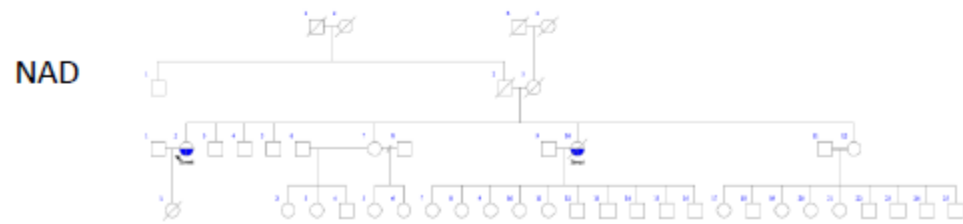
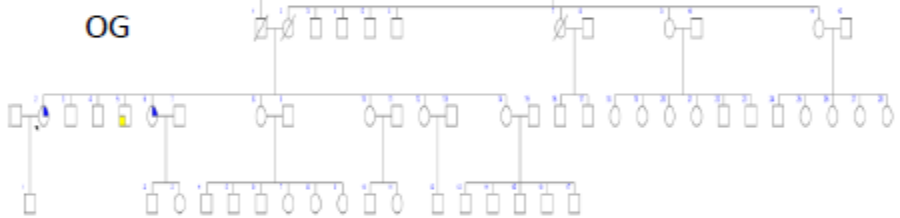
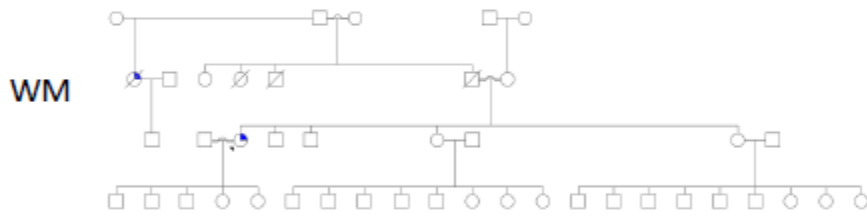
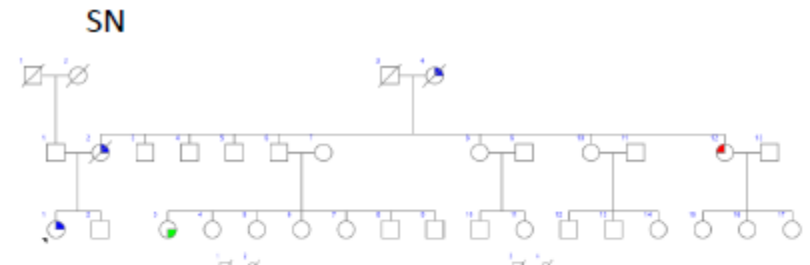
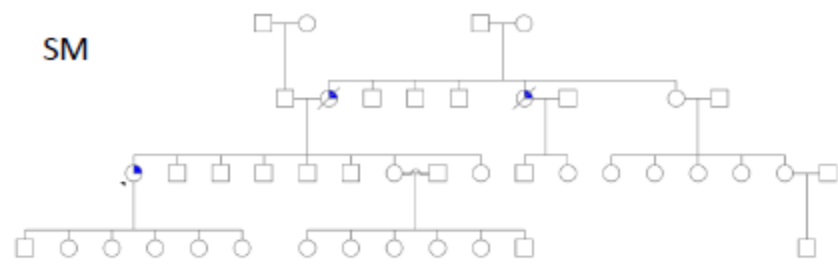


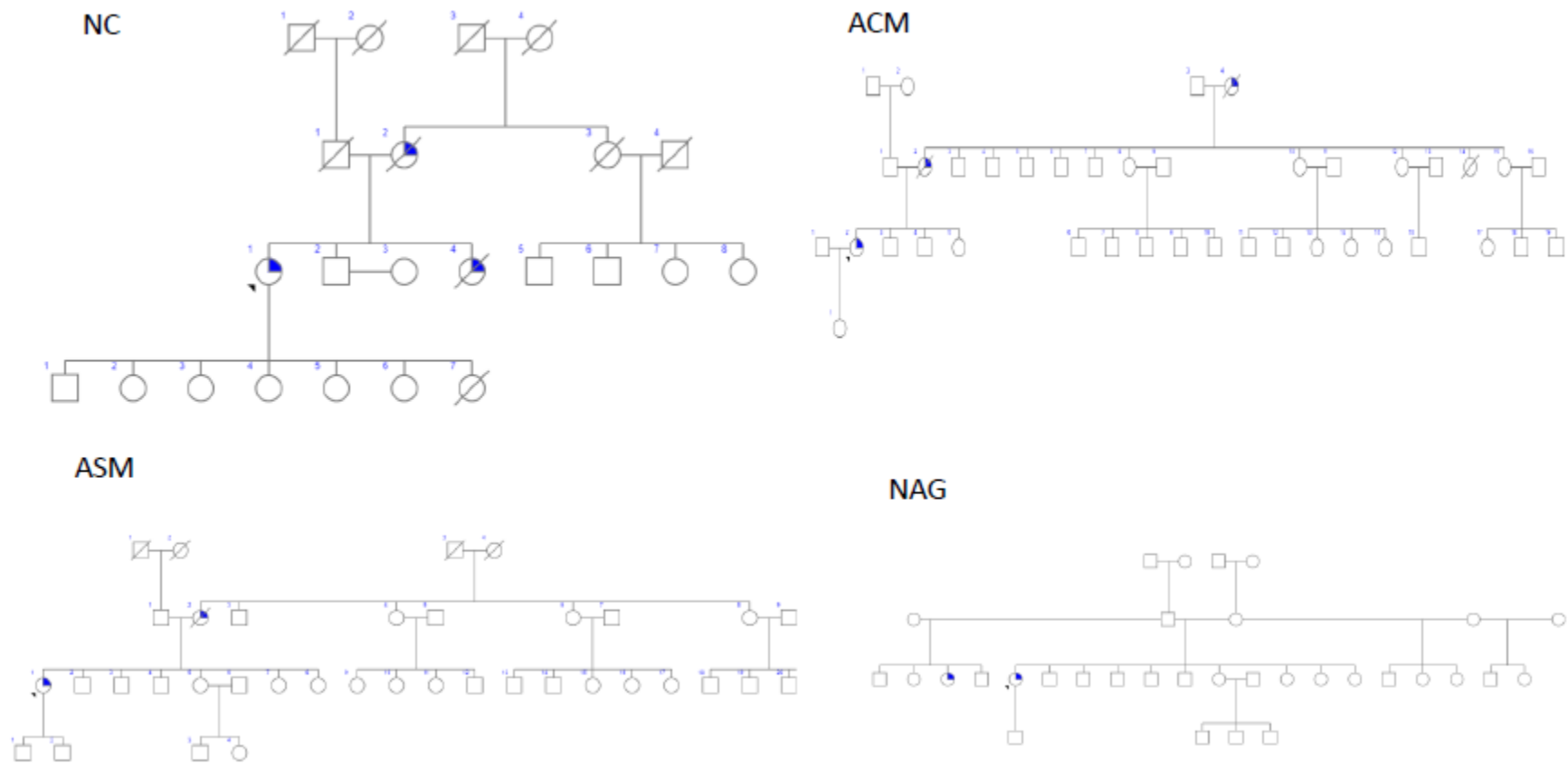
**Supplementary Table I:** Primers used for BRCA1 coding exons PCR amplification

Exon	Primers		Fragment Length (bp)
	Primer F	Primer R	
2	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCTCTTTTCTCCCTAGTATGTAAGGTCA	350
3	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCAAGTTAGGTGTTTCTGGGTTATG	315
5	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCTCTACTTTTTCTACTGTGG	232
6	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCACCACGTCATAGAAAGTAATTGT	312
7	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCCCAGCTACTAAGGGGGCTA	370
8	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCACTTCCCAAAGCTGCCTAC	315
9	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCTGCACATACATCCCTGAACC	312
10	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGTATCTACCCACTCTCTTTTCAG	259
11T1	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCATCACTTCTGGAAAACCACTC	610
11T2	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGAATAGAATCACCTTTTGTTT	670
11T3	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGACACTTTAACTGTTTCTAG	621
11T4	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCATTAGACTCATTCTTTCTTG	634
11T5	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCCTAATCTAAGCATAGCATT	605
11T6	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCAATGATAATAAATTCCTC	620
11T7	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCCTGGAAATTTGTA A AATGTGC	494
12	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCTGTCAGCAAACCTAAGAATGT	280
13	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCATGTTGGAGCTAGGTCCTTAC	336
14	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCAAAACAAAAGAATATCCTAGAGCAA	394
15	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGAGCTATTTTTCTAAAGTGGGCTTA	451
16	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCAAAACTCTTTCCAGAATGTTGT	459
17	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCACCATGCTGGCCAGGATG	386
18	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCAAGACCTTTTGTA AACTCAGA	290
19	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCATTGTTAAGGAAAGTGGTGC	262
20	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCTGTGTGAAAGTATCTAGCACTG	310
21	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGAACATTTTCAGCAATCTGAGG	308
22	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGAACATTTTCAGCAATCTGAGG	308
23	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCCTGTGCTACTCAAGCACCA	312
24	TGTA AACGACGGCCAGT	CAGGAAACAGCTATGACCGAAGGACTGAAGAGTGAGAGGAG	404

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

<b>Microsatellite marker</b>	<b>Primer F</b>	<b>Primer R</b>	<b>Size(bp)</b>	<b>DYE</b>
D17S1183	TTAGCTGTGACCATATTGTATTG	CAATTTAATATGTAGCTAGTGGCT	165	6-FAM
D17S1320	ACTTTCCAGAAAATCTCTGCTC	CCACGTCTTTTCTGTGTTCC	180	HEX
D17S1323	TAGGAGATGGATTATTGGTG	AAGCAACTTTGCAATGAGTG	155	6-FAM
D17S1325	AAAGGTGGCAATTCACAGTTG	GTGATAAAACTCAGTGGTACTC	155	HEX
D17S1793	CCAGCCCAAGGTTTACATC	CACCAGTTCCTGCGAG	163-169	6-FAM
D17S855	GGATGGCCTTTTAGAAAGTGG	ACACAGACTTGCCTACTGCC	143	CY3, 5
D17S951	GGCCTCCCAAAGTCTT	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