

Data underlying the research: Ehlers-Danlos syndrome kyphoscoliotic type 2 caused by mutations in the *FKBP14* gene: an analysis of five cases

Picture №1. Gel of PCR fragments from patient №3.

- 1- Molecular-weight size marker;
- 2- exon 1 *FKBP14* gene
- 3- exon 2 *FKBP14* gene
- 4- exon 3 *FKBP14* gene
- 5- exon 4 *FKBP14* gene

Primer sequences, MgCl₂ concentrations and primer annealing temperatures are presented in Table 1.

Table 1. Primer sequences and PCR conditions for *FKBP14* exons

DNA fragment	Primer sequence	Fragment length, bp	MgCl ₂ concentration, mM	Primer annealing temperature, °C (cycle)
Exon 1	F- GTCGAGGGACCTTTTCGCTGC	163	4	63 (32)
	R-GCTGGCATAAGTGAGTGGATTCC			
Exon 2	F-CACTTACTGGTGGGAAAATGCAC	263	4	63 (32)
	R-CTGTCTCCTAATCCAGAGAACAA			
Exon 3	F-CATATATGACAATCTTAGGAAGGCTC	240	2	65 (32)
	R-GGAGTAGGAAGAAGGAAAGGTC			
Exon 4	F-GCTCAATGTGGGTATCTTATGAATCC	690	1.6	67 (32)
	R-GCCCTCTCTTGAAAGATGAGTGC			

Picture №2. Electropherogram of the exon 3 of the *FKBP14* gene.

A homozygous c.362dupC pathogenic variant in exon 3 of the *FKBP14* gene.

(PCR products were sequenced using the ABI PRISM Big Dye Terminator (v 3.1) Cycle Sequencing Kit (Applied Biosystems, Foster City, CA, USA) on an ABI3130xl Genetic Analyzer (Applied Biosystems, Foster City, CA, USA)).