

Additional file 1: Table S1 Sequences of the primers

***MRE11* gene:**

Exon	Forward 5'→3'	Reverse 5'→3'	Length bp
5	TGCAGTTTGCCTATGATTGC	AAGGCATGCTTTCCACAGAC	262
9	GAA AGC TTT CGT TTG CAC A	CCT TAC AGG CTT CAT GAG	369
10	AAGCTGCTATTTCAGCCAAGTT	CCGATGGTGATTGCTCTTCT	275
14	ATT GTA GCC CCT TGT TTT A	AGA CCT ATG GAC TGA CTA TT	231
15	CCACTGTGTCAGCCTCCTTT	TTCCACTCAACTGCCAAGTG	395
19	GAA AAA CTT AGC CAG AAA G	CAG CAA CTA GCT GGC AGT	231

***RAD50* gene:**

Exon	Forward 5'→3'	Reverse 5'→3'	Length pz
3	TGCCTTTTTCTCAGAACCAAC	GAAAACAACCATCAACTTACAGACC	296 pz
4	TAAGCAATAGAATAGATACTG	TTCAATAACTTAATGGACTACAA	295 pz
5	GTGACAGCATAATATCCCACTG	TTGATTTAGCCAGTCCACGA	387 pz
7	GGTTTGGTTTATATTTGATACCTCA	TCCTTGGAGATTCTTCATTCA	324 pz

***NBN* gene:**

Exon	Forward 5'→3'	Reverse 5'→3'	Length pz
2	TGTGTATGTGTCTATCAACTTATC	CAA CCC CCT TAC TGGAAACTA	228 pz
5	TTATGGATGTAAACAGCCTC	TACCGAACTATAACACAGCA	328pz
6	CAGATAGTCACTCCGTTTACAA	ACAACTACTGATAAGAGTTA	273pz
7	CCAAATCAAATTCTTATGTGTTCAA	CCGGAGCCAAAAAGAAATTA	168pz
7	CGGGAACGTGTGTTGTTGAT	GAGCAAGACTCCGTCTCAAAA	231pz
10	TTCTCTATTAAAGTTGCTGTA	GATAGTTTGGGATTCTCAT	235pz
10	AGGAGTCTGCAAAACAAGC	GACAATACCATTCTACAACAG	284pz
13	AGATTCCCAAATGACAAGTG	TTAGCATCACTGGTATCTC	299pz