Approved symbol	Approved name	HGNC ID	Location	Disease panel
ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	HGNC:60	12p12.1	Primary hereditary arrythmia
ACTC1	actin, alpha, cardiac muscle 1	HGNC:143	15q14	Cardiomyopathy
ACTN2	actinin, alpha 2	HGNC:164	1q42-q43	Cardiomyopathy
AKAP9	A kinase (PRKA) anchor protein 9	HGNC:379	7q21-q22	Primary hereditary arrythmia
ANK2	ankyrin 2, neuronal	HGNC:493	4q25-q26	Primary hereditary arrythmia
ANKRD1	ankyrin repeat domain 1 (cardiac muscle)	HGNC:15819	10q23.33	Cardiomyopathy
APOB	apolipoprotein B	HGNC:603	2p24-p23	Familial Hypercholesterolaemia
BAG3	BCL2-associated athanogene 3	HGNC:939	10q25.2-q26.2	Cardiomyopathy
CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit	HGNC:1390	12p13.3	Primary hereditary arrythmia
CACNA2D1	calcium channel, voltage-dependent, alpha 2/delta subunit 1	HGNC:1399	7q21-q22	Primary hereditary arrythmia
CACNB2	calcium channel, voltage-dependent, beta 2 subunit	HGNC:1402	10p12	Primary hereditary arrythmia
CALM1	calmodulin 1 (phosphorylase kinase, delta)	HGNC:1442	14q32.11	Primary hereditary arrythmia
CALM2	calmodulin 2 (phosphorylase kinase, delta)	HGNC:1445	2p21.3-p21.1	Primary hereditary arrythmia
CALM3	calmodulin 3 (phosphorylase kinase, delta)	HGNC:1449	19q13.2-q13.3	Primary hereditary arrythmia
CASQ2	calsequestrin 2 (cardiac muscle)	HGNC:1513	1p13.1	Primary hereditary arrythmia
CAV3	caveolin 3	HGNC:1529	3p25	Primary hereditary arrythmia
CRYAB	crystallin, alpha B	HGNC:2389	11q23.1	Cardiomyopathy
CSRP3	cysteine and glycine-rich protein 3 (cardiac LIM protein)	HGNC:2472	11p15.1	Cardiomyopathy
CTF1	cardiotrophin 1	HGNC:2499	16p11.2	Cardiomyopathy
CTNNA3	catenin (cadherin-associated protein), alpha 3	HGNC:2511	10q21	Cardiomyopathy
DES	desmin	HGNC:2770	2q35	Cardiomyopathy
DMD	dystrophin	HGNC:2928	Xp21.2	Cardiomyopathy
DNAJC19	DnaJ (Hsp40) homolog, subfamily C, member 19	HGNC:30528	3q26.33	Cardiomyopathy
DPP6	dipeptidyl-peptidase 6	HGNC:3010	7q36.2	Primary hereditary arrythmia
DSC2	desmocollin 2	HGNC:3036	18q12.1	Cardiomyopathy
DSG2	desmoglein 2	HGNC:3049	18q12.1	Cardiomyopathy
DSP	desmoplakin	HGNC:3052	6p24.3	Cardiomyopathy

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DTNA	dystrobrevin, alpha	HGNC:3057	18q12	Cardiomyopathy
EMD	emerin	HGNC:3331	Xq27.3-q28	Cardiomyopathy
EYA4	EYA transcriptional coactivator and phosphatase 4	HGNC:3522	6q23	Cardiomyopathy
FHL1	four and a half LIM domains 1	HGNC:3702	Xq26.3	Cardiomyopathy
FHL2	four and a half LIM domains 2	HGNC:3703	2q12.2	Cardiomyopathy
FKTN	fukutin	HGNC:3622	9q31.2	Cardiomyopathy
FXN	frataxin	HGNC:3951	9q21.11	Cardiomyopathy
GATA4	GATA binding protein 4	HGNC:4173	8p23.1-p22	Cardiomyopathy
GJA5	gap junction protein, alpha 5, 40kDa	HGNC:4279	1q21.2	Cardiomyopathy
GLA	galactosidase, alpha	HGNC:4296	Xq21.3-q22	Cardiomyopathy
GPD1L	glycerol-3-phosphate dehydrogenase 1-like	HGNC:28956	3p22.3	Cardiomyopathy
GAA	glucosidase, alpha; acid	HGNC:4065	17q25.2-q25.3	Cardiomyopathy
HCN1	hyperpolarization activated cyclic nucleotide gated potassium channel 1	HGNC:4845	5p12	Primary hereditary arrythmia
HCN4	hyperpolarization activated cyclic nucleotide gated potassium channel 4	HGNC:16882	15q24.1	Primary hereditary arrythmia
JPH2	junctophilin 2	HGNC:14202	20q13.12	Cardiomyopathy
JUP	junction plakoglobin	HGNC:6207	17q21	Cardiomyopathy
KCNA5	potassium channel, voltage gated shaker related subfamily A, member 5	HGNC:6224	12p13	Primary hereditary arrythmia
KCND3	potassium channel, voltage gated Shal related subfamily D, member 3	HGNC:6239	1p13.2	Primary hereditary arrythmia
KCNE1	potassium channel, voltage gated subfamily E regulatory beta subunit 1	HGNC:6240	21q22.1-q22.2	Primary hereditary arrythmia
KCNE5	potassium channel, voltage gated subfamily E regulatory beta subunit 5	HGNC:6241	Xq22.3	Primary hereditary arrythmia
KCNE2	potassium channel, voltage gated subfamily E regulatory beta subunit 2	HGNC:6242	21q22.1	Primary hereditary arrythmia
KCNE3	potassium channel, voltage gated subfamily E regulatory beta subunit 3	HGNC:6243	11q13.4	Primary hereditary arrythmia
KCNE4	potassium channel, voltage gated subfamily E regulatory beta subunit 4	HGNC:6244	2q36.1	Primary hereditary arrythmia
KCNH2	potassium channel, voltage gated eag related subfamily H, member 2	HGNC:6251	7q36.1	Primary hereditary arrythmia
KCNJ2	potassium channel, inwardly rectifying subfamily J, member 2	HGNC:6263	17q24.3	Primary hereditary arrythmia
KCNJ5	potassium channel, inwardly rectifying subfamily J, member 5	HGNC:6266	11q24	Primary hereditary arrythmia
KCNJ8	potassium channel, inwardly rectifying subfamily J, member 8	HGNC:6269	12p12.1	Primary hereditary arrythmia

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KCNQ1	potassium channel, voltage gated KQT-like subfamily Q, member 1	HGNC:6294	11p15.5	Primary hereditary arrythmia
LAMA4	laminin, alpha 4	HGNC:6484	6q21	Cardiomyopathy
LAMP2	lysosomal-associated membrane protein 2	HGNC:6501	Xq24	Cardiomyopathy
LDB3	LIM domain binding 3	HGNC:15710	10q22.3-q23.2	Cardiomyopathy
LDLR	low density lipoprotein receptor	HGNC:6547	19p13.2	Familial Hypercholesterolaemia
LMNA	lamin A/C	HGNC:6636	1q22	Cardiomyopathy
MYBPC3	myosin binding protein C, cardiac	HGNC:7551	11p11.2	Cardiomyopathy
MYH6	myosin, heavy chain 6, cardiac muscle, alpha	HGNC:7576	14q11.2-q13	Cardiomyopathy
MYH7	myosin, heavy chain 7, cardiac muscle, beta	HGNC:7577	14q11.2-q13	Cardiomyopathy
MYL2	myosin, light chain 2, regulatory, cardiac, slow	HGNC:7583	12q24.11	Cardiomyopathy
MYL3	myosin, light chain 3, alkali; ventricular, skeletal, slow	HGNC:7584	3p	Cardiomyopathy
MYLK2	myosin light chain kinase 2	HGNC:16243	20q13.31	Cardiomyopathy
MYOM1	myomesin 1	HGNC:7613	18p11.31	Cardiomyopathy
MYOZ2	myozenin 2	HGNC:1330	4q26-q27	Cardiomyopathy
MYPN	myopalladin	HGNC:23246	10q22.1	Cardiomyopathy
NEBL	nebulette	HGNC:16932	10p12	Cardiomyopathy
NEXN	nexilin (F actin binding protein)	HGNC:29557	1p31.1	Cardiomyopathy
NKX2-5	NK2 homeobox 5	HGNC:2488	5q34	Primary hereditary arrythmia
NPPA	natriuretic peptide A	HGNC:7939	1p36.21	Cardiomyopathy
PCSK9	proprotein convertase subtilisin/kexin type 9	HGNC:20001	1p32.3	Familial Hypercholesterolaemia
PDLIM3	PDZ and LIM domain 3	HGNC:20767	4q35	Cardiomyopathy
PKP2	plakophilin 2	HGNC:9024	12p11	Cardiomyopathy
PLN	phospholamban	HGNC:9080	6q22.1	Cardiomyopathy
PRDM16	PR domain containing 16	HGNC:14000	1p36.23-p33	Cardiomyopathy
PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	HGNC:9386	7q35-q36	Cardiomyopathy
PSEN1	presenilin 1	HGNC:9508	14q24.3	Cardiomyopathy
PSEN2	presenilin 2	HGNC:9509	1q42.13	Cardiomyopathy

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PTPN11	protein tyrosine phosphatase, non-receptor type 11	HGNC:9644	12q24.1	Cardiomyopathy
RAF1	Raf-1 proto-oncogene, serine/threonine kinase	HGNC:9829	3p25	Cardiomyopathy
RANGRF	RAN guanine nucleotide release factor	HGNC:17679	17p13	Primary hereditary arrythmia
RBM20	RNA binding motif protein 20	HGNC:27424	10q25.3	Cardiomyopathy
RYR2	ryanodine receptor 2 (cardiac)	HGNC:10484	1q43	Cardiomyopathy
SCN10A	sodium channel, voltage gated, type X alpha subunit	HGNC:10582	3p22.2	Primary hereditary arrythmia
SCN1B	sodium channel, voltage gated, type I beta subunit	HGNC:10586	19q13.12	Primary hereditary arrythmia
SCN2B	sodium channel, voltage gated, type II beta subunit	HGNC:10589	11q23.3	Primary hereditary arrythmia
SCN3B	sodium channel, voltage gated, type III beta subunit	HGNC:20665	11q24.1	Primary hereditary arrythmia
SCN4B	sodium channel, voltage gated, type IV beta subunit	HGNC:10592	11q23.3	Primary hereditary arrythmia
SCN5A	sodium channel, voltage gated, type V alpha subunit	HGNC:10593	3p21	Primary hereditary arrythmia
SGCD	sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)	HGNC:10807	5q33-q34	Cardiomyopathy
SLC22A5	solute carrier family 22 (organic cation/carnitine transporter), member 5	HGNC:10969	5q23.3	Primary hereditary arrythmia
SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1	HGNC:11068	2p22.1	Primary hereditary arrythmia
SNTA1	syntrophin, alpha 1	HGNC:11167	20q11.2	Primary hereditary arrythmia
TAZ	tafazzin	HGNC:11577	Xq28	Cardiomyopathy
TBX5	T-box 5	HGCN:11604	12q24.1	Primary hereditary arrythmia
TCAP	titin-cap	HGNC:11610	17q12	Cardiomyopathy
TGFB3	transforming growth factor, beta 3	HGNC:11769	14q24	Cardiomyopathy
TMEM43	transmembrane protein 43	HGNC:28472	3p25.1	Cardiomyopathy
TMPO	thymopoietin	HGNC:11875	12q22	Cardiomyopathy
TNNC1	troponin C type 1 (slow)	HGNC:11943	3p21.1	Cardiomyopathy
TNNI3	troponin I type 3 (cardiac)	HGNC:11947	19q13.4	Cardiomyopathy
TNNT2	troponin T type 2 (cardiac)	HGNC:11949	1q32	Cardiomyopathy
TPM1	tropomyosin 1 (alpha)	HGNC:12010	15q22.1	Cardiomyopathy
TRDN	triadin	HGNC:12261	6q22.31	Primary hereditary arrythmia
TRPM4	transient receptor potential cation channel, subfamily M, member 4	HGNC:17993	19q13.3	Primary hereditary arrythmia

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TTN	titin	HGNC:12403	2q31	Cardiomyopathy
TTR	transthyretin	HGNC:12405	18q12.1	Amyloidose
VCL	vinculin	HGNC:12665	10q22.1-q23	Cardiomyopathy