Supplementary Table: Technical details and experimental conditions for genotyping

Polymorphism	Forward primer (5'-3')	Reverse primer (5'-3')	Concentration (nM)	Vic-probe	Concentration (nM)	Fam-probe	Concentration (nM)	Annealing temperature
XPD 23591 G>A	CCGCAGGATCAAAGAGACAGA	GCTCACCCTGCAGCACTTC	300	CGTGCTGCCC**A**AC	200	CGTGCTGCCC**G**AC	200	60°C
XPD 35931 C>A	ACCCGCCCCACTCAGAG	AGCCTGGAGCAGCTAGAATCAG	300	TCCTCT**G**CAGCGTCT[b]	200	ATCCTCT**T**CAGCGTCTC[b]	200	60°C
PCNA 6084 G>C	CATATACTGAAGTCTTTTCTGTCACCAAAT	TAACTAGACCAGATCAGACTTTGGACTTT	300	TATTCTCT**C**CAATTTGT	200	TATTCTCT**G**CAATTTG	200	60°C
XRCC1 26304 C>T	GAGGATGAGAGCGCCAACTC	TCCACTACCCTCCTCCCTCAGA	300	CTTCTTCAGC**C**GGATC	200	CTTCTTCAGC**T**GGATCA	200	60°C
XRCC1 26651 G>A	TGGATCCACTTTCTCCCTTCATAG	CACTAGAAGCCTGGAGGGTAGCA	300	CCAGCGACCC**A**GC	200	CAGCGACCC**G**GCAG	200	60°C
XRCC1 28152 G>A	GAGTGGGTGCTGGACTGTCA	GCAGGGTTGGCGTGTGA	300	CCTCCC**G**GAGGTAA	200	CCTCCC**A**GAGGTAAG	200	60°C
XRCC3 17893 A>G	CGGTCGAGTGACAGTCCAAA	TCTTATTCACACACTCCAACAAGGT	300	CAATGAC**G**GCTGTC	200	ACAATGAC**A**GCTGTC	200	60°C
XRCC3 18067 C>T	TGCTCACCTGGTTGATGCA	CCAGGGCCAGGCATCTG	300	CTCACGCAGC**G**TGG[b]	50	CAGC**A**TGGCCCC[b]	200	60°C
APEX 1738 T>G	AAACGAGTCAAATTCAGCCACAA	CCCACCTCTTGATTGCTTTCC	900	ATCATGCTCCTC**C**TC	200	CATGCTCCTC**A**TCG	200	58°C
ERCC1 19007 C>T	AGGGCCCTGTGGTTATCAAG	GGGAATTACGTCGCCAAATT	300	TTCGTGCGCAA**T**GT	200	TTCGTGCGCAA**C**GT	200	60°C
MGMT 127215 C>T	CCCGAGGCTATCGAAGAGTTC	GTTACCGACCTTGCTGGAAAAC	300	CCGGCT**C**TTCACCA	200	CCGGCT**T**TTCACC	200	60°C
BRCA1 Pro871Leu	TCAAGGTTTCAAAGCGCCA	AATGTTGCACATTCCTCTTCTGC	300	ATTTGCTC**C**GTTTTCAAATCCAGGAA	200	TCATTTGCTC**T**GTTTTCAAATCCAGGAA	100	62°C
BRCA2 Asn372His	CTGAAGTGGAACCAAATGATACTGA	AGACGGTACAACTTCCTTGGAGAT	300	TCAAATGTAGCA**C**ATCAGAAGCCCTTTGA	50	ATTCAAATGTAGCA**A**ATCAGAAGCCCTTTGA	100	62°C
LIG 4 Ala3Val	GGCCAGTTAAACGAGAAGATTCA	CAAAAGGAACGTGAGATGCAAC	900	CTTTGATGGCTG**T**CTCACAAACTTCACAA	200	CTTTGATGGCTG**C**CTCACAAACTTCA	200	62°C
LIG 4 Thr9Ile	GCCAGTTAAACGAGAAGATTCATCA	GTTGAACACAAATCTGCAAAAGGA	900	TCACAAACTTCACAAA**T**TGTTGCATCTCAC	200	TCACAAACTTCACAAA**C**TGTTGCATCTCAC	200	62°C
NBS1 Glu185Gln	ACATAATATACCTTTCAATTTGTGGAGG	GACGTCCAATTGTAAAGCCAGAAT	900	TGCTTCTTGGACT**C**AACTGCTT	100	TGCTTCTTGGACT**G**AACTGCTT	100	62°C

				TCAGG[b]		TCAGG		
RAD51 135 G/C	GCAGCGCTCCTCTCTCCAGC	GCTGGGAACTGCAACTCATCT	900	CAACGCCC**G**TGGCTTACGCT	200	CCCCAACGCCC**C**TGGCTTAC	200	62°C
RAD51 172 G/T	GTCCGCAGCCTCCTCTCTC	CAGCTGGGAACTGCAACTCA	900	CCCCGCGGG**A**GTGGCA[b]	200	CCGCGGG**C**GTGGCAC[b]	200	62°C
RAD52 2259 C/T	GTGGTGCAAACACAGCTCTCTC	AGTAATCCCTGTATTTTGTAAGGCAGA	900	ACAACCTCTTGGGC**C**CAAGTGATACT	200	CACAACCTCTTGGGC**T**CAAGTGATACTC	100	62°C
XRCC2 31479 G>A	TCTGCATTATAGTTTGTGTCGTTGC	CGCGTCAATGGAGGAGAAA	900	AAAAGAACCAGG**C**GATAGTCATTTACAAGC[b]	100	CAAAAAGAACCAGG**T**GATAGTCATTTACAAGC[b]	100	62°C
TP53 Arg72Pro	TCCCCGGACGATATTGAACA	CCGCCGGTGTAGGAGCT	900	AGGCTGCTCCCC**G**CGTG	200	TGCCTCCCC**C**CGTGGCC	200	60°C
	Forward primer (5'-3')	**Reverse primer (5'-3')**		**Extension primer (5'-3')**				
OGG1 8055 C>G	CACACAGACTCCACCCTCC	GCCCTTTGGAACCCTTTCT		TGCCGACCTGCGCCAAT				

PCR: 95°C 5' / [95°C 40" – (Tm°C -1°C/cycle) 1' - 72°C 45"] x 7 cycles / [95°C 40" – (Tm°C - 7°C) 1' - 72°C 45"] x 30 cycles / 72°C 10'/ 8°C ∝

PURIFICATION: 37°C 15' / 80°C 15' / 8°C ∝

EXTENSION: 96° 1' / (96° 10" - 43°C 15" - 60° 1') x 50 cycles / 8°C ∝

[a]Polymorphic base underlined
[b]Complementary sequence