

Table S1. Genetic variations detected in the full-length *ERMAP* gene of the family

Location	Nucleotide Change*	dbSNP reference no.	Protein residue change†	Franklin classification‡	Zygosity		
					Patient	Sister 1/Sister 2	
Intron 1	c.-121-795T>C	rs6600425	NA	Benign	Homozygous	Homozygous	
Intron 2	c.-6+1397G>A	rs6658001	NA	Benign	NO	Heterozygous	
	c.-6+1564T>G	Novel	NA	VUS	NO	Heterozygous	
	c.-6+1835C>A	rs1471747	NA	Benign	Homozygous	Homozygous	
Intron 3	c.86-85G>T	rs12727498	NA	Benign	NO	Heterozygous	
	c.424C>G	Novel	Gln142Glu	VUS	Homozygous	Heterozygous	
Exon 4§	c.433+993T>C	rs34721801	NA	Benign	Homozygous	Heterozygous	
	c.433+1239A>G	rs11210725	NA	Benign	Homozygous	Homozygous	
	c.433+1281T>C	rs11580112	NA	Benign	NO	Heterozygous	
	c.433+1548A>G	rs10789427	NA	Benign	Homozygous	Homozygous	
	c.433+1763A>G	rs56161641	NA	Benign	Homozygous	Homozygous	
	c.434-1588A>G	rs11210726	NA	Benign	Homozygous	Homozygous	
	c.434-1409G>A	rs58724795	NA	Benign	Homozygous	Heterozygous	
	c.434-1061G>A	rs7548186	NA	Benign	Homozygous	Homozygous	
	c.434-874T>C	rs7540604	NA	Benign	Homozygous	Homozygous	
	c.434-46T>C	rs4660672	NA	Benign	Homozygous	Homozygous	
	Intron 5	c.550+96C>G	rs4660673	NA	Benign	Homozygous	Homozygous
		c.550+197_550+198delCC	rs59816087	NA	Benign	Homozygous	Homozygous
	Intron 7	c.616+719C>T	rs7522285	NA	Benign	NO	Heterozygous
		c.617-398C>A	rs11210728	NA	Benign	NO	Heterozygous
Intron 11	c.712+250G>A	rs1466549	NA	Benign	NO	Heterozygous	
	c.712+542T>C	rs1237396071	NA	VUS	Homozygous	Heterozygous	
	c.713-606A>G	rs11210730	NA	Benign	Homozygous	Homozygous	
Exon 12 (3' UTR)	c.*645G>A	rs1484324	NA	Benign	NO	Heterozygous	
	c.*939G>C	rs10789428	NA	Benign	NO	Heterozygous	

* relative to NCBI Reference Sequence NM_001017922.1

† relative to NCBI Reference Sequence NP_001017922.1

‡ VUS-variant of uncertain significance³⁷

§ The patient and his 2 sisters were homozygous for the reference nucleotide “G” at position c.169 in exon 4 indicative of the SC:1 phenotype.

NA- Not available

NO- Not observed

Table S2. Genetic variations detected in the *RHCE* gene of the family

Location	Nucleotide Change*	dbSNP reference no.	Protein residue change†	Franklin classification	Zyosity	
					Patient	Sister 1/Sister 2
Promoter	c.-378G>A	rs2281179	NA	Benign	Homozygous	Homozygous
	c.-369C>T	rs2072933	NA	Benign	Homozygous	Homozygous
	c.-296G>A	rs2072932	NA	Benign	Homozygous	Homozygous
	c.-122C>A	rs2072931	NA	Benign	Homozygous	Homozygous
Intron 3	c.486+157C>A	rs28631635	NA	Benign	Homozygous	Homozygous
Intron 4	c.635-435C>T	rs607116	NA	Benign	Homozygous	Homozygous
Exon 5	c.676G>C	rs609320	Ala226Pro ("E")	Benign	Homozygous	Homozygous
Intron 5	c.801+101G>A	rs636889	NA	Benign	Homozygous	Homozygous
	c.802-281G>T	rs760938	NA	Benign	Homozygous	Homozygous
Intron 8	c.1154-222_1154-221insAAATA	rs71014358	NA	Benign	Homozygous	Homozygous

* relative to NCBI Reference Sequence NM_020485.4

† relative to NCBI Reference Sequence NP_065231.3

NA- Not available

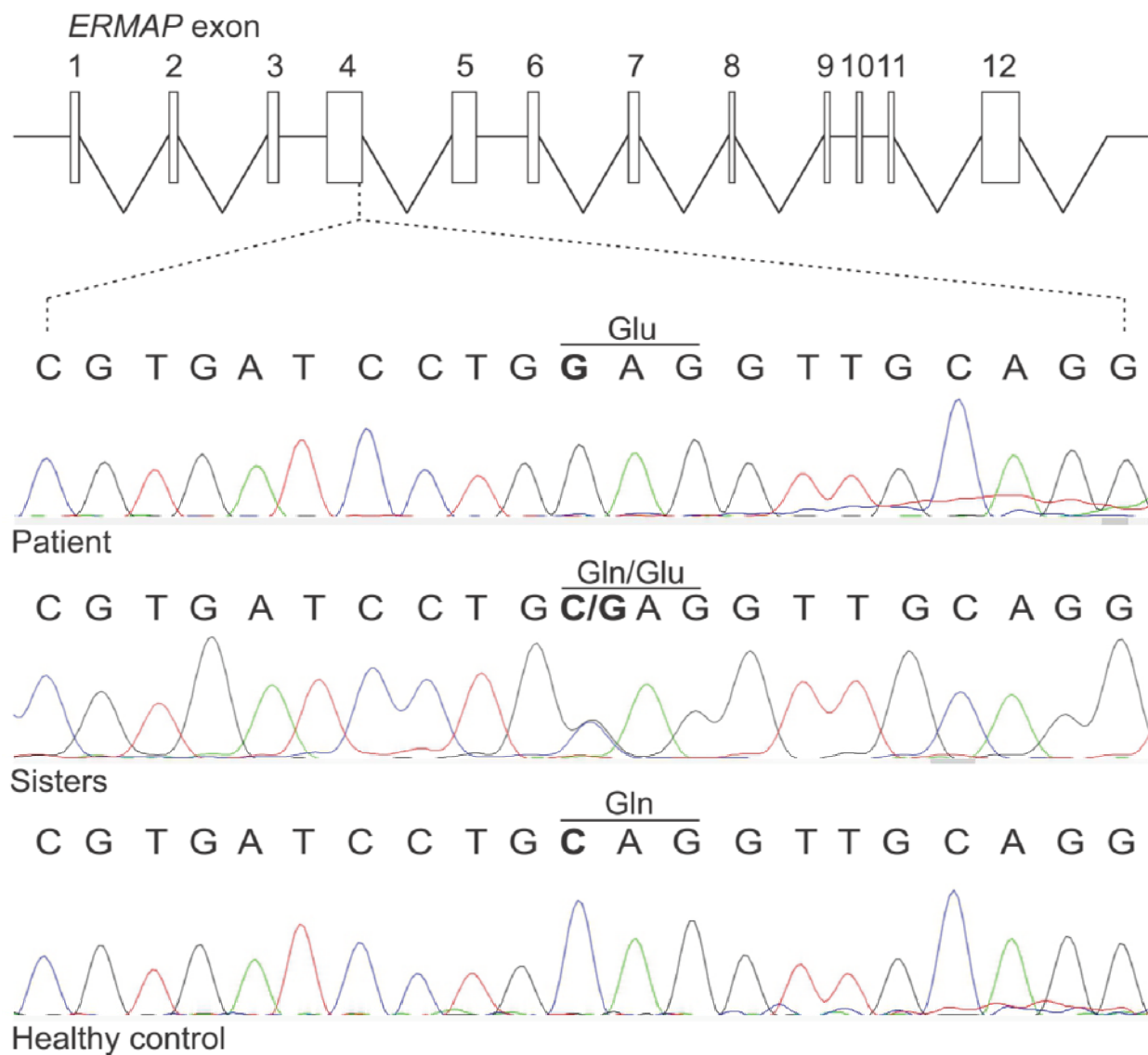


Fig. S1