

Pan Cardiomyopathy Panel (62 Genes)									
Gene	Inher.	Association							Other diseases or syndromes
		HCM	DCM	ARVC	CPVT	LVNC	RCM	Other	
ABCC9	AD		X					X	Cantu Syndrome
ACTC1	AD	X	X			X	X		
ACTN2	AD	X	X						
ANKRD1	Unkn	X	X						
BAG3	AD	X	X				X	X	Myofibrillar myopathy
CASQ2	AD					X			
	AR				X				
CAV3	AD	X	X					X	Limb-girdle muscular dystrophy
								X	Long QT
CHRM2	AD		X						
CRYAB	Unkn		X						Myofibrillar myopathy
	AD/AR		**					X	
CSRP3	AD	X	X					X	Myopathy reported with HCM
	AD		X	X				X	
DES	AD/AR		**					X	Myofibrillar myopathy
								X	Limb-girdle muscular dystrophy
DMD	XL		**					X	Duchenne/Becker muscular dystrophy Female carriers may develop isolated DCM
DOLK	AR		X						
DSC2	AD		X	X					
DSG2	AD		X	X					
DSP	AD		X	X					
	AR		**	**				X	Carvajal syndrome
DTNA	AD					X			
EMD	XL		**					X	Emery-Dreifuss muscular dystrophy
FHL2	Unkn		X						
GATAD1	AR		X						
GLA	XL	**						X	Fabry disease
ILK	Unkn		X						
JPH2	Unkn	X							
JUP	AD			X					
	AR							X	Naxos disease
LAMA4*	Unkn		X						
LAMP2	XL	**	**					X	Danon disease
LDB3	AD	X	X			X		X	Myofibrillar myopathy
			X			X			
LMNA	AD							X	Limb-girdle muscular dystrophy Charcot-Marie-Tooth disease Malouf Syndrome Partial lipodystrophy
	AD/AR		**					X	Emery-Dreifuss muscular dystrophy
MURC	AD		X						
MYBPC3	AD	X	X			X	X		
MYH6*	AD	X	X			X	X		CHD
MYH7	AD	X	X			X	X		Myopathies
								X	Laing distal myopathy
								X	Myosin storage myopathy
MYL2	AD	X							
MYL3	AD	X					X		
MYLK2	Unkn	X							
MYOM1	AD	X							
MYO22	AD	X							
MYPN	AD	X	X						
NEBL	Unkn		X					X	Endocardial fibroelastosis
NEXN	Unkn	X	X						
PDLIM3	Unkn	X	X						
PKP2	AD		X	X					
PLN	AD	X	X	X					
PRDM16	Unkn		X			X			
PRKAG2	AD	**						X	Glycogen Storage Disease (with WPW)
PTPN11	AD	**						X	Noonan spectrum disorders
RAF1	AD	**						X	Noonan spectrum disorders
RBM20	AD		X						
RYR2	AD	X		X	X				Presentation can overlap with ARVC
SCN5A	AD		X	X				X	Brugada syndrome, Long QT syndrome
SGCD	AD		X						
	AR		**					X	Limb-girdle muscular dystrophy
TAZ	XL		**			**		X	Barth syndrome
TCAP	Unkn	X							
	AR		**					X	Limb-girdle muscular dystrophy
TMEM43	AD			X					
TNNC1	AD	X	X						
TNNI3	AD	X	X				X		
TNNT2	AD	X	X			X	X		
TPM1	AD	X	X				X		
TRDN	AR				X				
	AD	X	X	X					
TTN*	AD/AR							X	HMERF
	AR							X	Tibial muscular dystrophy
								X	Centronuclear myopathy
								X	Limb-girdle muscular dystrophy
TTR	AD	**						X	Amyloidosis
VCL	AD	X	X			X			

*Please note a few exons have been excluded based on technical difficulties in capture.

Inher. = Inheritance Pattern, AD = autosomal dominant, AR = autosomal recessive, XL = X-linked, HCM = hypertrophic cardiomyopathy, DCM = dilated cardiomyopathy, ARVC = arrhythmogenic right ventricular cardiomyopathy, CPVT = catecholaminergic polymorphic ventricular tachycardia, LVNC = left ventricular non-compaction, RCM = restrictive