

**SUPPLEMENTAL MATERIAL – ADDITIONAL TABLES**

Table S1. List of distinct rare variants detected by high-throughput sequencing in our cohort. The number of patients with each variant and the reference for the published ones is provided.

Gene	Aminoacid change	Frequency	Publication
<i>ACTC1</i>	NM_005159:c.A361G;p.M121V	1	
<i>ANK2</i>	NM_001148:c.A4373G;p.E1458G	2	
<i>ANK2</i>	NM_001148:c.G7132A;p.E2378K	2	
<i>ANK2</i>	NM_001148:c.C9872G;p.P3291R	1	
<i>ANK2</i>	NM_001148:c.G5032A;p.E1678K	1	
<i>ANK2</i>	NM_020977:c.G5536A;p.E1846K	4	Mohler PJ et al Circulation 2007;115:432-41
<i>ANK2</i>	NM_001148:c.C8354T;p.S2785L	1	
<i>ANK2</i>	NM_001148:c.A7183C;p.T2395P	1	
<i>ANK2</i>	NM_001148:c.A7117G;p.T2373A	1	
<i>ANK2</i>	NM_020977:c.T4646A;p.V1549D	1	
<i>ANK2</i>	NM_001148:c.A6883G;p.T2295A	1	
<i>ANK2</i>	NM_001148:c.C2819G;p.A940G	1	
<i>ANK2</i>	NM_001148:c.G4745A;p.R1582Q	1	
<i>ANK2</i>	NM_001148:c.C5231T;p.A1744V	2	
<i>ANK2</i>	NM_001148:c.C5914A;p.Q1972K	1	
<i>ANK2</i>	NM_001148:c.C5231A;p.A1744D	1	
<i>ANK2</i>	NM_020977:c.C5461T;p.R1821W	1	Mohler PJ et al Proc Natl Acad Sci USA 2004;101:9137-42
<i>ANK2</i>	NM_001127493:exon28:c.2838-4G>A	1	
<i>CASQ2</i>	NM_001232:c.1183_1185del;p.395_395del	4	
<i>CASQ2</i>	NM_001232:c.1132_1134del;p.378_378del	1	
<i>CAV3</i>	NM_001234:c.C216G;p.C72W	2	Cronk LB et al Heart Rhythm 2007;4:161-6
<i>CSRP3</i>	NM_001127656:c.G449A;p.C150Y	2	
<i>CSRP3</i>	NM_001127656:c.T10C;p.W4R	3	Knöll R et al. Cell 2002;111:943–55
<i>CSRP3</i>	NM_00112765:c.415-1G>T	1	
<i>DES</i>	NM_001927:c.G1286A;p.R429Q	1	
<i>DES</i>	NM_001927:c.A616G;p.N206D	1	
<i>DES</i>	NM_001927:exon3:c.640-4C>G	1	
<i>DSC2</i>	NM_004949:c.G857T;p.G299V	1	
<i>DSC2</i>	NM_004949:c.C266T;p.S89L	1	Garcia-Pavia P et al Heart 2011; 97(21):1744-52
<i>DSC2</i>	NM_004949:c.C1787T;p.A596V	1	den Haan AD et al Circ Cardiovasc Genet 2009;2(5):428-35
<i>DSC2</i>	NM_004949:c.T2194G;p.L732V	2	Quarta et al. Circulation 2011;123:2701-9.
<i>DSC2</i>	NM_024422:c.2685_2686insAG;p.A895fs	5	Quarta et al. Circulation 2011;123:2701-9.
<i>DSC2</i>	NM_004949:c.G2287A;p.A763T	1	
<i>DSC2</i>	NM_004949:c.G304A;p.E102K	2	Quarta et al. Circulation 2011;123:2701-9.
<i>DSC2</i>	NM_024422:exon11:c.1264-5C>T	2	
<i>DSG2</i>	NM_001943:c.A2110G;p.I704V	1	

<i>DSG2</i>	NM_001943:c.G1174A:p.V392I	2	Klauke et al. Human Molecular Genetics 2010;19:4595-607.
<i>DSG2</i>	NM_001943:c.C2750T:p.A917V	1	Kapplinger JD et al J Am Coll Cardiol 2011;57:2317-27
<i>DSG2</i>	NM_001943:c.A545G:p.N182S	1	
<i>DSG2</i>	NM_001943:c.T473G:p.V158G	1	Syrris et al. European Heart Journal 2007;28:581-8.
<i>DSG2</i>	NM_001943:c.G166A:p.V56M	3	Syrris et al. European Heart Journal 2007;28:581-8.
<i>DSG2</i>	NM_001943:c.A1376G:p.Y459C	1	
<i>DSG2</i>	NM_001943:c.C121A:p.H41N	1	
<i>DSG2</i>	NM_001943:c.A3109G:p.N1037D	1	
<i>DSP</i>	NM_004415:c.A5363G:p.Q1788R	1	
<i>DSP</i>	NM_004415:c.G1445A:p.C482Y	1	
<i>DSP</i>	NM_004415:c.G5881A:p.V1961I	1	
<i>DSP</i>	NM_004415:c.C2422T:p.R808C	1	
<i>DSP</i>	NM_004415:c.C5178A:p.N1726K	1	Klauke et al. Human Molecular Genetics 2010;19:4595-607.
<i>DSP</i>	NM_004415:c.A3706G:p.R1236G	2	
<i>DSP</i>	NM_004415.2:c.C6482T:p.A2760V	1	
<i>DSP</i>	NM_004415.2:c.T5835G:p.F2544L	1	
<i>DSP</i>	NM_004415.2:c.G1696A:p.A566T	1	Basso et al. European Heart Journal 2006;27:1847-54.
<i>DSP</i>	NM_004415.2:c.G4411A:p.D2070N	4	
<i>DSP</i>	NM_004415.2:c.T8191C:p.Y2731H	1	
<i>DSP</i>	NM_004415:c.G4105A:p.E1369K	1	
<i>DSP</i>	NM_004415:c.A5120G:p.Q1707R	1	
<i>DSP</i>	NM_004415.2:p.K2450N	1	
<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs	16	
<i>DSP</i>	NM_004415:c.G1483A:p.V495M	1	
<i>JUP</i>	NM_002230:c.A1324T:p.I442F	1	
<i>JUP</i>	NM_002230:c.A2069G:p.N690S	1	
<i>JUP</i>	NM_002230:c.C1096G:p.P366A	1	
<i>KCNE1</i>	NM_001127670:c.C106T:p.R36C	1	
<i>KCNE1</i>	NM_001127670:c.C314T:p.S105L	1	
<i>KCNH2</i>	NM_172057:c.G2144A:p.R715Q	1	
<i>KCNH2</i>	NM_001204798:c.G1490T:p.G497V	1	
<i>KCNQ1</i>	NM_000218:c.C458T:p.T153M	1	Kapplinger JD Heart Rhythm 2009 ;6(9):1297-303
<i>KCNQ1</i>	NM_000218:c.G1179T:p.K393N	1	
<i>KCNQ1</i>	NM_000218:c.G1520A:p.R507Q	1	
<i>KCNQ1</i>	NM_000218:c.C1201T:p.R401W	1	
<i>LDB3</i>	NM_001080115:c.G352A:p.V118M	3	
<i>LDB3</i>	NM_001080114:c.G1264C:p.A422P	1	
<i>LDB3</i>	NM_001080114:c.G459C:p.Q153H	1	
<i>LMNA</i>	NM_170708:c.C1840T:p.R614C	1	
<i>MYBPC3</i>	NM_000256:c.C3811T:p.R1271X	1	
<i>MYBPC3</i>	NM_000256:c.3580_3591del:p.1194_1197del	1	
<i>MYBPC3</i>	NM_000256:c.C3771A:p.N1257K	2	

MYBPC3	NM_000256:c.3333_3334insGTG:p.E1111delinsEW	1	
MYBPC3	NM_000256:c.G2497A:p.A833T	1	Morner S et al J Mol Cell Cardiol 2003;35:841-9;
MYBPC3	NM_000256:c.G3763A:p.A1255T	2	Richard P et al Circulation 2003;107:2227-32
MYBPC3	NM_000256:c.2512_2513insG:p.E838fs	1	
MYBPC3	NM_000256:c.C1504T:p.R502W	3	Richard P et al Circulation 2003;107:2227-32
MYBPC3	NM_000256:c.2524_2525insT:p.Y842fs	1	
MYBPC3	NM_000256:c.C1303T:p.Q435X	1	
MYBPC3	NM_000256:c.G3065C:p.R1022P	1	Brito D et al Rev Port Cardiol 2005;24:1137-46
MYBPC3	NM_000256:c.G961A:p.V321M	1	Maron BJ et al Heart Rhythm 2012;9(1):57-63
MYBPC3	NM_000256:c.G977A:p.R326Q	2	Niimura H et al Circulation 2002;105:446-51
MYBPC3	NM_000256:c.G1484A:p.R495Q	3	Niimura H et al N Engl J Med 1998;338:1248-57
MYBPC3	NM_000256:c.T1573C:p.Y525H	1	
MYBPC3	NM_000256:c.3227_3228insT:p.D1076fs	1	Zimmerman RS et al Genet Med 2010;12:268-78
MYBPC3	NM_000256:c.3621delC:p.S1207fs	1	
MYBPC3	NM_000256:c.2373_2374insG:p.Q791fs	3	Niimura H et al. N Engl J Med 1998;338:1248-57
MYBPC3	NM_000256:c.G1471A:p.V491M	1	Millat G et al Clin Chim Acta. 2010;411(23-24):1983-91
MYBPC3	NM_000256:c.G2429A:p.R810H	1	Nanni L et al Bioch Biophys Res Commun 2003;309:391-8
MYBPC3	NM_000256:c.C2827T:p.R943X	1	Van Driest SL et al J Am Coll Cardiol 2004;44:1903-10
MYBPC3	NM_000256:c.C1302A:p.Y434X	1	
MYBPC3	NM_000256:c.2093delC:p.A698fs	1	
MYBPC3	NM_000256:c.C3572T:p.S1191L	1	
MYBPC3	NM_000256:c.C1483G:p.R495G	1	Morita H et al N Engl J Med 2008;358:1899-908.
MYBPC3	NM_000256:c.3402_3404del:p.1134_1135del	1	
MYBPC3	NM_000256:c.C859T:p.H287Y	1	Millat G et al Eur J Med Genet. 2010;53(5):261-7
MYBPC3	NM_000256:c.G772A:p.E258K	2	Niimura H et al. N Engl J Med 1998;338:1248-57
MYBPC3	NM_000256:c.G2459A:p.R820Q	1	Konno T et al J Am Coll Cardiol 2003;41:781-6
MYBPC3	NM_000256:c.C484T:p.Q162X	1	
MYBPC3	NM_000256:exon13:c.1090+1G>A	1	Girolami F et al. J Cardiovasc Med 2006;7:601-7
MYBPC3	NM_000256:c.3596_3605del:p.1199_1202del	1	
MYBPC3	NM_000256:c.2604delT:p.G868fs	1	
MYBPC3	NM_000256:c.G1624C:p.E542Q	1	Charron P et al Circulation 1998 97(22):2230-6.
MYBPC3	NM_000256:c.1019_1026del:p.340_342del	1	
MYBPC3	NM_000256:c.174_184del:p.58_62del	3	Lakdawala NK et al Am J Cardiol 2011 Sep 21
MYBPC3	NM_000256:c.G655C:p.V219L	1	Van Driest SL et al J Am Coll Cardiol 2004;44:1903-10
MYBPC3	NM_000256:c.2605_2606insC:p.P869fs	1	
MYBPC3	NM_000256:exon26:c.2603-2A>G	1	
MYBPC3	NM_000256:exon13:c.1090+1G>T	2	
MYBPC3	NM_000256:exon27:c.2905+1G>A	1	Kimura A et al Nat Genet 1997;16:379-82

MYBPC3	NM_000256:exon17:c.1624+5G>T	1	
MYBPC3	NM_000256:exon30:c.3330+5G>C	1	Watkins H et al Nat Genet 1995 ;11(4):434-7.
MYBPC3	NM_000256:exon17:c.1624+4A>T	1	Ingles J et al J Med Genet 2005;42 (10) :e59.
MYH6	NM_002471:c.G622A:p.D208N	1	
MYH6	NM_002471:c.C5410A:p.Q1804K	1	
MYH6	NM_002471:c.C245T:p.P82L	1	
MYH6	NM_002471:c.C70A:p.L24I	2	
MYH6	NM_002471:c.G5477A:p.G1826D	1	
MYH6	NM_002471:c.G5476A:p.G1826S	1	
MYH6	NM_002471:c.C5644A:p.R1882S	1	
MYH6	NM_002471:c.C3932T:p.T1311I	1	
MYH6	NM_002471:c.C3427T:p.R1143W	1	
MYH6	NM_002471:c.G3164A:p.R1055Q	1	
MYH6	NM_002471:c.C4704A:p.N1568K	1	
MYH6	NM_002471:c.G5594A:p.R1865Q	1	Granados-Riveron JT et al Hum Mol Genet 2010 Jul 23
MYH6	NM_002471:c.A1763C:p.D588A	1	
MYH6	NM_002471:c.C5140T:p.R1714W	1	
MYH6	NM_002471:c.C2425T:p.R809C	1	
MYH6	NM_002471:c.G2071A:p.V691I	1	
MYH6	NM_002471:c.C1327T:p.R443C	1	
MYH6	NM_002471:exon35:c.5163+1G>T	1	
MYH6	NM_002471:exon23:c.2928+5G>A	3	
MYH7	NM_000257:c.G767A:p.G256E	1	Fananapazir L et al Proc Natl Acad Sci U S A 1993;90:3993-7
MYH7	NM_000257:c.A2717G:p.D906G	2	Alpert NR et al Am J Physiol Heart Circ Physiol 2005;288:H1097-102
MYH7	NM_000257:c.C2167T:p.R723C	1	Watkins H et al N Engl J Med 1992;326:1108-14
MYH7	NM_000257:c.G746A:p.R249Q	1	Woo A et al Heart 2003;89:1179-85
MYH7	NM_000257:c.G1063A:p.A355T	2	Richard P et al Circulation 2003;107:2227-32
MYH7	NM_000257:c.G2389A:p.A797T	1	Erdmann J et al Clin Genet 2003;64:339-49
MYH7	NM_000257:c.A2681G:p.E894G	1	Van Driest SL et al J Am Coll Cardiol 2004;44:602-10
MYH7	NM_000257:c.G1988A:p.R663H	3	Gruver EJ et al Am J Cardiol 1999;83:13H-8H
MYH7	NM_000257:c.T1433A:p.I478N	1	
MYH7	NM_000257:c.G1144T:p.D382Y	1	Kaski JP et al Circ Cardiovasc Genet 2009;2:436-41
MYH7	NM_000257:c.T2945C:p.M982T	1	Morita H et al Circulation 2006;113:2697-705
MYH7	NM_000257:c.A1051G:p.K351E	1	Mohiddin SA et al. Genet Test 2003 ;7(1):21-7
MYH7	NM_000257:c.A2669C:p.Q890P	1	
MYH7	NM_000257:c.G2156A:p.R719Q	1	Consevage MW et al Hum Mol Genet 1994;3:1025-6
MYH7	NM_000257:c.G5342A:p.R1781H	1	Laredo R. Rev Esp Cardiol 2006;59(10):1008-18
MYH7	NM_000257:c.G50A:p.R17H	1	
MYH7	NM_000257:c.C1279A:p.L427M	2	
MYH7	NM_000257:c.G298A:p.A100T	1	
MYH7	NM_000257:c.G3622A:p.D1208N	1	
MYH7	NM_000257:c.A2464T:p.M822L	1	Mohiddin SA et al Genet Test 2003;7(1):21-7
MYH7	NM_000257:c.A2783G:p.D928G	1	

MYH7	NM_000257:c.C1207T;p.R403W	2	Charron P et al Eur Heart J 1998;19:139-145
MYH7	NM_000257:c.G2221C;p.G741R	1	Van Driest SL et al J Am Coll Cardiol 2004 ;44(3):602-10.
MYH7	NM_000257:c.T1870A;p.Y624N	1	Ohsuzu F et al Int J Cardiol 1997;62:203-209
MYH7	NM_000257:c.G2609A;p.R870H	1	Nishi H et al Circulation 1993; 88(4):343
MYH7	NM_000257:c.G1816A;p.V606M	1	Olivotto I et al Mayo Clin Proc 2008;83(6):630-8
MYH7	NM_000257:c.G2348A;p.R783H	1	Waldmuller S et al Clin Chem 2008;54(4):682-7.
MYH7	NM_000257:c.A2846T;p.E949V	1	
MYH7	NM_000257:c.2537_2539del;p.846_847del	1	
MYH7	NM_000257:c.G4066A;p.E1356K	1	Van Driest SL et al J Am Coll Cardiol 2004 ;44(3):602-10.
MYH7	NM_000257:c.A2792G;p.E931G	1	
MYL2	NM_000432:c.G64A;p.E22K	1	Poetter K et al Nat Genet 1996 ;13(1):63-9
MYL2	NM_000432:c.A401C;p.E134A	1	Olivotto I et al. Mayo Clin Proc 2008;83(6):630-8
MYL2	NM_000432:c.G37A;p.A13T	1	Poetter K et al Nat Genet 1996;13:63-9.
MYL3	NM_000258:c.C476T;p.T159M	1	
MYL3	NM_000258:c.C460T;p.R154C	1	
PDLIM3	NM_001114107:c.A883G;p.T295A	1	
PDLIM3	NM_014476:c.G547T;p.V183L	1	
PKP2	NM_001005242:c.C485T;p.T162M	1	
PKP2	NM_001005242:c.T1809G;p.C603W	2	
PKP2	NM_001005242:c.A1372G;p.I458V	2	
PKP2	NM_001005242:c.G302A;p.R101H	1	Fressart et al Europace 2010;12:861-8.
PKP2	NM_001005242:c.G174T;p.E58D	1	Fressart et al Europace 2010;12:861-8.
PKP2	NM_001005242:c.G775T;p.E259X	1	Quarta G et al Circulation 2011 Jun 14;123(23):2701-9.
PKP4	NM_001005476:c.C2120T;p.A707V	1	
PKP4	NM_001005476:c.A1879G;p.I627V	1	
PKP4	NM_001005476:c.C3233G;p.S1078C	2	
PKP4	NM_001005476:c.C956T;p.T319M	1	
PKP4	NM_001005476:c.A329G;p.Q110R	1	
PKP4	NM_001005476:c.A2168G;p.Y723C	1	
PKP4	NM_001005476:c.C2969T;p.T990I	1	
PKP4	NM_001005476:c.G3311A;p.R1104Q	1	
PLN	NM_002667:c.G26A;p.R9H	1	
PLN	NM_002667:c.T152C;p.L51P	1	
PLN	NM_002667:c.T53C;p.I18T	1	
PLN	NM_002667:c.C73T;p.R25C	1	
PNN	NM_002687:c.C914T;p.A305V	1	
PNN	NM_002687:c.A1646C;p.H549P	1	
RBM20	NM_001134363:c.G850A;p.G284R	3	
RBM20	NM_001134363:c.C3266G;p.P1089R	1	
RBM20	NM_001134363:c.G3373A;p.E1125K	5	
RBM20	NM_001134363:c.C2213T;p.P738L	1	
RBM20	NM_001134363:c.C2239T;p.H747Y	1	
RBM20	NM_001134363:c.C1364T;p.S455L	4	Refaat MM et al Heart Rhythm.2012 Mar;9(3):390-6.
RBM20	NM_001134363:c.G1633A;p.V545I	1	

<i>RBM20</i>	NM_001134363:c.G3023A:p.R1008Q	1	
<i>RBM20</i>	NM_001134363:c.G1766A:p.R589Q	1	
<i>RYR2</i>	NM_001035:c.G8274T:p.K2758N	1	
<i>RYR2</i>	NM_001035:c.G3038A:p.R1013Q	1	Medeiros-Domingo A et al J Am Coll Cardiol 2009;54:2065-74
<i>RYR2</i>	NM_001035:c.G5102C:p.G1701A	1	
<i>RYR2</i>	NM_001035:c.G9455T:p.R3152L	1	
<i>RYR2</i>	NM_001035:c.C2080T:p.R694X	1	
<i>RYR2</i>	NM_001035:exon39:c.5917-1G>C	1	
<i>RYR2</i>	NM_001035:c.C10681G:p.L3561V	1	
<i>RYR2</i>	NM_001035:c.C3037T:p.R1013W	1	
<i>RYR2</i>	NM_001035:c.C3151T:p.R1051C	1	
<i>RYR2</i>	NM_001035:c.G6450A:p.M2150I	1	
<i>RYR2</i>	NM_001035:exon20:c.2203+5G>A	1	
<i>RYR2</i>	NM_001035:exon72:c.10324-4A>G	2	
<i>SCN5A</i>	NM_198056.2:c.C3749T:p.T1304M	2	Wattanasirichaigoon D et al Am J Med Genet 1999;86:470-6
<i>SCN5A</i>	NM_000335:c.G496A:p.A166T	1	
<i>SCN5A</i>	NM_000335:c.A619G:p.T207A	1	
<i>SCN5A</i>	NM_001099405:c.G5306A:p.S1769N	1	
<i>SCN5A</i>	NM_000335:c.G1982A:p.R661Q	1	
<i>SCN5A</i>	NM_001099405:c.G5401A:p.D1819N	1	Millat G et al Clin Genet 2006;70(3):214-27
<i>SCN5A</i>	NM_000335:c.G1655C:p.G552A	1	
<i>SCN5A</i>	NM_001099405:c.T5956C:p.F2004L	1	
<i>SCN5A</i>	NM_001160161:exon25:c.4275+4C>T	1	
<i>TCAP</i>	NM_003673:c.G4A:p.A2T	1	
<i>TCAP</i>	NM_003673:c.37_39del:p.13_13del	1	Bos J et al Mol Genet Metab 2006;88:78-85
<i>TMEM43</i>	NM_024334:c.G91A:p.E31K	1	
<i>TMEM43</i>	NM_024334:exon3:c.163-3C>-	1	
<i>TNNI3</i>	NM_000363:c.G526A:p.V176M	2	
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<i>TNNI3</i>	NM_000363:c.G586A:p.D196N	1	Richard P et al Circulation 2003;107:2227-32
<i>TNNI3</i>	NM_000363:c.C592G:p.L198V	1	Maron BJ et al Heart Rhythm 2012;9(1):57-6
<i>TNNI3</i>	NM_000363:c.G511A:p.A171T	1	Mogensen J et al J Clin Invest, 2003;111:209-216
<i>TNNT2</i>	NM_001001430:c.G842A:p.W287X	1	Richard P et al Circulation 2003;107:2227-32
<i>TNNT2</i>	NM_001001430:c.C814T:p.R278C	2	Watkins H et al N Engl J Med 1995;332:1058-64
<i>TNNT2</i>	NM_001001430:c.C296T:p.A104V	3	Yamauchi-Tahikara K et al Heart 1996;76:63-5
<i>TNNT2</i>	NM_001001430:c.A562G:p.T194A	1	
<i>TNNT2</i>	NM_001001430:c.G266A:p.R94H	1	Millat G et al Clin Chem Acta 2010;411:1983-91
<i>TNNT2</i>	NM_001001430:c.C259T:p.R92W	2	Moolman JC et al J Am Coll Cardiol 1997;29:549-55
<i>TNNT2</i>	NM_001001430:c.463_465del:p.E160del	1	Watkins H et al N Engl J Med 1995;332:1058-64
<i>TNNT2</i>	NM_001001430:c.T221A:p.I79N	1	Watkins H et al N Engl J Med 1995;332:1058-64
<i>TNNT2</i>	NM_001001432:c.A794T:p.N271I	1	Gimeno JR et al Rev Esp Cardiol. 2009;62(12):1473-7.
<i>TNNT2</i>	NM_001001432:exon15:c.804-3C>A	1	
<i>TPM1</i>	NM_001018005:c.G466A:p.E192K	1	Lakdawala NK et al Am J Cardiol 2011 Sep 21

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VCL	NM_003373:c.A1907G;p.H636R	1	
VCL	NM_003373:c.T1973C;p.V658A	1	
VCL	NM_003373:c.A1157G;p.K386R	1	
VCL	NM_003373:c.A1555C;p.I519L	1	

Table S2. Rare nsSNPs frequency comparison between our sequencing results and a set of 1,287 UK controls with exome sequence data generated by the UK10K project ([www.uk10k.org](http://www.uk10k.org)) for 19 HCM/DCM associated genes. To avoid technical artifacts associated with indel calling, and to properly match cases and controls, we restricted this analysis to nsSNPs and the 180 HCM UK Caucasian HCM cases. The columns show: the proportion of the 1,287 UK controls with exome sequence data generated by the UK10K project ([www.uk10k.org](http://www.uk10k.org)) and 180 HCM cases that carry rare nsSNPs (rare defined by frequency less than 0.5% in the 1000 Genomes dataset), a Fisher exact test P-value to quantify the case-control difference, the 95% confidence interval for the estimated proportion of HCM cases explained by rare nsSNPs variants in each gene (Supplemental statistical methods), and (in the rightmost column) the estimated probability that a rare nsSNP found in a HCM case in each gene is disease causing (Supplemental statistical methods).

nsSNP: nonsynonymous single nucleotide polymorphism; CI: confidence interval.

Gene	Rare nsSNPs – Frequency in controls	Rare nsSNPs – Frequency in patients	P-value	95% CI for the proportion of cases explained	Probability that a nsSNP is causal
<i>MYH7</i>	0.025	0.172	3.86E-13	[0.0964-0.207]	0.856
<i>TNNT2</i>	0.003	0.044	8.41E-05	[0.0136-0.0708]	0.930
<i>TNNI3</i>	0.000	0.017	0.002	[0.00333-0.0415]	1.000
<i>MYBPC3</i>	0.045	0.106	0.007	[0.014-0.104]	0.570
<i>PLN</i>	0.001	0.022	0.001	[0.006-0.0498]	0.965
<i>MYL2</i>	0.007	0.022	0.065	[0-0.044]	NA
<i>MYL3</i>	0.004	0.011	0.208	[0-0.0301]	NA
<i>ACTC1</i>	0.001	0.006	0.230	[0-0.0167]	NA
<i>TPM1</i>	0.000	0.006	0.123	[0-0.0167]	NA
<i>CSRP3</i>	0.012	0.028	0.168	[0-0.0467]	NA
<i>MYH6</i>	0.053	0.056	0.608	[0-0.0501]	NA
<i>DES</i>	0.005	0.011	0.256	[0-0.0294]	NA
<i>TNNC1</i>	0.000	0.000	1.000	[0-0]	NA
<i>LDB3</i>	0.012	0.011	1.000	[0-0.0228]	NA
<i>TCAP</i>	0.004	0.000	1.000	[0-0]	NA
<i>LMNA</i>	0.005	0.000	1.000	[0-0]	NA
<i>RBM20</i>	0.061	0.056	0.871	[0-0.0361]	NA
<i>PDLIM3</i>	0.011	0.000	0.241	[0-0]	NA
<i>VCL</i>	0.038	0.028	0.677	[0-0.0244]	NA

Table S3. Rare nsSNPs frequency comparison between our sequencing results and a set of 1,287 UK controls with exome sequence data generated by the UK10K project ([www.uk10k.org](http://www.uk10k.org)) for genes associated with arrhythmogenic right ventricular cardiomyopathy and ion channel disease. To avoid technical artifacts associated with indel calling, and to properly match cases and controls, we restricted this analysis to nsSNPs and the 180 HCM UK Caucasian HCM cases. The columns show: the proportion of the 1,287 UK controls with exome sequence data generated by the UK10K project ([www.uk10k.org](http://www.uk10k.org)) and 180 HCM cases that carry rare nsSNPs (rare defined by frequency less than 0.5% in the 1000 Genomes dataset), a Fisher exact test P-value to quantify the case-control difference, the 95% confidence interval for the estimated proportion of HCM cases explained by rare nsSNPs variants in each gene (Supplemental statistical methods), and (in the rightmost column) the estimated probability that a rare nsSNP found in a HCM case in each gene is disease causing (Supplemental statistical methods).

nsSNP: nonsynonymous single nucleotide polymorphism; CI: confidence interval.

Gene	Rare nsSNPs - Frequency in controls	Rare nsSNPs - Frequency in patients	P-value	95% CI for the proportion of cases explained	Probability that a nsSNP is causal
<i>DSP</i>	0.040	0.061	0.240	[0-0.0629]	NA
<i>ANK2</i>	0.039	0.044	0.690	[0-0.0427]	NA
<i>DSG2</i>	0.040	0.044	0.842	[0-0.0418]	NA
<i>KCNE1</i>	0.004	0.006	0.544	[0-0.0167]	NA
<i>KCNQ1</i>	0.012	0.011	1.000	[0-0.0228]	NA
<i>CAV3</i>	0.001	0.000	1.000	[0-0]	NA
<i>TGFB3</i>	0.002	0.000	1.000	[0-0]	NA
<i>KCNJ2</i>	0.003	0.000	1.000	[0-0]	NA
<i>JUP</i>	0.014	0.011	1.000	[0-0.0209]	NA
<i>SCN5A</i>	0.043	0.039	1.000	[0-0.0319]	NA
<i>CASQ2</i>	0.006	0.000	0.607	[0-0]	NA
<i>DSC2</i>	0.034	0.028	0.828	[0-0.0267]	NA
<i>TMEM43</i>	0.013	0.006	0.716	[0-0.0149]	NA
<i>KCNH2</i>	0.014	0.006	0.500	[0-0.0147]	NA
<i>KCNE2</i>	0.019	0.000	0.064	[0-0]	NA
<i>PKP2</i>	0.049	0.028	0.264	[0-0.02]	NA
<i>RYR2</i>	0.068	0.028	0.037	[0-0.0161]	NA

Table S4. Combinations of variants in patients with complex genotypes.

Patient	Gene	Variant
H2	<i>MYH7</i>	NM_000257:c.G767A:p.G256E
	<i>TTN</i>	NM_003319:c.C59039T:p.A19680V
	<i>TTN</i>	NM_003319:c.C61509A:p.H20503Q
H4	<i>MYH6</i>	NM_002471:c.G622A:p.D208N
	<i>PLN</i>	NM_002667:c.G26A:p.R9H
	<i>TTN</i>	NM_003319:c.C53597T:p.T17866I
H5	<i>ANK2</i>	NM_001148:c.G7132A:p.E2378K
	<i>DSP</i>	NM_004415:c.A5363G:p.Q1788R
	<i>LMNA</i>	NM_170708:c.C1840T:p.R614C
H9	<i>TCAP</i>	NM_003673:c.G4A:p.A2T
	<i>TTN</i>	NM_003319:c.C60217A:p.P20073T
	<i>TTN</i>	NM_133378:c.G17911A:p.A5971T
H10	<i>TTN</i>	NM_133437:exon9:c.1398+4C>T
	<i>MYH7</i>	NM_000257:c.C2167T:p.R723C
	<i>TTN</i>	NM_003319:c.T20954G:p.V6985G
H11	<i>ANK2</i>	NM_001148:c.A4373G:p.E1458G
	<i>MYBPC3</i>	NM_000256:c.3596_3605del:p.1199_1202del
	<i>TTN</i>	NM_133378:exon120:c.28031-1G>A
H12	<i>ANK2</i>	NM_001148:c.C9872G:p.P3291R
	<i>MYH7</i>	NM_000257:c.G746A:p.R249Q
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
	<i>TTN</i>	NM_133378:c.A11831C:p.Q3944P
	<i>TTN</i>	NM_133378:c.A21241G:p.K7081E
H13	<i>DSG2</i>	NM_001943:c.A2110G:p.I704V
	<i>MYH7</i>	NM_000257:c.G1063A:p.A355T
H14	<i>MYBPC3</i>	NA(NM_000256:exon17:c.1624+4A>T)
	<i>RBM20</i>	NM_001134363:c.G850A:p.G284R
	<i>TMEM43</i>	NM_024334:c.G91A:p.E31K
	<i>TTN</i>	NM_003319:c.C76097T:p.T25366M
H15	<i>ANK2</i>	NM_001148:c.A6883G:p.T2295A
	<i>MYL2</i>	NM_000432:c.A401C:p.E134A
H16	<i>DES</i>	NM_001927:c.G1286A:p.R429Q
	<i>LDB3</i>	NM_001080115:c.G352A:p.V118M
	<i>MYH7</i>	NM_000257:c.G2389A:p.A797T
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
	<i>TTN</i>	NM_133378:c.G17632A:p.A5878T
H19	<i>MYBPC3</i>	NM_000256:c.C3811T:p.R1271X
	<i>PKP4</i>	NM_001005476:c.C2120T:p.A707V
	<i>SCN5A</i>	NM_198056.2:c.C3749T:p.T1304M
	<i>TTN</i>	NM_003319:c.G55868A:p.R18623H
H20	<i>TNNT2</i>	NM_001001432:c.G842A:p.W287X
	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.G20528A:p.R6843H
	<i>TTN</i>	NM_003319:c.G62191A:p.V20731M
	<i>TTN</i>	NM_003319:c.T68075C:p.I22692T
	<i>TTN</i>	NM_133379:c.A13936G:p.K4646E
H21	<i>PKP2</i>	NM_001005242:c.C485T:p.T162M
	<i>TTN</i>	NM_003319:c.A755G:p.K252R
H24	<i>DSP</i>	NM_001008844:c.G1445A:p.C482Y

	<i>TTN</i>	NM_003319:c.A30247G:p.M10083V
H25	<i>DSC2</i>	NM_004949:c.T2194G:p.L732V
	<i>DSG2</i>	NM_001943:c.G1174A:p.V392I
	<i>MYBPC3</i>	NM_000256:exon13:c.1090+1G>T
	<i>TNNT2</i>	NM_001001432:c.C814T:p.R278C
	<i>VCL</i>	NM_003373:c.G1237A:p.A413T
H26	<i>TPM1</i>	NM_000366:exon4:c.375-3C>T
	<i>MYH6</i>	NM_002471:c.C5410A:p.Q1804K
	<i>TTN</i>	NM_003319:c.C19652T:p.T6551M
	<i>TTN</i>	NM_003319:c.C78211T:p.R26071W
	<i>TTN</i>	NM_003319:c.T69794C:p.I23265T
	<i>TTN</i>	NM_133378:c.A31491T:p.E10497D
H27	<i>MYH7</i>	NM_000257:c.A2681G:p.E894G
	<i>TTN</i>	NM_003319:c.G18213T:p.K6071N
H28	<i>SCN5A</i>	NM_000335:c.G496A:p.A166T
	<i>TTN</i>	NM_003319:c.C41935T:p.P13979S
	<i>TTN</i>	NM_003319:c.G22882A:p.V7628I
H29	<i>MYBPC3</i>	NM_000256:c.3580_3591del:p.1194_1197del
	<i>MYBPC3</i>	NM_000256:c.C3771A:p.N1257K
	<i>MYL2</i>	NM_000432:c.G37A:p.A13T
	<i>PKP2</i>	NM_001005242:c.T1809G:p.C603W
	<i>TTN</i>	NM_003319:c.G26749A:p.E8917K
H30	<i>MYH7</i>	NM_000257:c.G1988A:p.R663H
	<i>TNNT2</i>	NM_001001432:c.C296T:p.A104V
	<i>TTN</i>	NM_133378:c.A11831C:p.Q3944P
	<i>TTN</i>	NM_133378:c.A21241G:p.K7081E
	<i>TTN</i>	NM_133378:c.C29126T:p.A9709V
H32	<i>DES</i>	NM_001927:exon3:c.640-4C>G
	<i>DSP</i>	NM_001008844:c.G4084A:p.V1362I
	<i>MYBPC3</i>	NM_000256:c.3333_3334insGTG:p.E1111delinsEW
	<i>VCL</i>	NM_003373:c.A1166G:p.D389G
H35	<i>CSRP3</i>	NM_001127656:c.G449A:p.C150Y
	<i>TTN</i>	NM_003319:c.G38395C:p.D12799H
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
H37	<i>MYBPC3</i>	NM_000256:c.G2497A:p.A833T
	<i>MYH7</i>	NM_000257:c.T1433A:p.I478N
	<i>TTN</i>	NM_003319:c.C65429G:p.A21810G
H38	<i>MYH7</i>	NM_000257:c.G1988A:p.R663H
	<i>TNNT2</i>	NM_001001432:c.C296T:p.A104V
	<i>TTN</i>	NM_133378:c.A11831C:p.Q3944P
	<i>TTN</i>	NM_133378:c.A21241G:p.K7081E
	<i>TTN</i>	NM_133378:c.C29126T:p.A9709V
H41	<i>DSC2</i>	NM_024422:c.2685_2686insAG:p.A895fs
	<i>TTN</i>	NM_003319:c.T64415A:p.I21472N
H45	<i>DSC2</i>	NM_004949:c.T2194G:p.L732V
	<i>DSG2</i>	NM_001943:c.G1174A:p.V392I
	<i>TNNI3</i>	NM_000363:c.G526A:p.V176M
H47	<i>MYBPC3</i>	NM_000256:exon13:c.1090+1G>A
	<i>TTN</i>	NM_003319:c.A30554C:p.Q10185P
	<i>TTN</i>	NM_003319:c.C71099G:p.A23700G
	<i>TTN</i>	NM_003319:c.G34727A:p.R11576Q
	<i>TTN</i>	NM_133379:c.G16160A:p.C5387Y

	VCL	NM_003373:c.A1907G:p.H636R
H48	LDB3	NM_001080115:c.G352A:p.V118M
	MYBPC3	NM_000256:c.C3771A:p.N1257K
	MYL2	NM_000432:c.G37A:p.A13T
	PKP2	NM_001005242:c.T1809G:p.C603W
H51	DSP	NM_001008844:c.1_2insA:p.M1fs
	MYBPC3	NM_000256:c.2512_2513insG:p.E838fs
H52	MYBPC3	NM_000256:c.C1504T:p.R502W
	TNNT2	NM_001001432:c.C296T:p.A104V
H53	DSG2	NM_001943:c.G166A:p.V56M
	TNNT2	NM_001001432:c.A562G:p.T194A
	TTN	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
	TTN	NM_133378:c.29783_29784insAAT:p.E9928delinsEX
H54	TMEM43	NM_024334:exon3:c.163-3C>-
	MYH6	NM_002471:c.C245T:p.P82L
	MYH6	NM_002471:c.C70A:p.L24I
	PDLIM3	NM_001114107:c.A883G:p.T295A
	RBM20	NM_001134363:c.C3266G:p.P1089R
	TTN	NM_003319:c.A4221T:p.R1407S
	TTN	NM_003319:c.A7620G:p.I2540M
	TTN	NM_003319:c.C4151A:p.A1384E
H55	DSP	NM_001008844:c.1_2insA:p.M1fs
	LDB3	NM_001080115:c.G352A:p.V118M
	TTN	NM_003319:c.A64406T:p.D21469V
	TTN	NM_003319:c.G2962A:p.V988M
	TTN	NM_133378:c.C15300G:p.D5100E
H56	MYBPC3	NM_000256:c.2524_2525insT:p.Y842fs
	TTN	NM_133378:c.A22762G:p.I7588V
	TTN	NM_133378:c.G16609A:p.E5537K
H58	MYH7	NM_000257:c.G1144T:p.D382Y
	RYR2	NM_001035:c.G8274T:p.K2758N
H59	CASQ2	NM_001232:c.1183_1185del:p.395_395del
	MYH7	NM_000257:c.T2945C:p.M982T
	TNNI3	NM_000363:c.G586A:p.D196N
	TTN	NM_003319:c.C44513G:p.A14838G
	TTN	NM_003319:c.G38281A:p.E12761K
	TTN	NM_003319:c.G42626A:p.G14209D
H60	MYBPC3	NM_000256:c.G3065C:p.R1022P
	RBM20	NM_001134363:c.G850A:p.G284R
	TTN	NM_133379:c.T16469C:p.L5490S
H61	TTN	NM_003319:c.A42481G:p.S14161G
	TTN	NM_003319:c.G20528A:p.R6843H
	TTN	NM_003319:c.G41263C:p.A13755P
	TTN	NM_133379:c.A13936G:p.K4646E
H62	RYR2	NM_001035:c.G3038A:p.R1013Q
	TTN	NM_003319:c.G18213T:p.K6071N
	TTN	NM_133378:c.G21088A:p.E7030K
H63	MYBPC3	NM_000256:c.G961A:p.V321M
	MYH7	NM_000257:c.A1051G:p.K351E
	TNNI3	NM_000363:c.G526A:p.V176M
	TTN	NM_003319:c.C19698G:p.D6566E
H64	MYH7	NM_000257:c.2537_2539del:p.846_847del

	<i>TTN</i>	NM_003319:c.A12505G:p.T4169A
H65	<i>ANK2</i>	NM_001148:c.C2819G:p.A940G
	<i>MYBPC3</i>	NM_000256:c.459delC:p.P153fsX5
H66	<i>MYBPC3</i>	NM_000256:c.G977A:p.R326Q
	<i>MYH7</i>	NM_000257:c.A2717G:p.D906G
H68	<i>CASQ2</i>	NM_001232:c.1132_1134del:p.378_378del
	<i>DSP</i>	NM_001008844:c.C2422T:p.R808C
	<i>LDB3</i>	NM_001080114:c.G459C:p.Q153H
	<i>RBM20</i>	NM_001134363:c.G3373A:p.E1125K
	<i>TTN</i>	NM_133378:c.G19937T:p.R6646I
H69	<i>MYH7</i>	NM_000257:c.A2669C:p.Q890P
	<i>TTN</i>	NM_003319:c.T44951C:p.L14984P
H70	<i>PKP4</i>	NM_001005476:c.A1879G:p.I627V
	<i>TNNT2</i>	NM_001001432:c.G266A:p.R94H
	<i>TTN</i>	NM_003319:c.G49167A:p.M16389I
	<i>TTN</i>	NM_003319:c.G55868A:p.R18623H
H71	<i>MYBPC3</i>	NM_000256:c.G1484A:p.R495Q
	<i>TTN</i>	NM_003319:c.C77066T:p.A25689V
	<i>TTN</i>	NM_003319:c.G60895A:p.G20299S
H72	<i>DES</i>	NM_001927:c.A616G:p.N206D
	<i>DSC2</i>	NM_024422:c.2685_2686insAG:p.A895fs
	<i>TTN</i>	NM_003319:c.C3910T:p.R1304C
H74	<i>DSP</i>	NM_004415:c.C5178A:p.N1726K
	<i>PKP2</i>	NM_001005242:c.A1372G:p.I458V
	<i>TTN</i>	NM_003319:c.G3250C:p.V1084L
H75	<i>MYBPC3</i>	NM_000256:exon17:c.1624+4A>T
	<i>TTN</i>	NM_003319:c.A13241C:p.E4414A
	<i>TTN</i>	NM_003319:c.C71099G:p.A23700G
	<i>TTN</i>	NM_003319:c.G34727A:p.R11576Q
	<i>TTN</i>	NM_003319:c.G77051A:p.R25684Q
	<i>TTN</i>	NM_133379:c.G16160A:p.C5387Y
H77	<i>DSG2</i>	NM_001943:c.A1376G:p.Y459C
	<i>KCNQ1</i>	NM_000218:c.G1179T:p.K393N
	<i>PKP4</i>	NM_001005476:c.C3233G:p.S1078C
	<i>TNNT2</i>	NM_001001432:c.C259T:p.R92W
	<i>TTN</i>	NM_003319:c.A75400G:p.I25134V
	<i>TTN</i>	NM_003319:c.C20350A:p.P6784T
	<i>TTN</i>	NM_003319:c.C55365A:p.N18455K
	<i>TTN</i>	NM_003319:c.C68102T:p.S22701F
	<i>TTN</i>	NM_003319:c.G12770A:p.G4257D
	<i>TTN</i>	NM_003319:c.G22724C:p.S7575T
	<i>TTN</i>	NM_003319:c.G37594A:p.V12532M
	<i>TTN</i>	NM_003319:c.G63341A:p.R21114H
	<i>TTN</i>	NM_003319:c.G64570A:p.A21524T
	<i>TTN</i>	NM_003319:c.G74696A:p.R24899H
	<i>TTN</i>	NM_003319:c.T63631G:p.C21211G
	<i>TTN</i>	NM_133378:c.A15092G:p.N5031S
	<i>TTN</i>	NM_133378:c.A16443G:p.I5481M
	<i>TTN</i>	NM_133378:c.A30663C:p.E10221D
	<i>TTN</i>	NM_133378:c.C19806G:p.F6602L
	<i>TTN</i>	NM_133378:c.G21758A:p.R7253H
	<i>TTN</i>	NM_133379:c.G14492A:p.C4831Y

H79	CASQ2	NM_001232:c.1183_1185del:p.395_395del
	TTN	NM_003319:c.C61405T:p.P20469S
	TTN	NM_003319:c.C64111T:p.R21371W
H80	MYBPC3	NM_000256:c.3227_3228insT:p.D1076fs
	TCAP	NM_003673:c.37_39del:p.13_13del
H81	PDLIM3	NM_014476:c.G547T:p.V183L
	PKP4	NM_001005476:c.C956T:p.T319M
	TTN	NM_003319:c.A31229G:p.N10410S
	TTN	NM_003319:c.C60274T:p.L20092F
	TTN	NM_003319:c.G22676A:p.R7559Q
	TTN	NM_003319:c.G31441C:p.E10481Q
	TTN	NM_003319:c.G8176A:p.V2726M
	TTN	NM_133378:c.A17270G:p.K5757R
	TTN	NM_133378:exon99:c.25310-2A>C
H82	MYH7	NM_000257:c.G2156A:p.R719Q
	PNN	NM_002687:c.C914T:p.A305V
	TTN	NM_003319:c.A45736G:p.T15246A
	TTN	NM_003319:c.C26945T:p.A8982V
H83	MYH7	NM_000257:c.G5342A:p.R1781H
	TTN	NM_003319:c.A54649G:p.K18217E
H84	ANK2	NM_001127493:exon28:c.2838-4G>A
	DSG2	NM_001943:c.C121A:p.H41N
	DSP	NM_001008844:c.1_2insA:p.M1fs
	DSP	NM_004415:c.A3706G:p.R1236G
H85	RBM20	NM_001134363:c.G850A:p.G284R
	TTN	NM_003319:c.G13480A:p.V4494I
	TTN	NM_003319:c.G57644T:p.G19215V
	TTN	NM_003319:c.T5227G:p.S1743A
H86	MYBPC3	NM_000256:c.3621delC:p.S1207fs
	TTN	NM_133378:c.G20425A:p.G6809S
H87	MYBPC3	NM_000256:c.2373_2374insG:p.Q791fs
	TTN	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
H88	CAV3	NM_001234:c.C216G:p.C72W
	DSP	NM_001008844:c.1_2insA:p.M1fs
	MYBPC3	NM_000256:c.2373_2374insG:p.Q791fs
	RYR2	NM_001035:c.G5102C:p.G1701A
H89	ANK2	NM_001148:c.G4745A:p.R1582Q
	MYBPC3	NM_000256:c.G1471A:p.V491M
	RBM20	NM_001134363:c.G3373A:p.E1125K
H90	MYBPC3	NM_000256:c.G2429A:p.R810H
	MYH6	NM_002471:c.G5476A:p.G1826S
	MYH6	NM_002471:c.G5477A:p.G1826D
	TTN	NM_003319:c.G19707T:p.R6569S
H91	MYBPC3	NM_000256:c.C2827T:p.R943X
	PKP4	NM_001005476:c.C3233G:p.S1078C
	TTN	NM_003319:c.A42481G:p.S14161G
	TTN	NM_003319:c.G20528A:p.R6843H
	TTN	NM_003319:c.G62191A:p.V20731M
	TTN	NM_003319:c.T68075C:p.I22692T
	TTN	NM_133379:c.A13936G:p.K4646E
H92	ANK2	NM_020977:c.G5536A:p.E1846K
	MYH7	NM_000257:c.C1279A:p.L427M

H93	<i>MYH6</i>	NM_002471:c.C5644A:p.R1882S
	<i>TTN</i>	NM_003319:c.A30247G:p.M10083V
H94	<i>JUP</i>	NM_002230:c.C1096G:p.P366A
	<i>TTN</i>	NM_003319:c.A45736G:p.T15246A
H95	<i>DSP</i>	NM_004415.2:c.C6482T:p.A2760V
	<i>RBM20</i>	NM_001134363:c.C2213T:p.P738L
	<i>RBM20</i>	NM_001134363:c.C2239T:p.H747Y
	<i>TTN</i>	NM_003319:c.G24796C:p.E8266Q
	<i>TTN</i>	NM_003319:c.G26312A:p.R8771H
H96	<i>CASQ2</i>	NM_001232:c.1183_1185del:p.395_395del
	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>MYBPC3</i>	NM_000256:exon27:c.2905+1G>A
	<i>TTN</i>	NM_003319:c.G19256A:p.R6419K
	<i>TTN</i>	NM_133378:c.C28748T:p.A9583V
H97	<i>DSC2</i>	NM_004949:c.G2287A:p.A763T
	<i>MYBPC3</i>	NM_000256:c.C1302A:p.Y434X
	<i>TTN</i>	NM_133379:c.C13028A:p.T4343N
H98	<i>ANK2</i>	NM_001148:c.C5231T:p.A1744V
	<i>MYH6</i>	NM_002471:c.C3932T:p.T1311I
	<i>TTN</i>	NM_003319:c.G19060T:p.A6354S
	<i>TTN</i>	NM_003319:c.G58601A:p.R19534H
H99	<i>MYBPC3</i>	NM_000256:c.C1504T:p.R502W
	<i>TTN</i>	NM_003319:c.G18213T:p.K6071N
	<i>TTN</i>	NM_133378:c.G21088A:p.E7030K
H100	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.G20528A:p.R6843H
H101	<i>ANK2</i>	NM_001148:c.C5914A:p.Q1972K
	<i>ANK2</i>	NM_020977:c.G5536A:p.E1846K
	<i>TTN</i>	NM_003319:c.C60217A:p.P20073T
	<i>TTN</i>	NM_003319:c.C60436T:p.R20146C
H103	<i>MYH7</i>	NM_000257:c.A2792G:p.E931G
	<i>TTN</i>	NM_003319:c.A51793G:p.S17265G
	<i>TTN</i>	NM_003319:c.C78188T:p.A26063V
	<i>VCL</i>	NM_003373:c.T1973C:p.V658A
H104	<i>DSP</i>	NM_004415.2:c.T5835G:p.F2544L
	<i>RYR2</i>	NM_001035:c.G9455T:p.R3152L
H105	<i>MYBPC3</i>	NM_000256:c.2093delC:p.A698fs
H106	<i>CSRP3</i>	NM_001127656:c.T10C:p.W4R
	<i>PLN</i>	NM_002667:c.T152C:p.L51P
	<i>TTN</i>	NM_133378:c.G18902A:p.R6301Q
H107	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.A47700C:p.Q15900H
H108	<i>DSC2</i>	NM_004949:c.G304A:p.E102K
	<i>TTN</i>	NM_003319:c.G77056C:p.A25686P
	<i>TTN</i>	NM_133379:c.C16321T:p.R5441X
H109	<i>TTN</i>	NM_003319:c.C26729G:p.T8910S
	<i>TTN</i>	NM_003319:c.G78524A:p.R26175Q
H110	<i>MYH6</i>	NM_002471:c.C3427T:p.R1143W
	<i>SCN5A</i>	NM_000335:c.A619G:p.T207A
	<i>TTN</i>	NM_133378:c.G27017A:p.R9006H
H111	<i>DSC2</i>	NM_004949:c.G304A:p.E102K
	<i>MYH7</i>	NM_000257:c.G50A:p.R17H

	<i>MYH7</i>	NM_000257:c.A2783G:p.D928G
	<i>PKP2</i>	NM_001005242:c.G302A:p.R101H
H112	<i>MYBPC3</i>	NM_000256:c.C1483G:p.R495G
	<i>MYBPC3</i>	NM_000256:c.C3572T:p.S1191L
	<i>TTN</i>	NM_003319:c.G56086A:p.V18696I
	<i>TTN</i>	NM_133378:c.G25499A:p.R8500H
H113	<i>SCN5A</i>	NM_001160161:exon25:c.4275+4C>T
	<i>SCN5A</i>	NM_001099405:c.G5306A:p.S1769N
H114	<i>RBM20</i>	NM_001134363:c.C1364T:p.S455L
	<i>TTN</i>	NM_003319:c.G25901A:p.R8634H
	<i>TTN</i>	NM_003319:c.G32053A:p.G10685S
H116	<i>CSRP3</i>	NM_001127656:exon6:c.415-1G>T
	<i>RBM20</i>	NM_001134363:c.G3373A:p.E1125K
	<i>RYR2</i>	NM_001035:c.C2080T:p.R694X
	<i>TTN</i>	NM_003319:c.C39131T:p.P13044L
H117	<i>ANK2</i>	NM_001148:c.C5231A:p.A1744D
	<i>KCNH2</i>	NM_001204798:c.1280_1281del:p.427_427del
	<i>RYR2</i>	NM_001035:exon39:c.5917-1G>C
	<i>TTN</i>	NM_003319:c.C54277G:p.P18093A
	<i>TTN</i>	NM_003319:c.G3271C:p.G1091R
H118	<i>ANK2</i>	NM_020977:c.G5536A:p.E1846K
	<i>MYBPC3</i>	NM_000256:c.G1484A:p.R495Q
	<i>RYR2</i>	NM_001035:exon20:c.2203+5G>A
	<i>TTN</i>	NM_003319:c.A77579C:p.E25860A
	<i>TTN</i>	NM_133378:c.C25001T:p.T8334M
H119	<i>MYL3</i>	NM_000258:c.C460T:p.R154C
	<i>TTN</i>	NM_003319:c.G69409T:p.V23137L
H120	<i>DSP</i>	NM_004415.2:c.G4411A:p.D2070N
	<i>KCNE1</i>	NM_001127670:c.C106T:p.R36C
	<i>MYH7</i>	NM_000257:c.C1279A:p.L427M
	<i>SCN5A</i>	NM_000335:c.G1982A:p.R661Q
	<i>TTN</i>	NM_003319:c.G29752A:p.A9918T
H121	<i>MYBPC3</i>	NM_000256:c.3402_3404del:p.1134_1135del
	<i>TTN</i>	NM_003319:c.G3271C:p.G1091R
H122	<i>TTN</i>	NM_003319:c.C61199T:p.S20400F
	<i>TTN</i>	NM_003319:c.T4258C:p.F1420L
H123	<i>KCNH2</i>	NM_001204798:c.G1490T:p.G497V
	<i>MYH7</i>	NM_000257:c.G298A:p.A100T
	<i>RBM20</i>	NM_001134363:c.C1364T:p.S455L
	<i>TPM1</i>	NM_001018005:c.G466A:p.E192K
	<i>TTN</i>	NM_003319:c.C18404G:p.A6135G
H124	<i>PKP2</i>	NM_001005242:c.A1372G:p.I458V
	<i>TTN</i>	NM_003319:c.C62729T:p.A20910V
H126	<i>MYBPC3</i>	NM_000256:c.C859T:p.H287Y
	<i>TNNT2</i>	NM_001001432:c.C259T:p.R92W
H128	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>KCNQ1</i>	NM_000218:c.G1520A:p.R507Q
	<i>MYH6</i>	NM_002471:c.C70A:p.L24I
	<i>PKP2</i>	NM_001005242:c.G174T:p.E58D
	<i>PKP4</i>	NM_001005476:c.G3311A:p.R1104Q
	<i>TMEM43</i>	NA(NM_024334:exon3:c.163-3C>-)
	<i>TTN</i>	NM_003319:c.A7085G:p.Q2362R

	<i>TTN</i>	NM_003319:c.G73852A:p.E24618K
	<i>TTN</i>	NM_003319:c.T54087A:p.H18029Q
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
H131	<i>DSG2</i>	NM_001943:c.A3109G:p.N1037D
	<i>DSP</i>	NM_001008844:c.T6394C:p.Y2731H
	<i>KCNE1</i>	NM_001127670:c.C314T:p.S105L
	<i>MYH6</i>	NM_002471:c.G3164A:p.R1055Q
H132	<i>DSP</i>	NM_004415:c.G4105A:p.E1369K
	<i>RBM20</i>	NM_001134363:c.G1633A:p.V545I
	<i>TNNI3</i>	NM_000363:c.C592G:p.L198V
H134	<i>DSC2</i>	NM_024422:exon11:c.1264-5C>T
	<i>MYBPC3</i>	NM_000256:exon30:c.3330+5G>C
	<i>MYH6</i>	NM_002471:exon35:c.5163+1G>T
	<i>TTN</i>	NM_003319:c.A58496T:p.K19499I
	<i>TTN</i>	NM_003319:c.C74741G:p.P24914R
	<i>TTN</i>	NM_003319:c.G30488A:p.R10163H
	<i>TTN</i>	NM_133378:c.A30866G:p.E10289G
H135	<i>TNNT2</i>	NM_001001432:c.T221A:p.I79N
	<i>TTN</i>	NM_003319:c.A61090G:p.I20364V
	<i>TTN</i>	NM_003319:c.T68527C:p.Y22843H
	<i>TTN</i>	NM_133379:c.C15122G:p.T5041R
H136	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>TTN</i>	NM_003319:c.16639_16644del:p.5547_5548del
H139	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>KCNQ1</i>	NM_000218:c.C1201T:p.R401W
	<i>PNN</i>	NM_002687:c.A1646C:p.H549P
	<i>TTN</i>	NM_133437:exon44:c.9977-4G>A
	<i>TTN</i>	NM_003319:c.T39904C:p.S13302P
H140	<i>TNNI3</i>	NM_000363:c.G511A:p.A171T
	<i>TTN</i>	NM_003319:c.C25657T:p.R8553C
	<i>TTN</i>	NM_003319:c.G11659A:p.V3887M
H141	<i>ANK2</i>	NM_001148:c.C5231T:p.A1744V
	<i>MYH6</i>	NM_002471:c.C3932T:p.T1311I
	<i>TTN</i>	NM_003319:c.G19060T:p.A6354S
	<i>TTN</i>	NM_003319:c.G58601A:p.R19534H
H142	<i>RBM20</i>	NM_001134363:c.G3023A:p.R1008Q
	<i>TTN</i>	NM_003319:c.47401_47403del:p.15801_15801del
H143	<i>ANK2</i>	NM_020977:c.C5461T:p.R1821W
	<i>TNNT2</i>	NM_001001432:c.C814T:p.R278C
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
H144	<i>DSP</i>	NM_001008844:c.G1483A:p.V495M
	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.G20528A:p.R6843H
	<i>TTN</i>	NM_003319:c.G55615A:p.G18539S
	<i>TTN</i>	NM_133378:c.G16579C:p.E5527Q
	<i>TTN</i>	NM_133379:c.A13936G:p.K4646E
H145	<i>MYBPC3</i>	NM_000256:c.G2459A:p.R820Q
	<i>TTN</i>	NM_003319:c.G18785A:p.R6262H
	<i>TTN</i>	NM_133378:c.T32555C:p.V10852A
H146	<i>ANK2</i>	NM_001148:c.G7132A:p.E2378K
	<i>MYBPC3</i>	NM_000256:c.G977A:p.R326Q
H147	<i>MYBPC3</i>	NM_000256:c.C484T:p.Q162X

	<i>TTN</i>	NM_003319:c.G23990A:p.S7997N
H150	<i>JUP</i>	NM_002230:c.A1324T:p.I442F
	<i>MYBPC3</i>	NA(NM_000256:exon17:c.1624+5G>T)
	<i>TTN</i>	NM_003319:c.A19733G:p.H6578R
	<i>TTN</i>	NM_003319:c.C49544A:p.T16515K
	<i>TTN</i>	NM_003319:c.C57676T:p.R19226C
	<i>TTN</i>	NM_003319:c.T3467C:p.V1156A
H151	<i>TTN</i>	NM_003319:c.C41222T:p.T13741I
	<i>TTN</i>	NM_133378:c.C18047A:p.S6016Y
	<i>TTN</i>	NM_133379:c.C16001T:p.P5334L
H152	<i>ANK2</i>	NM_001148:c.G8240A:p.R2747H
	<i>DSG2</i>	NM_001943:c.A545G:p.N182S
	<i>MYH6</i>	NM_002471:c.G2071A:p.V691I
H153	<i>TTN</i>	NM_003319:c.G4394A:p.G1465D
	<i>TTN</i>	NM_003319:c.G65810T:p.S21937I
H154	<i>MYBPC3</i>	NM_000256:c.1019_1026del:p.340_342del
	<i>TTN</i>	NM_133378:c.A24205G:p.T8069A
H155	<i>CSRP3</i>	NM_001127656:c.T10C:p.W4R
	<i>DSP</i>	NM_004415:c.A5120G:p.Q1707R
	<i>TTN</i>	NM_003319:c.G43636A:p.A14546T
H156	<i>MYH6</i>	NM_002471:c.G5594A:p.R1865Q
	<i>TNNT2</i>	NM_000364:exon17:c.843-3C>A
H157	<i>PKP4</i>	NM_001005476:c.A329G:p.Q110R
	<i>TTN</i>	NM_133437:exon156:c.43097-5C>G
	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.G20528A:p.R6843H
	<i>TTN</i>	NM_133379:c.A13936G:p.K4646E
H159	<i>DSC2</i>	NM_024422:c.2685_2686insAG:p.A895fs
	<i>DSP</i>	NM_004415.2:p.K2450N
H160	<i>MYBPC3</i>	NM_000256:c.G1484A:p.R495Q
	<i>MYH6</i>	NA(NM_002471:exon23:c.2928+5G>A)
	<i>PLN</i>	NM_002667:c.C73T:p.R25C
H161	<i>DSP</i>	NM_004415.2:c.G4411A:p.D2070N
	<i>MYH7</i>	NM_000257:c.C1207T:p.R403W
H163	<i>DSC2</i>	NM_024422:c.2685_2686insAG:p.A895fs
	<i>DSP</i>	NM_004415.2:c.G4411A:p.D2070N
	<i>MYBPC3</i>	NM_000256:c.174_184del:p.58_62del
	<i>VCL</i>	NM_003373:c.A1555C:p.I519L
H164	<i>DSG2</i>	NM_001943:c.T473G:p.V158G
	<i>MYH7</i>	NM_000257:c.G4066A:p.E1356K
H165	<i>MYBPC3</i>	NM_000256:c.2604delT:p.G868fs
	<i>TTN</i>	NM_003319:c.C61199T:p.S20400F
	<i>TTN</i>	NM_003319:c.T4258C:p.F1420L
H167	<i>ANK2</i>	NM_020977:c.T4646A:p.V1549D
	<i>DSC2</i>	NM_004949:c.C266T:p.S89L
	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>MYH7</i>	NM_000257:c.G2609A:p.R870H
	<i>TTN</i>	NM_003319:c.C76441T:p.R25481C
	<i>TTN</i>	NM_003319:c.G20053A:p.V6685I
H169	<i>MYL3</i>	NM_000258:c.C476T:p.T159M
	<i>RBM20</i>	NM_001134363:c.G3373A:p.E1125K
	<i>TTN</i>	NM_003319:c.A25349G:p.H8450R

	<i>TTN</i>	NM_003319:c.G36598A:p.D12200N
H170	<i>MYBPC3</i>	NM_000256:c.G1624C:p.E542Q
	<i>TTN</i>	NM_003319:c.C21100T:p.R7034W
	<i>TTN</i>	NM_003319:c.C45796T:p.R15266C
H171	<i>TTN</i>	NM_003319:c.G20120A:p.R6707Q
	<i>TTN</i>	NM_133378:c.C15044G:p.T5015S
H172	<i>KCNH2</i>	NM_172057:c.G2144A:p.R715Q
	<i>RYR2</i>	NM_001035:c.C3037T:p.R1013W
H173	<i>ANK2</i>	NM_020977:c.G5536A:p.E1846K
	<i>DSP</i>	NM_004415.2:c.G4411A:p.D2070N
	<i>KCNQ1</i>	NM_000218:c.C458T:p.T153M
	<i>MYH6</i>	NM_002471:c.C4704A:p.N1568K
H174	<i>MYH7</i>	NM_000257:c.G1063A:p.A355T
	<i>TNNT2</i>	NM_001001432:c.A794T:p.N271I
	<i>TTN</i>	NM_133378:c.C28892T:p.P9631L
H175	<i>MYL2</i>	NM_000432:c.G64A:p.E22K
	<i>TTN</i>	NM_003319:c.T62789C:p.I20930T
	<i>TTN</i>	NM_133378:c.29784_29785insAGG:p.E9928delinsEG
H176	<i>RYR2</i>	NA(NM_001035:exon72:c.10324-4A>G)
	<i>RYR2</i>	NM_001035:c.C10681G:p.L3561V
H177	<i>DSC2</i>	NM_024422:c.2685_2686insAG:p.A895fs
	<i>PKP2</i>	NM_001005242:c.G775T:p.E259X
	<i>TTN</i>	NM_003319:c.G23419C:p.A7807P
H178	<i>MYH6</i>	NA(NM_002471:exon23:c.2928+5G>A)
	<i>TTN</i>	NM_003319:c.G62231A:p.R20744Q
H179	<i>CASQ2</i>	NM_001232:c.1183_1185del:p.395_395del
	<i>MYBPC3</i>	NM_000256:c.G655C:p.V219L
	<i>RBM20</i>	NM_001134363:c.G1766A:p.R589Q
	<i>TTN</i>	NM_003319:c.C49544A:p.T16515K
	<i>TTN</i>	NM_003319:c.G24587A:p.R8196Q
	<i>TTN</i>	NM_003319:c.T3467C:p.V1156A
H180	<i>MYH7</i>	NM_000257:c.G2221C:p.G741R
	<i>PKP4</i>	NM_001005476:c.A2168G:p.Y723C
H181	<i>TPM1</i>	NM_000366:exon4:c.375-5T>C
	<i>TTN</i>	NM_003319:c.A12880C:p.N4294H
	<i>TTN</i>	NM_003319:c.C33626T:p.P11209L
	<i>TTN</i>	NM_133378:c.C19500G:p.N6500K
H182	<i>MYBPC3</i>	NM_000256:c.2373_2374insG:p.Q791fs
	<i>RYR2</i>	NA(NM_001035:exon72:c.10324-4A>G)
	<i>TTN</i>	NM_003319:c.C71099G:p.A23700G
	<i>TTN</i>	NM_003319:c.G31202C:p.G10401A
	<i>TTN</i>	NM_003319:c.G34727A:p.R11576Q
	<i>TTN</i>	NM_133379:c.G16160A:p.C5387Y
H183	<i>RBM20</i>	NM_001134363:c.G3373A:p.E1125K
	<i>TTN</i>	NM_003319:c.G77056C:p.A25686P
H184	<i>ANK2</i>	NM_001148:c.A4373G:p.E1458G
	<i>MYBPC3</i>	NM_000256:exon26:c.2603-2A>G
	<i>TTN</i>	NM_133378:c.29769_29770insAGA:p.V9923delinsVE
	<i>TTN</i>	NM_133378:c.29780_29781insAAT:p.E9927delinsEX
H185	<i>CSRP3</i>	NM_001127656:c.T10C:p.W4R
	<i>TTN</i>	NM_003319:c.A45629T:p.K15210I
H186	<i>CAV3</i>	NM_001234:c.C216G:p.C72W

	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>MYBPC3</i>	NA(NM_000256:exon17:c.1624+4A>T)
	<i>MYH6</i>	NM_002471:c.C5140T:p.R1714W
	<i>SCN5A</i>	NM_001099405:c.T5956C:p.F2004L
H189	<i>MYH7</i>	NM_000257:c.G2348A:p.R783H
	<i>TTN</i>	NM_133378:c.A13316G:p.Y4439C
	<i>TTN</i>	NM_133379:c.C13586G:p.A4529G
H190	<i>DSC2</i>	NM_004949:c.C1787T:p.A596V
	<i>MYH7</i>	NM_000257:c.G1816A:p.V606M
H191	<i>TTN</i>	NM_003319:c.C41935T:p.P13979S
	<i>TTN</i>	NM_003319:c.C46139T:p.T15380I
H192	<i>MYH7</i>	NM_000257:c.T1870A:p.Y624N
	<i>TTN</i>	NM_003319:c.G72706A:p.E24236K
	<i>TTN</i>	NM_003319:c.T76493C:p.V25498A
	<i>TTN</i>	NM_133378:c.C13492T:p.L4498F
H195	<i>TTN</i>	NM_003319:c.A42481G:p.S14161G
	<i>TTN</i>	NM_003319:c.C2080A:p.R694S
	<i>TTN</i>	NM_003319:c.G20528A:p.R6843H
	<i>TTN</i>	NM_003319:c.T62794A:p.L20932M
	<i>TTN</i>	NM_133378:c.T20343G:p.I6781M
	<i>TTN</i>	NM_133379:c.A13936G:p.K4646E
	<i>VCL</i>	NM_003373:c.A1157G:p.K386R
H196	<i>DSC2</i>	NM_004949:c.G857T:p.G299+G31V
	<i>TTN</i>	NM_003319:c.G34874A:p.R11625Q
H197	<i>MYBPC3</i>	NM_000256:exon13:c.1090+1G>T
	<i>TTN</i>	NM_003319:c.A45736G:p.T15246A
H199	<i>ANK2</i>	NM_001148:c.G5032A:p.E1678K
	<i>DSG2</i>	NM_001943:c.C2750T:p.A917V
	<i>TTN</i>	NM_003319:c.A7085G:p.Q2362R
H200	<i>ANK2</i>	NM_001148:c.A7183C:p.T2395P
	<i>SCN5A</i>	NM_000335:c.G1655C:p.G552A
	<i>TPM1</i>	NM_001018005:c.A653G:p.D254G
H202	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>MYH6</i>	NM_002471:c.A1763C:p.D588A
H203	<i>TTN</i>	NM_003319:c.74120_74121insAGCCTTCAG:p.K24707 delinsKPSE
	<i>TTN</i>	NM_003319:c.74131_74132insCCTTCAGAT:p.P24711 delinsPSDP
	<i>TTN</i>	NM_003319:c.C26953T:p.R8985C
H205	<i>DSP</i>	NM_001008844:c.1_2insA:p.M1fs
	<i>MYH6</i>	NA(NM_002471:exon23:c.2928+5G>A)
	<i>PLN</i>	NM_002667:c.T53C:p.I18T
	<i>TTN</i>	NM_003319:c.A45629T:p.K15210I
	<i>TTN</i>	NM_003319:c.A47900G:p.Y15967C
H206	<i>MYBPC3</i>	NM_000256:c.2605_2606insC:p.P869fs
	<i>RBM20</i>	NM_001134363:c.C1364T:p.S455L
	<i>TTN</i>	NM_003319:c.C35416G:p.L11806V
H207	<i>RBM20</i>	NM_001134363:c.C1364T:p.S455L
	<i>TTN</i>	NM_003319:c.C35416G:p.L11806V
H208	<i>SCN5A</i>	NM_001099405:c.G5401A:p.D1819N
	<i>TTN</i>	NM_133437:exon179:c.70574-3T>C
	<i>TTN</i>	NM_003319:c.A44954G:p.E14985G
	<i>TTN</i>	NM_133378:c.G30865C:p.E10289Q

H209	<i>ANK2</i>	NM_001148:c.A7117G;p.T2373A
	<i>MYH6</i>	NM_002471:c.C2425T;p.R809C
	<i>RYR2</i>	NM_001035:c.C3151T;p.R1051C
	<i>RYR2</i>	NM_001035:c.G6450A;p.M2150I
	<i>TNNI3</i>	NM_000363:c.G485A;p.R162Q
	<i>TTN</i>	NM_003319:c.A16081G;p.K5361E
	<i>TTN</i>	NM_003319:c.G23222A;p.G7741E
	<i>TTN</i>	NM_133378:c.G31999A;p.E10667K