

Supplementary Table 1: Primers for *PIK3CA*, *TERT* and *TP53* mutational analysis and *FUS-DDIT3* fusion variant determination.

Gene	Exon	Forward sequence	Reverse sequence
PIK3CA	9	TGACAAAGAACAGCTCAAAGC	TTAGCACTTACCTGTGACTCCA
PIK3CA	20	TGATGACATTGCATACATTCG	TGTGTGGAAGATCCAATCCA
TERT	promoter	GTAAAACGACGGCCAGCAGCGCTGCCTGAAACTC	GTCCTGCCCTTCACCTT
TP53	4a	CCATCTACAGTCCCCCTTG	ATGATGACAGGGGCCAGGAG
TP53	4b	GCACCAGCAGCTCCTACAC	ATGAGCCCCTCAGGGCAACTG
TP53	5	TTTCAACTCTGTCTCCTTCCTCTT	AGCCCTGTCGTCTCTCCAG
TP53	6	AGGCCTCTGATTCCTCACTG	ATGAGAGACCCCAGTTGCAAACC
TP53	7	CTTGGGCCTGTGTTATCTCC	ATGAGTGTGCAGGGTGGCAAG
TP53	8	TGCTTCTCTTTTCCTATCCTGAG	ATGAGCTTCTTGTCTGCTTGC
TP53	9	ACCTTTCCTTGCCTCTTTCC	ATGAAGAAAACGGCATTGAGTG
TP53	10	CTTCTCCCCCTCCTCTGTTG	ATGAGAAGGGGCTGAGGTCACTC
FUS	5	GCAGAACCAGTACAACAGCA	NA
FUS	6	GAACCCAGAGGTCGTGGAG	NA
FUS	7	GGTGGCTTCAATAAATTTGG	NA
FUS	12	ATGAATGCAACCAGTGTAAGGCC	NA
FUS	13	TAAACCAGATGGCCCAGGAG	NA
DDIT3	2	NA	TGCTTTCAGGTGTGGTGATG
DDIT3	3	NA	GGAGAAAGGCAATGACTCAG

NA = not applicable.