Supplementary table 3. Genotype-phenotype associations for individual non-sarcomere protein genes, when only analysing the sub-cohort of sarcomere-positive individuals. P-values reflect the comparison for proportions or means, between the group of patients with versus the group of patients without a rare variant in a given non-sarcomere protein gene.

Phenotype	Gene	Frequency or mean±standard deviation -	Frequency or mean±standard deviation -	P-value
		Variant present	Variant absent	
LA diameter at last follow-up (mm)	SCN5A	47.4±4.8	44.1±7.8	0.109
LVOTO (>30 mmHg)	SCN5A	50.0% (9/18)	36.0% (122/339)	0.315
	Ion-channel	43.6% (34/78)	34.8% (97/279)	0.184
MLVWT (mm)	ANK2	19.9±6.2	18.9±4.5	0.377
MLVWT ≥30mm	ANK2	16% (4/25)	2.8% (7/251)	0.007
E/e' ratio	CASQ2	17.5±7.7	10.6±5.2	0.004
NSVT	PLN	100% (1/1)	24.7% (61/247)	0.083

LA: left atria; LVOTO: left ventricular outflow tract obstruction; MLVWT: maximal left ventricular wall thickness; E/e'ratio: ratio between the maximal velocity of the E wave from the pulsed wave Doppler of the transmitral flow and the maximal velocity of the e' wave of tissue Doppler at the mitral annulus; NSVT: non-sustained ventricular tachycardia.