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| **MALDI-TOF MASS SPECTROMETRY PRIMERS TABLE** |

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| --- | --- | --- | --- | --- |
| GENE | MUTATION | PRIMERS | AMPLICON (bp) | |
| BRCA1 | C.1499insA | Fw\_ACGTTGGATGAAGAGTTCACTCCAAATCAG | | 98 |
| Rev\_ACGTTGGATGGGCTTGCCTTCTTCCGATAG | |
| Seq\_AGAGAGTAATATTGAAGACAAAATA | |
| c.309 T>C | Fw\_ACGTTGGATGAGAAGAAAGGGCCTTCACAG | | 121 |
| Rev\_ACGTTGGATGTTTCCTACTGTGGTTGCTTC | |
| Seq\_CCTTCACAGTGTCCTTTA | |
| c.5382insC | Fw\_ACGTTGGATGTTTGTCAACTTGAGGGAGGG | | 95 |
| Rev\_ACGTTGGATGAAACCACCAAGGTCCAAAGC | |
| Seq\_TACCTTTCTGTCCTGGG | |
| c.1207delA | Fw\_ACGTTGGATGATCTGAATGCTGATCCCCTG | | 115 |
| Rev\_ACGTTGGATGCCAAGGAACATCTTCAGTATC | |
| Seq\_ACTGCCATGCTCAGAGA | |
| c.2157\_2160delAGAA | Fw\_ACGTTGGATGTCTTCTCTTGGAAGGCTAGG | | 94 |
| Rev\_ACGTTGGATGCCTGGTTCTTTTACTAAGTG | |
| Seq\_TTCAAATACCAGTGAACTTAA | |
| c.190 T>C | Fw\_ACGTTGGATGAGGCTCCTTTTGGTTATAC | | 86 |
| Rev\_ACGTTGGATGTCTCAACCAGAAGAAAGGGC | |
| Seq\_CCTTCACAGTGTCCTTTA | |
| BRCA2 | c.3109 C>T | Fw\_ACGTTGGATGCAACACAAGCTAAACTAGTA | | 112 |
| Rev\_ACGTTGGATGGGAAATCAAGCTCTCTGAAC | |
| Seq\_CAAGCTAAACTAGTAGGATATT | |
| c.771\_775delTCAAA | Fw\_ACGTTGGATGTTATCGCTTCTGTGACAGAC | | 87 |
| Rev\_ACGTTGGATGGAGGACTTACCATGACTTGC | |
| Seq\_CAGACAGTGAAAACACAAA | |

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| **TAQMAN SNP GENOTYPING ASSAY** | | | | | |
| **MUTATION** | **PRIMERS** | **Tm (°C)** | **CG**  **(%)** | **Length (bp)** | **Fluorescent Dye** |
| *BRCA2* | Fw\_GATAGATTTATCGCTTCTGTGACAGACA | 60 | 39 | 28 |  |
| c.771\_775delTCAAA | Rev\_ACCTGTAGTTCAACTAAACAGAGGACTT | 57,4 | 39 | 28 |  |
|  | Wild-type allele AAACACAAA**TCAAA**GAGAAG | 67 | 30 | 20 | FAM |
|  | Mutated allele TGAAAACACAAAGAGAAG | 66 | 33 | 18 | VIC |

**Supplementary Table 1**. Primers used for the matrix-assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF MS) and SNP Genotyping assays.