

GENE	DISORDER		GENE	DISORDER
			GENE	
A2ML1 ACADVL	Noonan syndrome VLCAD deficiency			Cardiomyopathy, familial hypertrophic; creatine phosphokinase, elevated serum; long QT syndrome 9; myopathy, distal, Tateyama type; rippling muscle disease 2
ACTC1	Atrial septal defect 5; cardiomyopathy, dilated, ACTC1 1R; cardiomyopathy, hypertrophic, 11; left		CAV3	
	ventricular noncompaction 4 Cardiomyopathy, dilated, 1AA, with or without		CBL	Noonan syndrome-like disorder with or without juvenile myelomonocytic leukemia
LVNC; cardiomyopathy, hypertrophic, 23, with or ACTN2 without LVNC; myopathy, congenital with structured cores and Z-line abnormalities; myopathy, distal, 6, adult onset		CPT2	CPT II deficiency, infantile; CPT II deficiency, lethal neonatal; CPT II deficiency, myopathic, stress-induced	
		CSRP3	Cardiomyopathy, hypertrophic, 12	
AGL	Glycogen storage disease Illa; glycogen storage disease Illb KBG syndrome, cardiomyopathy, dilated; cardiomyopathy, hypertrophic		DES	Cardiomyopathy, dilated, 1l; myopathy, myofibrillar, 1; scapuloperoneal syndrome,
ANKRD1			ELAC2	neurogenic, Kaeser type Combined oxidative
BAG3	Cardiomyopathy, dilated, 1HH; myopathy, myofibrillar, 6		ELAC2	phosphorylation deficiency 17 Emery-Dreifuss muscular
BRAF	Adenocarcinoma of lung, somatic; cardiofaciocutaneous syndrome; colorectal cancer, somatic; LEOPARD syndrome 3; melanoma, malignant, somatic; non-small cell lung cancer, somatic; Noonan syndrome 7 Brugada syndrome 3; long	g	FHL1	dystrophy 6, X-linked; myopathy, X-linked, with postural muscle atrophy; reducing body myopathy, X-linked 1a, severe, infantile or early childhood onset; reducing body myopathy, X-linked 1b, with late childhood or adult onset; scapuloperoneal myopathy, X-linked dominant
CACNA1C	QT syndrome 8; Timothy syndrome			A-III IKEU QOTTIII Idi IL



CALR3

Cardiomyopathy,

hypertrophic



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FLNC	Cardiomyopathy, familial hypertrophic, 26; cardiomyopathy, familial restrictive 5; myopathy, distal, 4; myopathy, myofibrillar, 5		KRAS	Arteriovenous malformation of the brain, somatic; bladder cancer, somatic; breast cancer, somatic; cardiofaciocutaneous syndrome 2; gastric cancer, somatic; leukemia, acute myeloid, somatic; lung cancer, somatic; Noonan syndrome 3; oculoectodermal syndrome, somatic; pancreatic carcinoma, somatic; RAS-associated autoimmune leukoproliferative disorder; Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic
GAA	Pompe disease; Glycogen storage disease II			
GATA4	Atrial septal defect 2; atrioventricular septal defect 4; Tetralogy of Fallot; ventricular septal defect 1			
GLA	Fabry disease; Fabry disease, cardiac variant			
Bladder cancer, somatic; congenital myopathy with excess of muscle spindles; Costello syndrome; nevus sebaceous or woolly hair nevus, somatic; Schimmelpenning- Feuerstein-Mims syndrome, somatic mosaic; Spitz nevus or nevus spilus, somatic; thyroid	congenital myopathy with			
	Costello syndrome; nevus		LAMP2	Danon disease
	LDB3	Cardiomyopathy, dilated, 1C, with or without LVNC; cardiomyopathy, hypertrophic, 24; left ventricular noncompaction 3; myopathy, myofibrillar, 4		
JPH2	carcinoma, follicular, somatic Cardiomyopathy, dilated, 2E; cardiomyopathy, hypertrophic, 17		MAP2K1	Cardiofaciocutaneous syndrome 3; melorheostosis, isolated, somatic mosaic
	Tiyper doptile, 17		MAP2K2	Cardiofaciocutaneous syndrome 4
			MTO1	Combined oxidative phosphorylation deficiency 10
				Cardiomyopathy, dilated,



MYBPC3

1MM; cardiomyopathy,

hypertrophic, 4; left ventricular noncompaction 10



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МҮН6	Atrial septal defect 3; cardiomyopathy, dilated, 1EE; cardiomyopathy, hypertrophic, 14 Cardiomyopathy, dilated,	NF1	Leukemia, juvenile myelomonocytic; neurofibromatosis, familial spinal; neurofibromatosis, type 1; neurofibromatosis-Noonan
МҮН7	1S; cardiomyopathy, hypertrophic, 1; Laing distal myopathy; left ventricular noncompaction 5; myopathy, myosin storage, autosomal dominant; myopathy, myosin storage, autosomal recessive; scapuloperoneal syndrome, myopathic type	NRAS	syndrome; Watson syndrome Colorectal cancer, somatic; epidermal nevus, somatic; melanocytic nevus syndrome, congenital, somatic; neurocutaneous melanosis, somatic; Noonan syndrome 6; Schimmelpenning- Feuerstein-Mims syndrome,
MYL2	Cardiomyopathy, hypertrophic, 10; myopathy, myofibrillar, 12, infantile-onset, with cardiomyopathy	PDLIM3	somatic mosaic; thyroid carcinoma, follicular, somatic Cardiomyopathy, dilated; cardiomyopathy, hypertrophic
MYL3	Cardiomyopathy, hypertrophic, 8	PLN	Cardiomyopathy, dilated, 1P; cardiomyopathy, hypertrophic, 18
MYLK2	Cardiomyopathy, hypertrophic, 1, digenic		Cardiomyopathy, hypertrophic 6; glycogen storage disease of heart, lethal congenital; Wolff-Parkinson- White syndrome
MYOM1	Cardiomyopathy, hypertrophic	PRKAG2	
MYOZ2	Cardiomyopathy, hypertrophic, 16		
MYPN	Cardiomyopathy, dilated, 1KK; cardiomyopathy, familial restrictive, 4; cardiomyopathy, hypertrophic, 22; nemaline myopathy 11, autosomal	PTPN11	LEOPARD syndrome 1; leukemia, juvenile myelomonocytic, somatic; metachondromatosis; Noonan syndrome 1
NEVAL	recessive Cardiomyopathy, dilated,	RAF1	Cardiomyopathy, dilated, 1NN; LEOPARD syndrome 2; Noonan syndrome 5
NEXN	1CC; cardiomyopathy, hypertrophic, 20	RASA1	Basal cell carcinoma, somatic; capillary malformation- arteriovenous malformation 1





GENE	DISORDER		
RIT1	Noonan syndrome 8		
RRAS	Noonan syndrome		
SHOC2	Noonan syndrome-like with loose anagen hair 1		
SOS1	Noonan syndrome 4		
SOS2	Noonan syndrome 9		
SPRED1	Legius syndrome		
TCAP	Cardiomyopathy, hypertrophic, 25; muscular dystrophy, limb-girdle, autosomal recessive 7		
TNNC1	Cardiomyopathy, dilated, 1Z; cardiomyopathy, hypertrophic, 13		
TNNI3	Cardiomyopathy, dilated, 1FF; cardiomyopathy, familial restrictive, 1; cardiomyopathy, hypertrophic, 7		
TNNT2	Cardiomyopathy, dilated, 1D; cardiomyopathy, familial restrictive, 3; cardiomyopathy, hypertrophic, 2; left ventricular noncompaction 6		
TPM1	Cardiomyopathy, dilated, 1Y; cardiomyopathy, hypertrophic, 3; left ventricular noncompaction 9		
TTR	Amyloidosis, hereditary, transthyretin-related; carpal tunnel syndrome, familial		
VCL	Cardiomyopathy, dilated, 1W; cardiomyopathy, hypertrophic, 15		

