

Supplementary table 5: Summary of aberrations on *ERG* gDNA and mRNA identified in *ERG*-related patients carrying the *ERG* intragenic deletion.

SAMPLE	N. BREAK POINTS	EXON 2-PROXIMAL BREAKPOINT		INSERT	EXON 10-PROXIMAL BREAKPOINT			ABERRANT <i>ERG</i> TRANSCRIPTS
		POSITION	SEQUENCE	SEQUENCE	SEQUENCE	POSITION	INTRON	
1	1	222327	AAAGCCCAAGT	GGCCC	CCTAAACGTTGAGGCCAA	271826	9	EX2-EX10
2	1	222327	AAAGCCCAAGT	AGAGGGCC	AACGTTGAGGCCAA	271830	9	EX2-EX10
3	1	222331	AAAGCCCAAGTGTC	CCCCCAG	CGTTGAGGCCAA	271832	9	EX2-EX10
4	1**	ND	ND	ND	ND	ND	ND	EX2-EX10
5	1**	ND	ND	ND	ND	ND	ND	EX2-EX10, EX2-EX9, EX2-EX8
6	1	222322	AAAGCCC	ATC	TGTTTATCTT	269825	7	EX2-EX10*, EX2-EX9, EX2-EX8
7	1	222329	AAAGCCCAAGTGT	CCCCCCT	TGTGTGTCAGTCTCTGTGCCAAA	271290	9	EX2-EX10
8	2**	ND	ND	ND	ND	ND	ND	EX2-EX9*, EX2-EX8*
		ND	ND	ND	ND	ND	ND	
9	4	222332	AAAGCCCAAGTGTTCA	AACC	CTTCTCAGCCTTC	272238	9	EX2-EX10*, EX2-EX9, EX2-EX8
		222332	AAAGCCCAAGTGTTCA	no insert	ATTTCCTAAACGTTGAGGCCAA	271822	9	
		222325	AAAGCCCAA	no insert	ACGTTGAGGCCAA	271831	9	
		222327	AAAGCCCAAGT	CCCCCCC	TCTTCTCAGCCTTC	272237	9	
10	6	222324	AAAGCCCA	GGTAGG	CTCTGTGCCAAA	271301	9	EX2-EX10, EX2-EX9, EX2-EX8
		222329	AAAGCCCAAGTGT	CCCC	GTCTTCTCAGCCTTC	272234	9	
		222321	AAAGCC	TCGTTGCGCG	TCTTCTCAGCCTTC	272237	9	
		222330	AAAGCCCAAGTGTT	TAGGGAG	ACGTTGAGGCCAA	271831	9	
		222326	AAAGCCCAAG	CGTTA	TATTTCCTAAACGTTGAGGCCAA	271821	9	
		222331	AAAGCCCAAGTGTC	no insert	CCTAAACGTTGAGGCCAA	271826	9	
11	14	222323	AAAGCCCC	CGGCG	CTTCTCAGCCTTC	272238	9	EX2-EX10, EX2-EX9, EX2-EX8
		222327	AAAGCCCAAGT	CGAA	CTTCTCAGCCTTC	272238	9	
		222327	AAAGCCCAAGT	C	CTTCTCAGCCTTC	272238	9	
		222329	AAAGCCCAAGTGT	CCCTCCCC	GTCTTCTCAGCCTTC	272234	9	
		222323	AAAGCCCC	C	GTCTTCTCAGCCTTC	272234	9	
		222323	AAAGCCCC	no insert	CGTCTTCTCAGCCTTC	272233	9	
		222327	AAAGCCCAAGT	no insert	GTCTTCTCAGCCTTC	272234	9	
		222327	AAAGCCCAAGT	TCCC	GTCTTCTCAGCCTTC	272234	9	
		222328	AAAGCCCAAGTG	CCTCCTAG	GGCAA	271838	9	
		222329	AAAGCCCAAGTGT	CGAGG	CTTCTCAGCCTTC	272238	9	
		222332	AAAGCCCAAGTGTTCA	GGC	GTCTTCTCAGCCTTC	272234	9	
		222332	AAAGCCCAAGTGTTCA	GGG	CTTCTCAGCCTTC	272236	9	
		222331	AAAGCCCAAGTGTC	CCCGAGG	CCTAAACGTTGAGGCCAA	271826	9	
		222327	AAAGCCCAAGT	TCACACC	CAGTCTCTGTGCCAAA	271297	9	
12	ND	ND	ND	ND	ND	ND	ND	EX2-EX10
13	ND	ND	ND	ND	ND	ND	ND	EX2-EX10
14	ND	ND	ND	ND	ND	ND	ND	EX2-EX10

Different breakpoints, position on the gene *ERG*, sequences and inserts identified by analysis of gDNA in 11 patients are listed. Type of aberrant *ERG* transcripts identified by analysis of mRNA in 14 patients are listed. *ERG* gene ID 2078, NG_029732.1; exons numbering according to *ERG* isoform 1 (NM_182918). **ERG* transcripts inferred by the size of PCR products and not confirmed by sequencing; **Breakpoints inferred by the size of PCR products and not confirmed by sequencing.