

**PATIENT INFORMATION**

First name		MI	Last name	
Date of birth (MM/DD/YYYY)	Sex <input type="radio"/> M <input type="radio"/> F	MRN (medical record number)		
Ancestry <input type="radio"/> Asian <input type="radio"/> Black/African American <input type="radio"/> White/Caucasian <input type="radio"/> Ashkenazi Jewish <input type="radio"/> Hispanic <input type="radio"/> Native American <input type="radio"/> Pacific Islander <input type="radio"/> Other:				
▶ Email address (for report access after release by medical professional)				
Phone		Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased date:		
Address			City	
State	ZIP code	Country		

**SPECIMEN INFORMATION**

Label each tube with the patient's full name, date of birth, and specimen collection date. A requisition form MUST accompany each specimen. [www.invitae.com/specimen-requirements](http://www.invitae.com/specimen-requirements)

Specimen type:  Blood  Saliva  Assisted saliva  DNA - source:  
*DNA must be extracted in a CLIA or other suitably certified laboratory*  
*We are unable to accept blood/saliva from patients with:*

- Allogeneic bone marrow transplants
- Blood transfusion <2 weeks prior to specimen collection

▶ Collection date (MM/DD/YYYY) Special cases  
 History of/current hematologic malignancy  
 Resubmission

**REASON FOR TESTING**

Primary indication:  Arrhythmia  
 Cardiomyopathy  
 Aortopathy  
 Other: \_\_\_\_\_

ICD-10 codes	Previous results
--------------	------------------

Testing for a personal history of disease?  Yes  No If yes, describe below.  
Age at diagnosis: \_\_\_\_\_

**ORGANIZATION INFORMATION**

**Organization name and address**

Organization name

Phone Fax

Address City

State ZIP code Country

**Primary clinical contact**

Name Role/title

Phone NPI

Email address (for report access)

**Ordering physician**

Same as primary clinical contact

Name NPI

Email address (for report access)

**Additional clinical or laboratory contact (optional)**

Name Email address (for report access)

**Letter of Medical Necessity (LMN)**

I have attached an LMN and/or other documentation for insurance billing purposes.  
 I agree to allow Invitae to transfer the information from this requisition to an LMN and/or other documentation using the ordering physician's name as the signature for insurance billing.

Family history?  Yes  No If yes, describe in detail below or attach pedigree.  
If there is a known familial variant, indicate here.

**INSURANCE BILLING (U.S. ONLY)**

I have attached a copy of the patient's card

Insurance company name	Member ID#
Patient relation to policy holder: <input type="radio"/> Self <input type="radio"/> Child <input type="radio"/> Spouse <input type="radio"/> Other	
Policy holder name	Prior-authorization #

**PATIENT PAY BILLING**

Invitae will send an electronic invoice to the patient email listed above

**INSTITUTIONAL BILLING**

Send invoice to organization address above

Billing contact name	Phone	Fax
Billing email address		
Billing address		City
State	ZIP code	Country

**OTHER BILLING** Invitae partner code:

By signing this form, the medical professional acknowledges that the individual/family member authorized to make decisions for the individual (collectively, the "Patient") has been supplied information regarding and consented to undergo genetic testing, substantially as set forth in Invitae's Informed Consent for Genetic Testing ([www.invitae.com/patient-consent](http://www.invitae.com/patient-consent)), and has been informed that Invitae may notify them of clinical updates related to genetic test results (in consultation with the ordering medical professional as indicated). The Patient has further been informed and hereby authorizes Invitae Corporation ("Invitae") and its designees to release information concerning testing to their insurer in order to process and/or appeal claims on behalf of the Patient. For amounts received directly, the Patient agrees to remit payment to Invitae for testing services rendered. I acknowledge that I offered pre-test Genetic Counseling to the Patient, if required by their insurer. In addition to the above, I attest that I am the ordering physician, or I am authorized by the ordering physician to order this test, or I am authorized under applicable state law to order this test.

▶ Medical professional signature Date

**ORDER INSTRUCTIONS**

Select a pre-curated test, combine multiple tests, or customize your own test for each patient. Invitae's pricing is per clinical area for initial order and re-requisition. All tests on this form fall into a single clinical area. If your order contains tests from multiple clinical areas, you will need to send in two sample tubes and your order will represent two billable events. Your test results will be delivered as two reports. Please contact Client Services with any questions. For Invitae's full test menu, please visit [www.invitae.com](http://www.invitae.com).

**RE-REQUISITION**

Invitae offers one re-requisition at no additional charge within 90 days for genes within the original clinical area. For more information and to request online, please visit [www.invitae.com/re-requisition](http://www.invitae.com/re-requisition).

**FAMILY VARIANT TESTING**

Invitae offers Family Variant Testing at no additional charge within 90 days for the genes in which the original family member's variant was identified. In such cases, please use the Family Variant Testing/VUS Resolution requisition form (TRF920), available at [www.invitae.com/forms](http://www.invitae.com/forms).

**PRELIMINARY-EVIDENCE GENES**

Invitae's primary panels contain genes for which there is definitive evidence that variants in these genes cause specific diseases. Preliminary-evidence genes are genes for which there is only early evidence of a relationship between variants in these genes and specific diseases. All preliminary-evidence genes are indicated as such on the requisition form below.

**ASSAY**

Invitae is a CAP-accredited and CLIA-certified clinical diagnostic laboratory performing full-gene sequencing and deletion/duplication analysis using next-generation sequencing technology (NGS). Search for details on the analysis of any gene in our test catalog at [www.invitae.com/physician/search](http://www.invitae.com/physician/search).

*Invitae continually updates its panels based on the most recent evidence. Please note that if an order is placed using an older version of this form, Invitae reserves the right to upgrade any ordered panel(s) to the current version(s). To avoid confusion, please consider placing your order using our online test catalog.*

To request a complimentary specimen collection kit visit [www.invitae.com/request-a-kit](http://www.invitae.com/request-a-kit)

**SHIPPING INSTRUCTIONS**  
Please ship specimen overnight in insulated containers:

**Attn: Invitae Client Services**  
**1400 16th Street**  
**San Francisco, CA 94103**  
**USA**

**PRE-CURATED CARDIOLOGY PANELS**

Test code	Test name	# gene(s)	Gene list
<b>Arrhythmia and Cardiomyopathy</b>			
<input type="radio"/> 02101	Invitae Arrhythmia and Cardiomyopathy Comprehensive Panel	67	ABCC9, ACTC1, ACTN2, AGL, ANK2, BAG3, CACNA1C, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FHL1, FKRP, FKTN, FLNC, GAA, GLA, GPD1L, HCN4, JUP, KCNA5, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LAMP2, LMNA, MYBPC3, MYH7, MYL2, MYL3, MYL4, NKX2-5, PKP2, PLN, PRKAG2, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TGFB3, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TRDN, TTN, TTR, VCL
<input type="radio"/> 02101.1	Add-on preliminary-evidence genes	47	AKAP9, ANKRD1, CACNA2D1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, GJA5, ILK, JPH2, KCND3, KCNE3, KCNE5, KCNJ5, KCNJ8, KCNK3, LAMA4, LDB3, LRRC10, MED12, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEBL, NEXN, NPPA, PDLIM3, PLEKHM2, PRDM16, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SLMAP, SNTA1, TMPO, TRPM4, TXNRD2
<input type="radio"/> 02101.2	Add-on RASopathy genes not included in panel	17	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 02101.3	Add-on genes associated with autosomal recessive syndromic pediatric cardiomyopathy	8	ACADVL, ALMS1, CPT2, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
<input type="radio"/> 02101.4	Add-on sudden unexpected death in epilepsy (SUDEP) genes for arrhythmia and cardiomyopathy	10	DEPDC5, KCNQ2, KCNQ3, KCNT1, PCDH19, PRRT2, SCN1A, SCN8A, SCN9A, SLC2A1

**PRE-CURATED CARDIOLOGY PANELS (continued)**

Test code	Test name	# gene(s)	Gene list
<b>Arrhythmia</b>			
○ 02201	Invitae Arrhythmia Comprehensive Panel	39	ABCC9, ACTN2, ANK2, CACNA1C, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, DES, DSC2, DSG2, DSP, EMD, FLNC, GPD1L, HCN4, JUP, KCNA5, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LMNA, MYL4, NKX2-5, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TMEM43, TNNI3, TNNT2, TRDN, TTN
○ 02201.1	Add-on preliminary-evidence genes	24	AKAP9, ANKRD1, CACNA2D1, CTNNA3, GJA5, KCND3, KCNE3, KCNE5, KCNJ5, KCNJ8, KCNK3, LDB3, NPPA, PDLIM3, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SLMAP, SNTA1, TGFB3, TRPM4
○ 02201.2	Add-on sudden unexpected death in epilepsy (SUDEP) genes for arrhythmia	10	DEPDC5, KCNQ2, KCNQ3, KCNT1, PCDH19, PRRT2, SCN1A, SCN8A, SCN9A, SLC2A1
○ 02263	Invitae Arrhythmogenic Cardiomyopathy Panel	19	ACTN2, DES, DSC2, DSG2, DSP, EMD, FLNC, JUP, LMNA, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TMEM43, TNNI3, TNNT2, TTN
○ 02263.1	Add-on preliminary-evidence genes	5	ANKRD1, CTNNA3, LDB3, PDLIM3, TGFB3
○ 02212	Invitae Brugada Syndrome Panel	8	ABCC9, CACNA1C, CACNB2, GPD1L, HCN4, KCNH2, PKP2, SCN5A
○ 02212.1	Add-on preliminary-evidence genes	12	CACNA2D1, KCND3, KCNE3, KCNE5, KCNJ8, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SLMAP, TRPM4
○ 02213	Invitae Catecholaminergic Polymorphic Ventricular Tachycardia Panel	8	ANK2, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TRDN
○ 02211	Invitae Long QT Syndrome Panel	13	ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, SCN5A, TRDN
○ 02211.1	Add-on preliminary-evidence genes	4	AKAP9, KCNJ5, SCN4B, SNTA1
○ 02214	Invitae Short QT Syndrome Panel	5	CACNA1C, CACNB2, KCNH2, KCNJ2, KCNQ1
○ 02214.1	Add-on preliminary-evidence gene	1	CACNA2D1
<b>Cardiomyopathy</b>			
○ 02251	Invitae Cardiomyopathy Comprehensive Panel	50	ABCC9, ACTC1, ACTN2, AGL, BAG3, CACNA1C, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FHL1, FKRP, FKTN, FLNC, GAA, GLA, HCN4, JUP, LAMP2, LMNA, MYBPC3, MYH7, MYL2, MYL3, PKP2, PLN, PRKAG2, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TTN, TTR, VCL
○ 02251.1	Add-on preliminary-evidence genes	31	ANKRD1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, ILK, JPH2, LAMA4, LDB3, LRRC10, MED12, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, TGFB3, TMPO, TXNRD2
○ 02251.2	Add-on RASopathy genes not included in panel	17	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
○ 02251.3	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	8	ACADVL, ALMS1, CPT2, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
○ 02263	Invitae Arrhythmogenic Cardiomyopathy Panel	19	ACTN2, DES, DSC2, DSG2, DSP, EMD, JUP, LMNA, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TGFB3, TMEM43, TNNI3, TNNT2, TTN
○ 02263.1	Add-on preliminary-evidence genes	4	ANKRD1, CTNNA3, LDB3, PDLIM3
○ 02262	Invitae Dilated Cardiomyopathy Panel	41	ABCC9, ACTC1, ACTN2, BAG3, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FKRP, FKTN, FLNC, JUP, LAMP2, LMNA, MYBPC3, MYH7, PKP2, PLN, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TTN, TTR, VCL
○ 02262.1	Add-on preliminary-evidence genes	23	ANKRD1, CHRM2, CTF1, FHL2, GATA4, GATA6, GATAD1, ILK, LAMA4, LDB3, LRRC10, MED12, MYH6, MYPN, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, TMPO, TXNRD2
○ 02262.2	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	6	ACADVL, ALMS1, CPT2, DNAJC19, SDHA, TMEM70

**PRE-CURATED CARDIOLOGY PANELS (continued)**

Test code	Test name	# gene(s)	Gene list
<b>Cardiomyopathy (continued)</b>			
<input type="radio"/> 02261	Invitae Hypertrophic Cardiomyopathy Panel	26	ACTC1, ACTN2, AGL, BAG3, CACNA1C, CAV3, CSRP3, DES, FHL1, FLNC, GAA, GLA, LAMP2, MYBPC3, MYH7, MYL2, MYL3, PLN, PRKAG2, TCAP, TNNC1, TNNI3, TNNT2, TPM1, TTR, VCL
<input type="radio"/> 02261.1	Add-on preliminary-evidence genes	12	ANKRD1, CALR3, GATA4, JPH2, LDB3, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEXN, PDLIM3
<input type="radio"/> 02261.2	Add-on RASopathy genes	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 02261.3	Add-on genes associated with autosomal recessive syndromic pediatric cardiomyopathy	4	ACADVL, CPT2, ELAC2, MTO1
<input type="radio"/> 02264	Invitae Left Ventricular Noncompaction Panel	15	ACTC1, DSP, HCN4, LAMP2, LMNA, MYBPC3, MYH7, PLN, RYR2, SCN5A, TAZ, TNNI3, TNNT2, TPM1, VCL
<input type="radio"/> 02264.1	Add-on preliminary-evidence genes	4	DTNA, LDB3, PLEKHM2, PRDM16
<input type="radio"/> 02265	Invitae Transthyretin Amyloidosis Test	1	TTR
<input type="radio"/> 05201	Invitae Hereditary Hemochromatosis Panel	5	HAMP, HFE, HFE2, SLC40A1, TFR2
<input type="radio"/> 04151	Invitae RASopathies Comprehensive Panel	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<b>Cardiomyopathy and Skeletal Muscle Disease</b>			
<input type="radio"/> 02252	Invitae Cardiomyopathy and Skeletal Muscle Disease Panel	115	ABCC9, ACTA1, ACTC1, ACTN2, AGL, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1C, CAPN3, CAV3, CCDC78, CFL2, CHKB, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, CPT2, CRYAB, CSRP3, DAG1, DES, DMD, DNAJB6, DNM2, DOLK, DPM1, DPM2, DPM3, DSC2, DSG2, DSP, DYSF, EMD, EYA4, FHL1, FKBP14, FKRP, FKTN, FLNC, GAA, GLA, GMPPB, GNE, HCN4, ISPD, ITGA7, JUP, KBTBD13, KLHL40, KLHL41, LAMA2, LAMP2, LARGE1, LMNA, LMOD3, MATR3, MEGF10, MTM1, MYBPC3, MYH7, MYL2, MYL3, MYOT, MYPN, NEB, PKP2, PLEC, PLN, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PRKAG2, RAF1, RBM20, RYR1, RYR2, SCN5A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC22A5, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TMEM43, TMEM5, TNNC1, TNNI3, TNNT1, TNNT2, TNPO3, TOR1AIP1, TPM1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, TTR, VCL, VCP
<input type="radio"/> 02252.1	Add-on preliminary-evidence genes	36	ANKRD1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, HNRNPDL, ILK, JPH2, LAMA4, LDB3, LIMS2, LRRC10, MYF6, MYH6, MYLK2, MYOM1, MYOZ2, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, SUN1, SUN2, SYNE1, SYNE2, TGFB3, TMPO, TXNRD2
<input type="radio"/> 02252.2	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	7	ACADVL, ALMS1, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
<b>Aortopathy and Connective Tissue Disorders</b>			
<input type="radio"/> 02301	Invitae Aortopathy Comprehensive Panel	23	ACTA2, CBS, COL3A1, COL5A1, COL5A2, EFEMP2, FBN1, FBN2, FLNA, MED12, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFB3, TGFB1, TGFB2
<input type="radio"/> 02301.1	Add-on preliminary-evidence genes	2	MAT2A, SMAD6
<input type="radio"/> 02313	Invitae Ehlers-Danlos Syndrome Panel	15	ADAMTS2, ATP7A, CHST14, COL12A1, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, CRTAP, FLNA, FKBP14, P3H1, PLOD1, SLC39A13
<input type="radio"/> 02311	Invitae Loews-Dietz Syndrome Panel	4	SMAD3, TGFB2, TGFB1, TGFB2
<input type="radio"/> 02311.1	Add-on clinically overlapping genes	2	FBN1, TGFB3
<input type="radio"/> 02312	Invitae Marfan Syndrome Test	1	FBN1

PRE-CURATED CARDIOLOGY PANELS (continued)			
Test code	Test name	# gene(s)	Gene list
<b>Familial Hypercholesterolemia</b>			
<input type="radio"/> 02401	Invitae Familial Hypercholesterolemia Panel	4	APOB, LDLR, LDLRAP1, PCSK9
<b>Pulmonary Hypertension</b>			
<input type="radio"/> 02351	Invitae Pulmonary Arterial Hypertension Panel	4	ACVRL1, BMPR2, CAV1, ENG
	<input type="radio"/> 02351.1 Add-on preliminary-evidence genes	5	BMPR1B, GDF2, KCNA5, KCNK3, SMAD9
<input type="radio"/> 02352	Invitae Hereditary Hemorrhagic Telangiectasia Panel	5	ACVRL1, ENG, GDF2, RASA1, SMAD4
<input type="radio"/> 04166	Invitae Capillary Malformation-Arteriovenous Malformation Syndrome Test	1	RASA1
	<input type="radio"/> 04166.1 Add-on hereditary hemorrhagic telangiectasia genes	3	ACVRL1, ENG, SMAD4
<b>Congenital Heart Disease</b>			
<input type="radio"/> 04204	Invitae Congenital Heart Disease Panel	42	ACTC1, ACVR2B, ALMS1, BCOR, BRAF, CBL, CHD7, CRELD1, ELN, FOXH1, GATA4, GATA6, GDF1, GJA1, GPC3, HAND1, HRAS, JAG1, KRAS, LEFTY2, MAP2K1, MAP2K2, MED13L, MEIS2, MYH6, NKX2-5, NKX2-6, NODAL, NOTCH1, NR2F2, NRAS, NSD1, PTPN11, RAF1, RIT1, SHOC2, SMAD6, SOS1, TBX1, TBX5, ZFPM2, ZIC3
<input type="radio"/> 04211	Invitae CHARGE Syndrome Test	1	CHD7
<input type="radio"/> 04212	Invitae Holt-Oram Syndrome Test	1	TBX5
<input type="radio"/> 04151	Invitae RASopathies Comprehensive Panel	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 04214	Invitae Sotos Syndrome Test	1	NSD1

**INDIVIDUAL GENES**

<input type="radio"/> A2ML1	<input type="radio"/> ATL3	<input type="radio"/> CHCHD2	<input type="radio"/> DEPDC5	<input type="radio"/> FBN2	<input type="radio"/> GPD1L	<input type="radio"/> KCNJ8	<input type="radio"/> MARS
<input type="radio"/> AARS	<input type="radio"/> ATP13A2	<input type="radio"/> CHD7	<input type="radio"/> DES	<input type="radio"/> FBXO38	<input type="radio"/> GRN	<input type="radio"/> KCNK3	<input type="radio"/> MAT2A
<input type="radio"/> ABCC9	<input type="radio"/> ATP1A3	<input type="radio"/> CHKB	<input type="radio"/> DMD	<input type="radio"/> FBXO7	<input type="radio"/> HAMP	<input type="radio"/> KCNQ1	<input type="radio"/> MATR3
<input type="radio"/> ABCD1	<input type="radio"/> ATP2A1	<input type="radio"/> CHMP2B	<input type="radio"/> DNAJB2	<input type="radio"/> FGD4	<input type="radio"/> HAND1	<input type="radio"/> KCNQ2	<input type="radio"/> MED12
<input type="radio"/> ACADVL	<input type="radio"/> ATP7A	<input type="radio"/> CHRM2	<input type="radio"/> DNAJB6	<input type="radio"/> FHL1	<input type="radio"/> HARS	<input type="radio"/> KCNQ3	<input type="radio"/> MED13L
<input type="radio"/> ACTA1	<input type="radio"/> B3GALNT2	<input type="radio"/> CHRNA1	<input type="radio"/> DNAJC19	<input type="radio"/> FHL2	<input type="radio"/> HCN4	<input type="radio"/> KCNT1	<input type="radio"/> MED25
<input type="radio"/> ACTA2	<input type="radio"/> B4GALNT1	<input type="radio"/> CHRN1	<input type="radio"/> DNAJC6	<input type="radio"/> FIG4	<input type="radio"/> HFE	<input type="radio"/> KCTD17	<input type="radio"/> MEGF10
<input type="radio"/> ACTB	<input type="radio"/> B4GAT1	<input type="radio"/> CHRND	<input type="radio"/> DNMT2	<input type="radio"/> FKBP14	<input type="radio"/> HFE2	<input type="radio"/> KDM5C	<input type="radio"/> MEIS2
<input type="radio"/> ACTC1	<input type="radio"/> BAG3	<input type="radio"/> CHRNE	<input type="radio"/> DNMT1	<input type="radio"/> FKRP	<input type="radio"/> HINT1	<input type="radio"/> KIF1A	<input type="radio"/> MFN2
<input type="radio"/> ACTN2	<input type="radio"/> BCOR	<input type="radio"/> CHST14	<input type="radio"/> DOK7	<input type="radio"/> FKTN	<input type="radio"/> HNRNPA2B1	<input type="radio"/> KIF1C	<input type="radio"/> MORC2
<input type="radio"/> ACVR2B	<input type="radio"/> BICD2	<input type="radio"/> CIZ1	<input type="radio"/> DOLK	<input type="radio"/> FLNA	<input type="radio"/> HNRNPDL	<input type="radio"/> KIF5A	<input type="radio"/> MPZ
<input type="radio"/> ACVRL1	<input type="radio"/> BIN1	<input type="radio"/> CLCN1	<input type="radio"/> DPAGT1	<input type="radio"/> FLNC	<input type="radio"/> HPCA	<input type="radio"/> KLHL40	<input type="radio"/> MTM1
<input type="radio"/> ADAMTS2	<input type="radio"/> BMPR1B	<input type="radio"/> CNTN1	<input type="radio"/> DPM1	<input type="radio"/> FLRT1	<input type="radio"/> HRAS	<input type="radio"/> KLHL41	<input type="radio"/> MTMR2
<input type="radio"/> AGL	<input type="radio"/> BMPR2	<input type="radio"/> COL12A1	<input type="radio"/> DPM2	<input type="radio"/> FOXH1	<input type="radio"/> HSPB1	<input type="radio"/> KRAS	<input type="radio"/> MTO1
<input type="radio"/> AGRN	<input type="radio"/> BRAF	<input type="radio"/> COL1A1	<input type="radio"/> DPM3	<input type="radio"/> FUS	<input type="radio"/> HSPB3	<input type="radio"/> L1CAM	<input type="radio"/> MUSK
<input type="radio"/> AIFM1	<input type="radio"/> BSCL2	<input type="radio"/> COL1A2	<input type="radio"/> DRD2	<input type="radio"/> GAA	<input type="radio"/> HSPB8	<input type="radio"/> LAMA2	<input type="radio"/> MYBPC3
<input type="radio"/> AKAP9	<input type="radio"/> C12orf65	<input type="radio"/> COL3A1	<input type="radio"/> DSC2	<input type="radio"/> GAN	<input type="radio"/> HSPD1	<input type="radio"/> LAMA4	<input type="radio"/> MYF6
<input type="radio"/> ALDH18A1	<input type="radio"/> C19orf12	<input type="radio"/> COL5A1	<input type="radio"/> DSG2	<input type="radio"/> GARS	<input type="radio"/> IBA57	<input type="radio"/> LAMB2	<input type="radio"/> MYH11
<input type="radio"/> ALG14	<input type="radio"/> CACNA1C	<input type="radio"/> COL5A2	<input type="radio"/> DSP	<input type="radio"/> GATA4	<input type="radio"/> IGHMBP2	<input type="radio"/> LAMP2	<input type="radio"/> MYH2
<input type="radio"/> ALG2	<input type="radio"/> CACNA1S	<input type="radio"/> COL6A1	<input type="radio"/> DST	<input type="radio"/> GATA6	<input type="radio"/> IKBKAP	<input type="radio"/> LARGE1	<input type="radio"/> MYH6
<input type="radio"/> ALMS1	<input type="radio"/> CACNA2D1	<input type="radio"/> COL6A2	<input type="radio"/> DTNA	<input type="radio"/> GATAD1	<input type="radio"/> ILK	<input type="radio"/> LAS1L	<input type="radio"/> MYH7
<input type="radio"/> ALS2	<input type="radio"/> CACNB2	<input type="radio"/> COL6A3	<input type="radio"/> DYNC1H1	<input type="radio"/> GBA2	<input type="radio"/> INF2	<input type="radio"/> LDB3	<input type="radio"/> MYL2
<input type="radio"/> AMPD2	<input type="radio"/> CALM1	<input type="radio"/> COLQ	<input type="radio"/> DYSF	<input type="radio"/> GCH1	<input type="radio"/> ISPD	<input type="radio"/> LDLR	<input type="radio"/> MYL3
<input type="radio"/> ANK2	<input type="radio"/> CALM2	<input type="radio"/> CPT1C	<input type="radio"/> EFEMP2	<input type="radio"/> GDAP1	<input type="radio"/> ITGA7	<input type="radio"/> LDLRAP1	<input type="radio"/> MYL4
<input type="radio"/> ANKRD1	<input type="radio"/> CALM3	<input type="radio"/> CPT2	<input type="radio"/> EGR2	<input type="radio"/> GDF1	<input type="radio"/> JAG1	<input type="radio"/> LEFTY2	<input type="radio"/> MYLK
<input type="radio"/> ANO3	<input type="radio"/> CALR3	<input type="radio"/> CRELD1	<input type="radio"/> ELAC2	<input type="radio"/> GDF2	<input type="radio"/> JPH2	<input type="radio"/> LIMS2	<input type="radio"/> MYLK2
<input type="radio"/> ANO5	<input type="radio"/> CAPN3	<input type="radio"/> CRTAP	<input type="radio"/> ELN	<input type="radio"/> GFPT1	<input type="radio"/> JUP	<input type="radio"/> LITAF	<input type="radio"/> MYOM1
<input type="radio"/> AP4B1	<input type="radio"/> CASQ2	<input type="radio"/> CRYAB	<input type="radio"/> EMD	<input type="radio"/> GJA1	<input type="radio"/> KBTBD13	<input type="radio"/> LMNA	<input type="radio"/> MYOT
<input type="radio"/> AP4E1	<input type="radio"/> CAV1	<input type="radio"/> CSRP3	<input type="radio"/> ENG	<input type="radio"/> GJA5	<input type="radio"/> KCNA5	<input type="radio"/> LMOD3	<input type="radio"/> MYOZ2
<input type="radio"/> AP4M1	<input type="radio"/> CAV3	<input type="radio"/> CTF1	<input type="radio"/> ENTPD1	<input type="radio"/> GJB1	<input type="radio"/> KCND3	<input type="radio"/> LRP4	<input type="radio"/> MYPN
<input type="radio"/> AP4S1	<input type="radio"/> CBL	<input type="radio"/> CTNNA3	<input type="radio"/> ERLIN1	<input type="radio"/> GJC2	<input type="radio"/> KCNE1	<input type="radio"/> LRR10	<input type="radio"/> NDRG1
<input type="radio"/> AP5Z1	<input type="radio"/> CBS	<input type="radio"/> CYP2U1	<input type="radio"/> ERLIN2	<input type="radio"/> GLA	<input type="radio"/> KCNE2	<input type="radio"/> LRRK2	<input type="radio"/> NEB
<input type="radio"/> APOB	<input type="radio"/> CCDC78	<input type="radio"/> CYP7B1	<input type="radio"/> EXOSC3	<input type="radio"/> GMPPB	<input type="radio"/> KCNE3	<input type="radio"/> LRSAM1	<input type="radio"/> NEBL
<input type="radio"/> APP	<input type="radio"/> CCT5	<input type="radio"/> DAG1	<input type="radio"/> EYA4	<input type="radio"/> GNAL	<input type="radio"/> KCNE5	<input type="radio"/> MAG	<input type="radio"/> NEFL
<input type="radio"/> ARL6IP1	<input type="radio"/> CFL2	<input type="radio"/> DCTN1	<input type="radio"/> FA2H	<input type="radio"/> GNB4	<input type="radio"/> KCNH2	<input type="radio"/> MAP2K1	<input type="radio"/> NEXN
<input type="radio"/> ARSI	<input type="radio"/> CHAT	<input type="radio"/> DDHD1	<input type="radio"/> FAM134B	<input type="radio"/> GNE	<input type="radio"/> KCNJ2	<input type="radio"/> MAP2K2	<input type="radio"/> NF1
<input type="radio"/> ATL1	<input type="radio"/> CHCHD10	<input type="radio"/> DDHD2	<input type="radio"/> FBN1	<input type="radio"/> GPC3	<input type="radio"/> KCNJ5	<input type="radio"/> MAPT	<input type="radio"/> NGF

INDIVIDUAL GENES (continued)							
<input type="radio"/> NIPA1	<input type="radio"/> PLEKHM2	<input type="radio"/> PSEN2	<input type="radio"/> SCN4A	<input type="radio"/> SLC40A1	<input type="radio"/> SPRED1	<input type="radio"/> TH	<input type="radio"/> TTR
<input type="radio"/> NKX2-5	<input type="radio"/> PLN	<input type="radio"/> PTPN11	<input type="radio"/> SCN4B	<input type="radio"/> SLC52A2	<input type="radio"/> SPTLC1	<input type="radio"/> THAP1	<input type="radio"/> TUBB4A
<input type="radio"/> NKX2-6	<input type="radio"/> PLOD1	<input type="radio"/> RAB3GAP2	<input type="radio"/> SCN5A	<input type="radio"/> SLC52A3	<input type="radio"/> SPTLC2	<input type="radio"/> TIA1	<input type="radio"/> TXNRD2
<input type="radio"/> NODAL	<input type="radio"/> PLP1	<input type="radio"/> RAB7A	<input type="radio"/> SCN8A	<input type="radio"/> SLC5A7	<input type="radio"/> SQSTM1	<input type="radio"/> TMEM43	<input type="radio"/> UBA1
<input type="radio"/> NOTCH1	<input type="radio"/> PMP22	<input type="radio"/> RAF1	<input type="radio"/> SCN9A	<input type="radio"/> SLC6A3	<input type="radio"/> STAC3	<input type="radio"/> TMEM5	<input type="radio"/> UBQLN2
<input type="radio"/> NPPA	<input type="radio"/> PNKD	<input type="radio"/> RANGRF	<input type="radio"/> SDHA	<input type="radio"/> SLMAP	<input type="radio"/> STIM1	<input type="radio"/> TMEM70	<input type="radio"/> USP8
<input type="radio"/> NR2F2	<input type="radio"/> PNPLA2	<input type="radio"/> RAPSN	<input type="radio"/> SELENON	<input type="radio"/> SMAD3	<input type="radio"/> SUN1	<input type="radio"/> TMPO	<input type="radio"/> VAMP1
<input type="radio"/> NRAS	<input type="radio"/> PNPLA6	<input type="radio"/> RASA1	<input type="radio"/> SETX	<input type="radio"/> SMAD4	<input type="radio"/> SUN2	<input type="radio"/> TNNC1	<input type="radio"/> VAPB
<input type="radio"/> NSD1	<input type="radio"/> POMGNT1	<input type="radio"/> RBM20	<input type="radio"/> SGCA	<input type="radio"/> SMAD6	<input type="radio"/> SURF1	<input type="radio"/> TNNI3	<input type="radio"/> VCL
<input type="radio"/> NT5C2	<input type="radio"/> POMGNT2	<input type="radio"/> REEP1	<input type="radio"/> SGCB	<input type="radio"/> SMAD9	<input type="radio"/> SYNE1	<input type="radio"/> TNNT1	<input type="radio"/> VCP
<input type="radio"/> NTRK1	<input type="radio"/> POMK	<input type="radio"/> REEP2	<input type="radio"/> SGCD	<input type="radio"/> SMCHD1	<input type="radio"/> SYNE2	<input type="radio"/> TNNT2	<input type="radio"/> VMA21
<input type="radio"/> OPTN	<input type="radio"/> POMT1	<input type="radio"/> RIT1	<input type="radio"/> SGCE	<input type="radio"/> SMN1, SMN2	<input type="radio"/> TARDBP	<input type="radio"/> TNPO3	<input type="radio"/> VPS35
<input type="radio"/> P3H1	<input type="radio"/> POMT2	<input type="radio"/> RRAS	<input type="radio"/> SGCG	<input type="radio"/> SNAP25	<input type="radio"/> TAZ	<input type="radio"/> TOR1A	<input type="radio"/> VPS37A
<input type="radio"/> PARK2	<input type="radio"/> PRDM12	<input type="radio"/> RTN2	<input type="radio"/> SH3TC2	<input type="radio"/> SNCA	<input type="radio"/> TBK1	<input type="radio"/> TOR1AIP1	<input type="radio"/> VRK1
<input type="radio"/> PARK7	<input type="radio"/> PRDM16	<input type="radio"/> RYR1	<input type="radio"/> SHOC2	<input type="radio"/> SNTA1	<input type="radio"/> TBX1	<input type="radio"/> TPM1	<input type="radio"/> WASHC5
<input type="radio"/> PCDH19	<input type="radio"/> PREPL	<input type="radio"/> RYR2	<input type="radio"/> SIGMAR1	<input type="radio"/> SOD1	<input type="radio"/> TBX5	<input type="radio"/> TPM2	<input type="radio"/> WNK1
<input type="radio"/> PCSK9	<input type="radio"/> PRKAG2	<input type="radio"/> SACS	<input type="radio"/> SKI	<input type="radio"/> SOS1	<input type="radio"/> TCAP	<input type="radio"/> TPM3	<input type="radio"/> YARS
<input type="radio"/> PDK3	<input type="radio"/> PRKG1	<input type="radio"/> SBF2	<input type="radio"/> SLC16A2	<input type="radio"/> SOS2	<input type="radio"/> TECPR2	<input type="radio"/> TRAPPC11	<input type="radio"/> ZFPM2
<input type="radio"/> PDLIM3	<input type="radio"/> PRKRA	<input type="radio"/> SCN10A	<input type="radio"/> SLC22A5	<input type="radio"/> SPAST	<input type="radio"/> TFG	<input type="radio"/> TRDN	<input type="radio"/> ZFR
<input type="radio"/> PGAP1	<input type="radio"/> PRNP	<input type="radio"/> SCN11A	<input type="radio"/> SLC25A46	<input type="radio"/> SPG11	<input type="radio"/> TFR2	<input type="radio"/> TRIM2	<input type="radio"/> ZFYVE26
<input type="radio"/> PINK1	<input type="radio"/> PRPS1	<input type="radio"/> SCN1A	<input type="radio"/> SLC2A1	<input type="radio"/> SPG20	<input type="radio"/> TGFB2	<input type="radio"/> TRIM32	<input type="radio"/> ZFYVE27
<input type="radio"/> PKP2	<input type="radio"/> PRRT2	<input type="radio"/> SCN1B	<input type="radio"/> SLC2A10	<input type="radio"/> SPG21	<input type="radio"/> TGFB3	<input type="radio"/> TRPM4	<input type="radio"/> ZIC3
<input type="radio"/> PLEC	<input type="radio"/> PRX	<input type="radio"/> SCN2B	<input type="radio"/> SLC33A1	<input type="radio"/> SPG7	<input type="radio"/> TGFBRI	<input type="radio"/> TRPV4	
<input type="radio"/> PLEKHG5	<input type="radio"/> PSEN1	<input type="radio"/> SCN3B	<input type="radio"/> SLC39A13	<input type="radio"/> SPR	<input type="radio"/> TGFBRI2	<input type="radio"/> TTN	