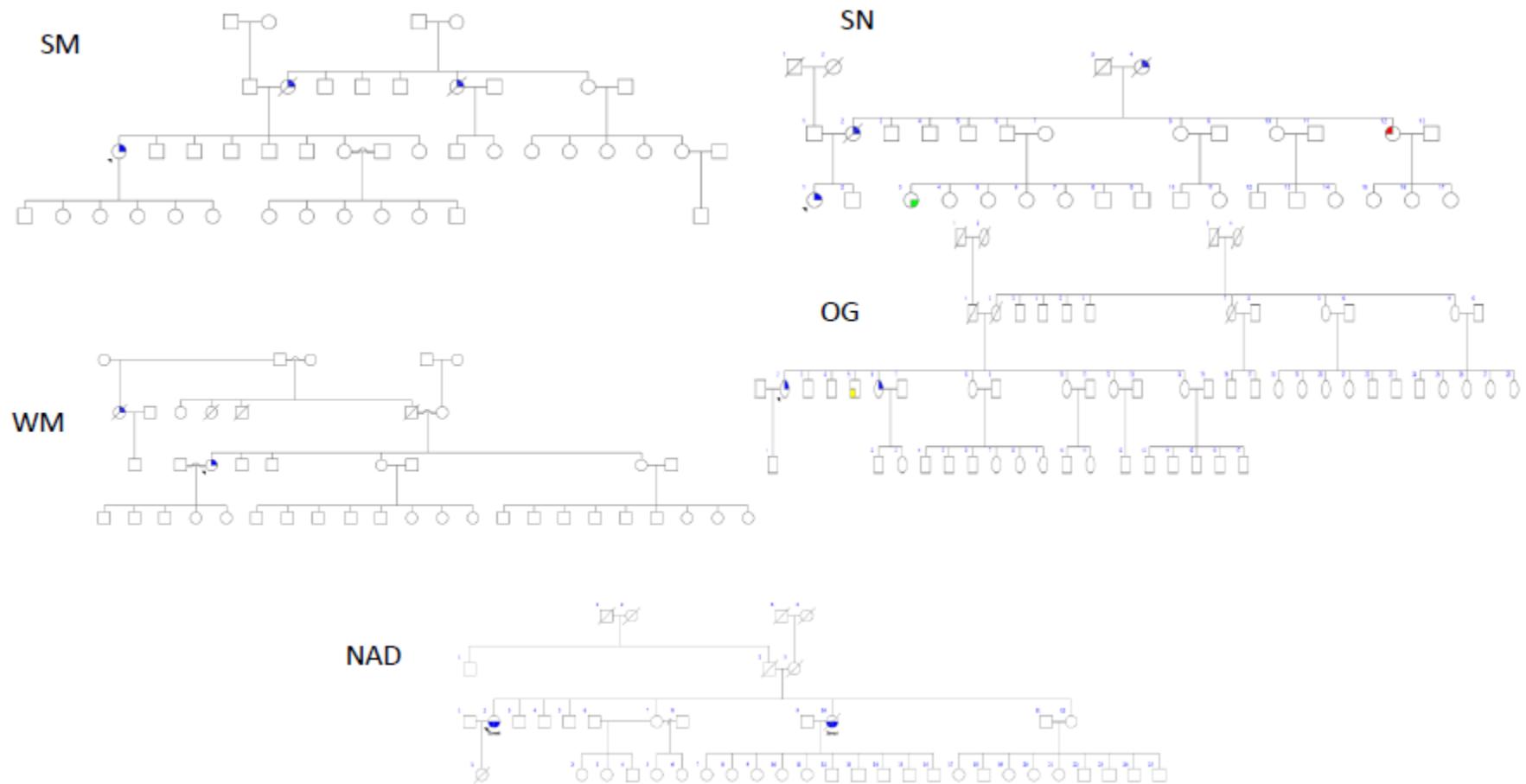


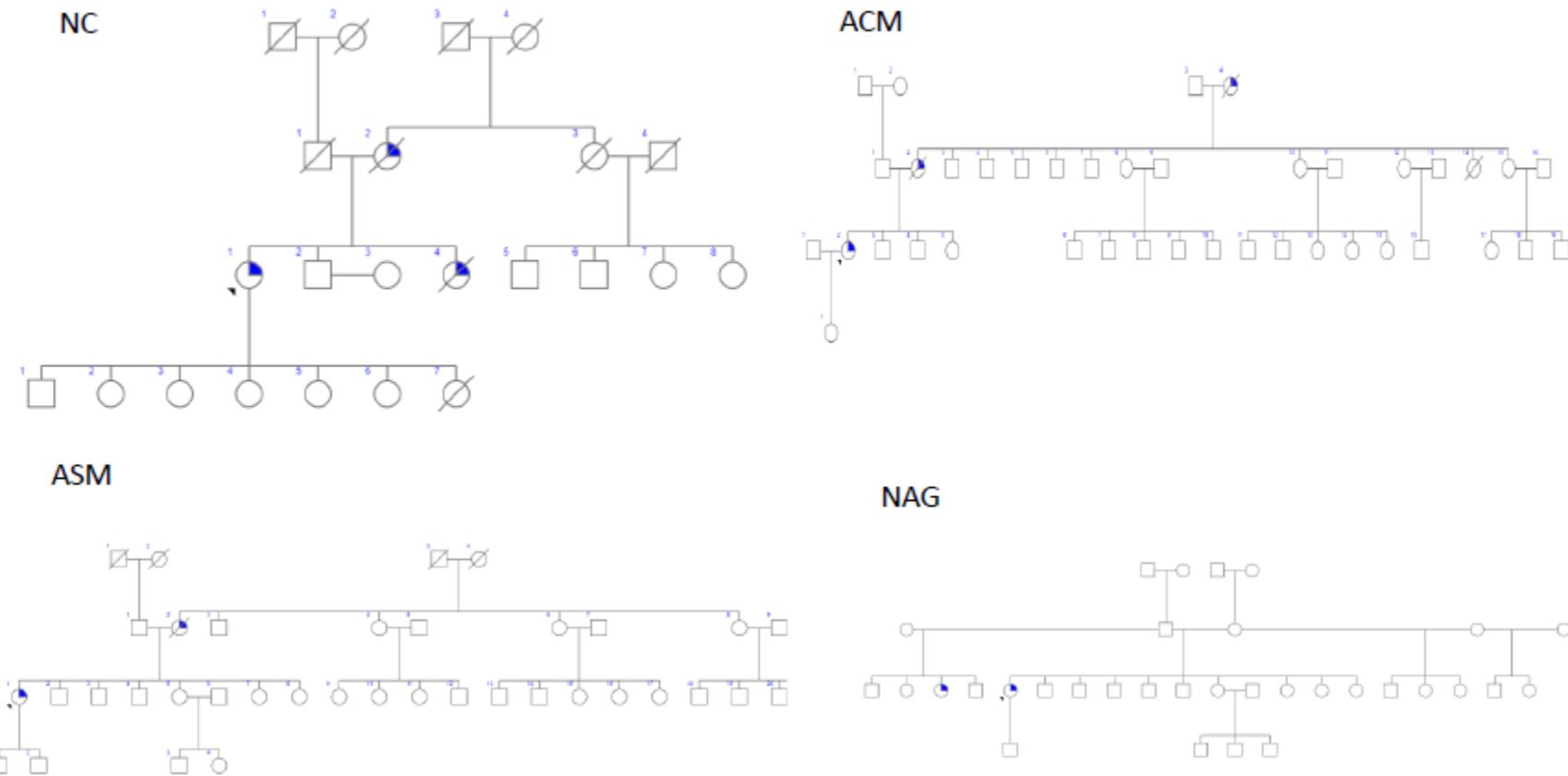
Supplementary Table I: Primers used for BRCA1 coding exons PCR amplification

Exon	Primers		Fragment Length (bp)
	Primer F	Primer R	
2	TGTAAAACGACGCCAGTGGACGTTGTCATTAGTTCTTGG	CAGGAAACAGCTATGACCCTTTCTCCCTAGTATGTAAGGTCA	350
3	TGTAAAACGACGCCAGTTCTCAGTTCCTGACACAGCAG	CAGGAAACAGCTATGACCAAGTTAGGTGTTCTGGGTTATG	315
5	TGTAAAACGACGCCAGTTCATGGCTATTGCCTTTG	CAGGAAACAGCTATGACCTCTACTTTCTACTGTGG	232
6	TGTAAAACGACGCCAGTGGTTCTACTGTTGCTGCATCT	CAGGAAACAGCTATGACCCACACGTAGAAAGTAATTGT	312
7	TGTAAAACGACGCCAGTCACAACAAAGAGCATACTAGGG	CAGGAAACAGCTATGACCCAGCTACTAAGGGGGCTA	370
8	TGTAAAACGACGCCAGTTGTTAGCTGACTGATGATGGT	CAGGAAACAGCTATGACCCACTCCAAAGCTGCCTAC	315
9	TGTAAAACGACGCCAGTCCTGCCACAGTAGATGCTCA	CAGGAAACAGCTATGACCTGCACATACATCCCTGAACC	312
10	TGTAAAACGACGCCAGTTGGTCAGCTTCTGTAATCG	CAGGAAACAGCTATGACCGTATCTACCCACTCTTTCTAG	259
11T1	TGTAAAACGACGCCAGTATATAGCCAGTTGGTTGATT	CAGGAAACAGCTATGACCCACTCTGGAAAACCACTC	610
11T2	TGTAAAACGACGCCAGTCCTAGAGATACTGAAGATGTT	CAGGAAACAGCTATGACCGAATAGAATCACCTTTGTT	670
11T3	TGTAAAACGACGCCAGTCAAACGGAGCAGAATGGTC	CAGGAAACAGCTATGACCGACACTTAACTGTTCTAG	621
11T4	TGTAAAACGACGCCAGTAAGTGTCAAATACCACTGAAC	CAGGAAACAGCTATGACCCATTAGACTCATTCTTCCTTG	634
11T5	TGTAAAACGACGCCAGTCACTCTGGGTCTTAAAGAAC	CAGGAAACAGCTATGACCCCTAATCTAAGCATAGCATT	605
11T6	TGTAAAACGACGCCAGTGAAATAGGTTCCAGTGATG	CAGGAAACAGCTATGACCCAATGATAATAAATTCTCCTC	620
11T7	TGTAAAACGACGCCAGTTCTCAGTCTACTAGGCATAGC	CAGGAAACAGCTATGACCTTGGAAATTGTAATGTGC	494
12	TGTAAAACGACGCCAGTTGTCCTGCCAATGAGAAGAAA	CAGGAAACAGCTATGACCTGTCAGCAAACCTAAGAATGT	280
13	TGTAAAACGACGCCAGTAATGGAAAAGCTTCTCAAAGTA	CAGGAAACAGCTATGACCATGTTGGAGCTAGGTCTTAC	336
14	TGTAAAACGACGCCAGTTGTGTATCATAGATTGATGCTTGA	CAGGAAACAGCTATGACCAAACAAAAGAAGTATCCTAGAGCAA	394
15	TGTAAAACGACGCCAGTCATGAGCTTTCTTATGCTT	CAGGAAACAGCTATGACCGAGCTATTTCTAAAGTGGGCTTA	451
16	TGTAAAACGACGCCAGTAATTCTAACAGAGACCAGAAC	CAGGAAACAGCTATGACCAAACACTCTTCCAGAATGTTGT	459
17	TGTAAAACGACGCCAGTAATAGTCCAGGACACGTG	CAGGAAACAGCTATGACCCATGCTGGCCAGGATG	386
18	TGTAAAACGACGCCAGTAGGCTCTTAGCTTCTAGGA	CAGGAAACAGCTATGACCAAGACCTTTGGTAACTCAGA	290
19	TGTAAAACGACGCCAGTCTGTCATTCTCCTGTGCTC	CAGGAAACAGCTATGACCCATTGTTAAGGAAAGTGGTGC	262
20	TGTAAAACGACGCCAGTTGACGTTGCTGCTCCACTTC	CAGGAAACAGCTATGACCCCTGTTGAAAGTATCTAGCACTG	310
21	TGTAAAACGACGCCAGTCAGGTGGTAAACAGAAGAAAAA	CAGGAAACAGCTATGACCGAACATTCAGCAATCTGAGG	308
22	TGTAAAACGACGCCAGTTCCCATTGAGAGGTCTGCT	CAGGAAACAGCTATGACCGAACATTCAGCAATCTGAGG	308
23	TGTAAAACGACGCCAGTCAGAGCAAGACCCCTGTCTC	CAGGAAACAGCTATGACCACTGTGCTACTCAAGCACCA	312
24	TGTAAAACGACGCCAGTCCTGGAGTCGATTGATTAGAGC	CAGGAAACAGCTATGACCGAAGGACTGAAGAGTGAGAGGAG	404

Supplementary Table 2: Fluorescent labelled primers used for microsatellite markers genotyping

Microsatellite marker	Primer F	Primer R	Size(bp)	DYE
D17S1183	TTAGCTGTGACCATATTGTATTG	CAATTAAATATGTAGCTAGTGGCT	165	6-FAM
D17S1320	ACTTTCCAGAAAATCTCTGCTC	CCACGTCTTCTGTGTTCC	180	HEX
D17S1323	TAGGAGATGGATTATTGGTG	AAGCAACTTGAATGAGTG	155	6-FAM
D17S1325	AAAGGTGGCAATTACAGTTG	GTGATAAAACTCAGTGGTACTC	155	HEX
D17S1793	CCAGCCCAGGTTACATC	CACCAGTTCCCTGCGAG	163-169	6-FAM
D17S855	GGATGGCCTTTAGAAAGTGG	ACACAGACTTGTCCCTACTGCC	143	CY3, 5
D17S951	GGCCTCCAAACTGCTT	TCTACCCCGATGAGCCA	170-188	CY3, 5





Supplementary Figure 1: Pedigrees of the 9 other *BRCA1* mutation carriers identified by PCR genotyping.



Supplementary Figure 2: Uncropped images of 4% agarose gel electrophoresis of PCR products from the 15 index cases carrying the pathogenic variant
(Each gel derived from a single experiment)

A: NAD-ACM from the second group of 12 recruited index cases

B: ASM-OG-NC from the second group of 12 recruited index cases

C: AB-FY-FGF-FW-ML-AT from the first group of 15 recruited index cases and SN-WM-SM-NAG from the second group of 12 recruited index cases

PM: Molecular weight marker; **TN:** DNA negative control; **T-:** mutation non-carrier control; **T+:** Mutation carrier control