Table S1. Patients' clinical and molecular data

Patient	Gend	der	Age at onset	Age at biopsy	Disease duration	Main clinical features at biopsy	Degree of clinical severity	Genotype
1 DD	M		20	21	1	Severe hypertrophic cardiomyopathy, severe muscle impairment and atrophy, cardiogenic ascites, cachexia, deceased at age 21	++++	c.796–797insC, p.fsX7
2 DD	М		22	25	3	Severe hypertrophic cardiomyopathy, moderate muscle impairment, deceased at age 25	+++	c.680– 701del22, p.fsX8
3* DD	М		18	28	10	Severe hypertrophic cardiomyopathy, moderate muscle impairment, heart transplant at age 34, alive at age 40	++	c.294G>A, p.W98X
4* DD	F		26	54	28	Severe hypertrophic cardiomyopathy, mild muscle impairment, heart transplant at age 52, alive at age 61	+	c.294G>A, p.W98X
	<u> </u>			T	T		1	
5 GSDII	I	_	40	56	16	Moderate muscle weakness, waddling gait	++	c32-13T>G; c.307T>G, p.C103G
	П	F		65	25	Severe muscle weakness, walks with a cane, dyspnea	+++	
6 GSDII	I			54	20	Moderate muscle weakness, Gowers sign	++	c32-13T>G; c.2219delTG, p.V740fsX55
	П	F	34	60	26	Severe muscle weakness, respiratory insufficiency	+++	
7 GSDII	I	_	41	42	1	Mild muscle weakness, Gowers sign	+	c32-13T>G; c.546+1G>T
	Ш	F		48	7	Moderate muscle weakness, loss of Gowers	++	
8 GSDII	I		Л 18	18	0	Asymptomatic hyperCKemia (>1000 U/L)	+/-	c.546+1G>T, p. L552P; n.d.
	ERT	M		19	1	Asymptomatic hyperCKemia (>700 U/L)	+/-	

I: first biopsy; II: second biopsy; \*: relatives, son and mother; CK: creatine kinase (normal values = 0-200 U/L); n.d.: not determined.