27-5R	M13-GGTTAAGCGTCAATAATTTATTG