

All sections on this page are required unless otherwise specified. Incomplete information could result in a delay of testing.

## PATIENT INFORMATION

<b>First Name</b>		<b>Last Name</b>	
<b>Sex Assigned at Birth:</b> <input type="radio"/> Male <input type="radio"/> Female		<b>Date of Birth (mm/dd/yy)</b>	
Patient Karyotype (if known): _____			
Gender Identification (optional): _____			
<b>Email</b>			
Address			
City		State	Zip Code
<b>Phone</b> (mobile preferred)		Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased Date: _____	

## SAMPLE INFORMATION

<b>Date Sample Collected (mm/dd/yy)</b>	<b>Medical Record #</b>
<input type="radio"/> Blood <input type="radio"/> Buccal Swab <input type="radio"/> Other (specify source): _____	
<input type="checkbox"/> <b>Treatment-related RUSH</b> (optional) Reason: <input type="radio"/> Transplantation <input type="radio"/> Pregnancy <input type="radio"/> Surgery <input type="radio"/> Other: _____	
<b>Patient has had a blood transfusion</b> <input type="radio"/> Yes <input type="radio"/> No <b>Date of Last Transfusion:</b> _____ (2-4 weeks of wait time is required for some testing)	
<b>Patient has had an allogeneic bone marrow transplant</b> <input type="radio"/> Yes <input type="radio"/> No Fibroblasts are required for patients who had an allogeneic bone marrow transplant. See <a href="http://www.genedx.com/specimen-requirements">www.genedx.com/specimen-requirements</a> for details.	
<b>Patient has a personal history of a hematologic malignancy or disease</b> <input type="radio"/> Yes (specify diagnosis) _____ <input type="radio"/> No If yes, please call the lab to discuss with a genetic counselor the most appropriate sample type.	

## ORDERING PROVIDER ATTESTATION

By signing this form, the ordering provider attests that (i) he/she authorizes and directs GeneDx to perform the testing indicated; (ii) he/she is the ordering provider and is authorized by law to order the test(s) requested; (iii) any test(s) requested on this Test Requisition Form ("TRF") are reasonable and medically necessary for the diagnosis or treatment of a disease, illness, impairment, symptom, syndrome or disorder; (iv) the test results will determine the patient's medical management and treatment decisions of this patient's condition on this date of service; (v) the patient or the individual/family member authorized to make decisions for the patient (collectively, the "patient"), in addition to any relatives, when applicable, has been supplied with information regarding genetic testing, and has consented to undergo genetic testing; (vi) the full and appropriate diagnosis codes are indicated to the highest level of specificity; (vii) he/she will not seek reimbursement from any third party, including but not limited to federal healthcare programs if testing is covered by GeneDx and will inform the patient of the same; (viii) GeneDx may share contact information for the ordering provider and other healthcare providers listed on the this order with third parties regarding the requested genetic testing and potential clinical trial or study opportunities; and (ix) the patient or the individual/family member authorized to be contacted via the email address or mobile phone number provided for this and future testing.

- New York Retention Opt-in.** By checking this box, I confirm that the patient is a New York State resident who gives permission for GeneDx to retain any remaining sample longer than 60 days after testing has been completed.
- Patient Research Opt-Out.** By checking this box, I confirm that the patient wishes to opt out of being contacted for research studies.
- Health Information Exchange Opt-in.** Check this box if your patient resides in CA, FL, MA, NV, NY, RI, and VT and wishes to opt-in to having their information shared for Health Information Exchange participation.
- Health Information Exchange Opt-out.** Check this box if your patient resides in any other US state or territory and wishes to opt-out of participation in Health Information Exchange.

<b>Signature of Ordering Provider</b>	<b>Date</b>
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## ACCOUNT INFORMATION

<b>GeneDx Account Number</b>	<b>Account Name</b>		
Phone	Fax		
Address			
City	State	Zip Code	
<b>Ordering Provider Name</b>			<b>Role/Title</b>
<b>NPI</b>	Phone Number		
Send Report Via: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Portal			
Fax #/Email: _____			
<b>Additional Ordering Provider Name (optional)</b>			<b>Role/Title</b>
<b>NPI</b>			
Send Report Via: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Portal			
Fax #/Email: _____			
<b>SEND ADDITIONAL REPORT COPIES TO (optional)</b>			
Provider Name		GeneDx Acct#	
Fax #/Email: _____			

## ICD-10-CM CODES

<b>ICD-10-CM Codes</b> to support all test(s) ordered	
Clinical Diagnosis	Age of Onset

## PAYMENT OPTIONS (Select One)

<input type="radio"/> <b>INSURANCE BILL</b> Select all that apply <input type="checkbox"/> Commercial <input type="checkbox"/> Medicaid <input type="checkbox"/> Medicare <input type="checkbox"/> Tricare <input type="checkbox"/> CHAMPVA  FOR ALL INSURANCE PROVIDE FRONT AND BACK COPY OF CARD(S)	<b>Patient Status</b> <input type="radio"/> Hospital outpatient <input type="radio"/> Hospital inpatient; Date of Discharge: _____ <input type="radio"/> Not a hospital patient	
	<b>Name of Insurance Carrier</b> _____ <b>Insurance ID#:</b> _____	
	Relationship to Insured <input type="radio"/> Self <input type="radio"/> Spouse <input type="radio"/> Child <input type="radio"/> Other: _____	
	Policy Holder's Name _____ Policy Holder's Date of Birth _____	
	Referral/Prior Authorization # (please attach) _____ Secondary Insurance Type: _____	Hold test for cost estimate and contact patient <input type="checkbox"/> if estimate is >\$250 (commercial insurance only)
	Insurance Carrier _____ Insurance ID # _____ Relationship to Insured <input type="radio"/> Self <input type="radio"/> Spouse <input type="radio"/> Child <input type="radio"/> Other: _____	Subscriber Name _____ Date of Birth _____
<input type="radio"/> <b>PATIENT BILL</b>	If Patient Bill is selected, I am electing to be treated as a self-pay patient for this testing. I agree that neither GeneDx nor I will submit a claim to my insurance for this testing, if I have insurance. GeneDx will send an invoice to the patient listed above.  <b>Authorized Patient/Guardian Signature</b>	
<input type="radio"/> <b>INSTITUTIONAL BILL</b>	GeneDx Account # _____ Hospital/Lab Name _____ Place Sticker/Stamp Here	

First Name	Last Name	Date of Birth
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**CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED)**

Is this person affected:  Yes  No      Clinical diagnosis: \_\_\_\_\_

Reason for testing:  Diagnosis    Presymptomatic diagnosis    Carrier/Familial variant testing

Please check all that apply. This is not a substitute for submitting clinical records.

**Diagnosis**

- Amyloidosis
- ARVC
- Brugada syndrome
- CPVT
- DCM
- Ehlers-Danlos syndrome
- HCM
- HHT
- Hypertension
- Loeys-Dietz syndrome
- LQT syndrome
- Noncompaction cardiomyopathy (LVNC)
- Marfan syndrome
- PAH
- RCM
- SQT syndrome
- Sudden Cardiac Arrest
- Sudden Death

**Echocardiogram**

- Aortic root dimensions: \_\_\_\_\_  
Z-score: \_\_\_\_\_
- EF%: \_\_\_\_\_
- LVEDD: \_\_\_\_\_  
Z-score: \_\_\_\_\_
- Max LV wall thickness: \_\_\_\_\_
- Normal
- Report Included

**ECG**

- Prolonged QTc interval:  
Max QTc: \_\_\_\_\_
- Normal
- Report Included

**Arrhythmia/Cardiomyopathy**

- Abnormal atrioventricular conduction
- Atrial fibrillation
- Bradycardia
- Fatty replacement of ventricular myocardial tissue
- Heart transplant
- Syncope
- Torsades de pointe
- Ventricular tachycardia

**HHT**

- Arteriovenous malformation
- Epistaxis
- Telangiectasia

**Dislipidemias**

- Atherosclerosis
- Corneal arcus
- LDL-C levels: \_\_\_\_\_
- Xanthomatosis
- Other: \_\_\_\_\_

**Marfan/TAAD/HDCT**

- Aortic/Arterial aneurysm
- Aortic/Arterial dissection
- Aortic root dilation
- Arachnodactyly
- Arterial tortuosity/ectasia
- Arthralgia
- Atypical scarring of skin
- Beighton score: \_\_\_\_\_
- Bifid uvula
- Blue sclerae
- Bruising susceptibility
- Cleft lip
- Cleft palate
- Craniosynostosis
- Cutis laxa
- Dental crowding
- Dural ectasia
- Ectopia lentis
- Flexion contracture
- High palate
- Hollow organ rupture:  
 Uterine rupture  
 Intestinal perforation  
 Other: \_\_\_\_\_
- Hypertelorism
- Joint contractures
- Joint dislocations
- Joint hypermobility
- Meets Ghent criteria
- Micrognathia / Retrognathia (circle what applies)
- Midface retrusion
- Mitral valve prolapse
- Myopia
- Osteoarthritis
- Pectus carinatum
- Pectus excavatum
- Pes planus
- Pneumothorax
- Recurrent fractures
- Retinal detachment
- Scoliosis/kyphosis (circle what applies)
- Skin findings, Specify: \_\_\_\_\_
- Stroke
- Tall stature
- Velvety skin

**Abnormal heart morphology**

- Bicuspid aortic valve
- Coarctation of aorta
- Heart murmur
- Heterotaxy
- Hypoplastic left heart
- Mitral valve prolapse
- Patent ductus arteriosus
- Patent foramen ovale
- Tetralogy of Fallot
- Ventricular septal defect
- Atrial septal defect
- Other: \_\_\_\_\_

**PAH**

- Pulmonary hypertension

**Other**

- Abnormality of the periventricular white matter
- Angiokeratomas
- Anhydrosis
- Café-au-lait macules
- Hearing impairment:  
 Sensorineural  
 Conductive
- Craniosynostosis
- Cystic hygroma
- Downslanted palpebral fissures
- Dysmorphic features:  
Describe: \_\_\_\_\_
- Elevated CPK
- Hypotonia
- Increase nuchal translucency
- Intellectual disability
- Keratoconus
- Muscle weakness
- Myopathy
- Renal insufficiency
- Short neck
- Thromboembolism  
Type: \_\_\_\_\_

**Attach pedigree and/or include additional clinical information:**

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# CARDIOLOGY TEST REQUISITION FORM



First Name	Last Name	Date of Birth
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## FAMILY HISTORY

No Known Family History     
  Pedigree Attached     
  Adopted

Relationship	Maternal	Paternal	Relevant History	Age at Dx
1	<input type="radio"/>	<input type="radio"/>		
2	<input type="radio"/>	<input type="radio"/>		
3	<input type="radio"/>	<input type="radio"/>		

## PREVIOUS GENETIC TESTING

Personal or family history of genetic testing     No     Yes (If yes, please complete all fields below)

Relation to patient (self, sibling, etc.), Genetic Test(s) and Result (e.g. positive, negative, etc.). If relative was tested at GeneDx, please also provide their accession #: \_\_\_\_\_

If patient or relative(s) were found to have a positive or VUS result on prior testing, please provide details below. Indicate any Variants of Interest<sup>‡</sup> via the checkbox below.

Relation (self, sibling, etc.)	Gene	Transcript #	c./p. (SNV) or exon # (CNV)	Build, coordinates (CNV)	Variant of Interest? <sup>‡</sup>
1					<input type="checkbox"/>
2					<input type="checkbox"/>
3					<input type="checkbox"/>

**Required for sequence variants:** gene, c./p., transcript #  
**Required for CNVs:** gene, transcript #, exon # OR build, coordinates

Abnormal karyotype, FISH, or other results: \_\_\_\_\_

<sup>‡</sup> For certain tests, GeneDx **may** be able to specifically comment upon the presence or absence of previously identified variant(s) of interest in the report. Complete variant information must be provided in the table above at the time the test order is placed. If you do not complete the table above and check off that a previously identified variant is a variant of interest, it will not be possible to comment upon the presence or absence of the variant in the report retrospectively. This service is not applicable to targeted variant testing.

## TARGETED VARIANT TESTING

Individual to be tested:     Affected/Symptomatic       Unaffected/Asymptomatic

Known Familial Variant(s) in a Nuclear Gene     
  Confirmation of Variant Identified in Research Lab     
  Targeted Mosaic Variant Testing\*  
 Known Familial Copy Number Variant(s)     
  Known mtDNA Variant(s) Testing     
 \*Insurance Billing NOT Accepted; Patient Bill or Institutional Bill MUST be selected on page 1

Proband Name	Relationship to Proband	Proband GeneDx Accession #
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Non-GeneDx Test:     Family member test report included (recommended if previous test was performed at another lab)  
 Positive control included/will be sent - **Positive control is recommended if previous test was performed at another lab.**  
 Positive control not available (caveat language will be included on a negative report)

**VARIANT INFORMATION** (please fill out the below information if family member report is not included)      Number of Variants: \_\_\_\_\_

Gene	Coding DNA (c./m.)	Amino Acid (p.)	Transcript (NM#)
Gene	Coding DNA (c./m.)	Amino Acid (p.)	Transcript (NM#)

**COPY NUMBER VARIANT**      Number of Variants: \_\_\_\_\_

Gene(s)	Exon #	Coordinates	Genome Build
Gene(s)	Exon #	Coordinates	Genome Build

# CARDIOLOGY TEST REQUISITION FORM



First Name	Last Name	Date of Birth
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**TEST MENU**

TEST CODE	TEST NAME	TEST CODE	TEST NAME
<input type="checkbox"/> 910	Chromosomal Microarray (MicroarrayDx)	<input type="checkbox"/> TJ07	<i>Xpanded</i> <sup>®</sup> Congenital Heart Defects Panel

**FAMILY MEMBER FOR XPANDED<sup>®</sup> PANEL TESTING OPTION**
**NO SEPARATE REPORT, ADDITIONAL SAMPLES MUST BE RECEIVED WITHIN 3 WEEKS OF PROBAND SAMPLE. See Test Menu page for proband test selection.**

TJ33	<i>Xpanded</i> <sup>®</sup> Congenital Heart Defects, Family member testing			
<b>Biological Mother</b>	First Name	Last Name	DOB	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic <input type="radio"/> At GeneDx (Accession #: _____) <input type="radio"/> Not available <input type="radio"/> To be sent within 3 weeks
<b>Biological Father</b>	First Name	Last Name	DOB	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic <input type="radio"/> At GeneDx (Accession #: _____) <input type="radio"/> Not available <input type="radio"/> To be sent within 3 weeks
<b>Other Biological Relative</b>	Relationship to Proband			
	First Name	Last Name	DOB	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic <input type="radio"/> At GeneDx (Accession #: _____) <input type="radio"/> Not available <input type="radio"/> To be sent within 3 weeks

**TEST MENU (continued)**

TEST CODE	TEST NAME	TEST CODE	TEST NAME
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**ARRHYTHMIA TESTING OPTIONS**

<input type="checkbox"/> 695	Arrhythmia Sequencing and Del/Dup Panel	<input type="checkbox"/> 483	ARVC Sequencing and Del/Dup Panel
<input type="checkbox"/> 695RE	Reflex to Rest of Combined Cardiac after Arrhythmia Panel	<input type="checkbox"/> 483RE	Reflex to Rest of Combined Cardiac after ARVC Panel
<input type="checkbox"/> 481	Brugada syndrome Sequencing and Del/Dup Panel	<input type="checkbox"/> J552	SCA Arrhythmia Sequencing and Del/Dup Panel
<input type="checkbox"/> 481RE	Reflex to Rest of Arrhythmia after Brugada Syndrome Panel	<input type="checkbox"/> J552RE	Reflex to Rest of Arrhythmia after SCA Arrhythmia Panel
<input type="checkbox"/> 727	LQTS Sequencing and Del/Dup Panel		
<input type="checkbox"/> 727RE	Reflex to Rest of Arrhythmia after LQTS Panel		

**CARDIOMYOPATHY TESTING OPTIONS**

<input type="checkbox"/> 694	Cardiomyopathy Sequencing and Del/Dup Panel	<input type="checkbox"/> 483	ARVC Sequencing and Del/Dup Panel
<input type="checkbox"/> 694RE	Reflex to Rest of Combined Cardiac after Cardiomyopathy Panel	<input type="checkbox"/> 483RE	Reflex to Rest of Combined Cardiac after ARVC Panel
<input type="checkbox"/> J554	DCM/LVNC Sequencing and Del/Dup Panel	<input type="checkbox"/> J553	HCM Sequencing and Del/Dup Panel
<input type="checkbox"/> J554RE	Reflex to Rest of Cardiomyopathy after DCM Panel	<input type="checkbox"/> J553RE	Reflex to Rest of Cardiomyopathy after HCM Panel

**COMBINED ARRHYTHMIA AND CARDIOMYOPATHY TESTING OPTIONS**

<input type="checkbox"/> 935	Combined Cardiac Panel		
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**LIPIDEMIAS TESTING OPTIONS**

<input type="checkbox"/> J556	Familial Hypercholesterolemia Sequencing and Del/Dup Panel	<input type="checkbox"/> TA01	Familial Dyslipidemia Sequencing and Del/Dup Panel
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**MARFAN/TAAD AND OTHER CONNECTIVE TISSUE TESTING OPTIONS**

<input type="checkbox"/> T998	Ehlers Danlos Sequencing and Del/Dup Panel	<input type="checkbox"/> TA02	Stickler Syndrome Sequencing and Del/Dup Panel
<input type="checkbox"/> 883	Marfan/TAAD Sequencing and Del/Dup Panel	<input type="checkbox"/> J555	Heritable Disorders of Connective Tissue (HDCT) Sequencing and Del/Dup Panel
<input type="checkbox"/> 883RE	Reflex to Rest of Heritable Disorders of Connective Tissue after Marfan/TAAD Panel		
<input type="checkbox"/> 918	<i>FBNI</i> Sequencing and Del/Dup	<input type="checkbox"/> 919	Rest of Marfan/TAAD Sequencing 25 and Del/Dup if Test #918 is negative

GeneDx tests are frequently updated and improved based upon the most recent scientific evidence. The test codes, genes, and gene quantities listed on this test requisition are subject to change by GeneDx at any time. The most current test menu, list of genes, and technical limitations included for a specific test panel may be found on our website, genedx.com. Please note that GeneDx reserves the right to modify and upgrade any ordered panel to the version currently listed on our website.

# CARDIOLOGY TEST REQUISITION FORM



First Name	Last Name	Date of Birth
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**TEST MENU (continued)**

TEST CODE	TEST NAME	TEST CODE	TEST NAME
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**OTHER CARDIAC-RELATED GENETIC TESTING OPTIONS**

<input type="checkbox"/> 697	HHT Sequencing and Del/Dup Panel	<input type="checkbox"/> TA06	Noonan and RASopathies Sequencing and Del/Dup Panel
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**CUSTOM DEL/DUP TESTING**

<input type="checkbox"/> 906	Deletion/Duplication Analysis of ONE Nuclear Gene	<input type="checkbox"/> 703	Deletion/Duplication Analysis of 2-20 Nuclear Genes
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Write-in Desired Gene(s) to be Tested: \_\_\_\_\_

**WRITE-IN TEST SELECTION**

Test Code: \_\_\_\_\_ Test Name: \_\_\_\_\_

\*Rest of panels are not a stand alone tests and must be ordered in conjunction with the original parent panel.

**CUSTOM CARDIOLOGY PANEL**

<input type="checkbox"/> J779	Create your own panel by choosing from the Custom Cardiology Gene List below
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**CUSTOM CARDIOLOGY GENE LIST**
**Primary Disease Genes on the Cardiogenetics Menu**

<input type="checkbox"/> ABCC9	<input type="checkbox"/> BGN	<input type="checkbox"/> COL2A1	<input type="checkbox"/> ELN	<input type="checkbox"/> GLA	<input type="checkbox"/> KCNJ8	<input type="checkbox"/> MYBPC3	<input type="checkbox"/> PLOD1	<input type="checkbox"/> SCN5A	<input type="checkbox"/> TMEM43
<input type="checkbox"/> ACTA2	<input type="checkbox"/> BMPR2	<input type="checkbox"/> COL3A1	<input type="checkbox"/> EMD	<input type="checkbox"/> GNB5	<input type="checkbox"/> KCNK3	<input type="checkbox"/> MYH11	<input type="checkbox"/> PPA2	<input type="checkbox"/> SGCD	<input type="checkbox"/> TMPO
<input type="checkbox"/> ACTC1	<input type="checkbox"/> BRAF	<input type="checkbox"/> COL5A1	<input type="checkbox"/> ENG	<input type="checkbox"/> GPDIL	<input type="checkbox"/> KCNQ1	<input type="checkbox"/> MYH6	<input type="checkbox"/> PRDM16	<input type="checkbox"/> SHOC2	<input type="checkbox"/> TNNC1
<input type="checkbox"/> ACTN2	<input type="checkbox"/> CACNA1C	<input type="checkbox"/> COL5A2	<input type="checkbox"/> EYA4	<input type="checkbox"/> HCN4	<input type="checkbox"/> KRAS	<input type="checkbox"/> MYH7	<input type="checkbox"/> PRDM5	<input type="checkbox"/> SKI	<input type="checkbox"/> TNNI3
<input type="checkbox"/> ACVRL1	<input type="checkbox"/> CACNA2D1	<input type="checkbox"/> COL9A1	<input type="checkbox"/> FBLN5	<input type="checkbox"/> HFE	<input type="checkbox"/> LAMA4	<input type="checkbox"/> MYL2	<input type="checkbox"/> PRKAG2	<input type="checkbox"/> SLC2A10	<input type="checkbox"/> TNNI2
<input type="checkbox"/> ADAMTS2	<input type="checkbox"/> CACNB2	<input type="checkbox"/> COL9A2	<input type="checkbox"/> FBNI	<input type="checkbox"/> HRAS*	<input type="checkbox"/> LAMP2	<input type="checkbox"/> MYL3	<input type="checkbox"/> PRKG1	<input type="checkbox"/> SLC39A13	<input type="checkbox"/> TNXB
<input type="checkbox"/> AKAP9	<input type="checkbox"/> CALM1^	<input type="checkbox"/> COL9A3	<input type="checkbox"/> FBN2	<input type="checkbox"/> ILK	<input type="checkbox"/> LDB3	<input type="checkbox"/> MYL4	<input type="checkbox"/> PTPN11	<input type="checkbox"/> SMAD2	<input type="checkbox"/> TOR1AIP1
<input type="checkbox"/> ALDH18A1	<input type="checkbox"/> CALM2	<input type="checkbox"/> CRYAB	<input type="checkbox"/> FHL1	<input type="checkbox"/> JPH2	<input type="checkbox"/> LDLR	<input type="checkbox"/> MYLK	<input type="checkbox"/> PYCR1	<input type="checkbox"/> SMAD3	<input type="checkbox"/> TPM1
<input type="checkbox"/> ALMS1	<input type="checkbox"/> CALM3	<input type="checkbox"/> CSRP3	<input type="checkbox"/> FKBP14	<input type="checkbox"/> JUP	<input type="checkbox"/> LDLRAP1	<input type="checkbox"/> MYLK2	<input type="checkbox"/> RAF1	<input type="checkbox"/> SMAD4	<input type="checkbox"/> TRDN
<input type="checkbox"/> ALPK3	<input type="checkbox"/> CASQ2	<input type="checkbox"/> CTNNA3	<input type="checkbox"/> FKRP*	<input type="checkbox"/> KCNA5	<input type="checkbox"/> LMNA	<input type="checkbox"/> MYO22	<input type="checkbox"/> RANGRF	<input type="checkbox"/> SMAD9	<input type="checkbox"/> TRPM4
<input type="checkbox"/> ANK2	<input type="checkbox"/> CAV1	<input type="checkbox"/> DES	<input type="checkbox"/> FKTN	<input type="checkbox"/> KCND3	<input type="checkbox"/> LOX	<input type="checkbox"/> MYPN	<input type="checkbox"/> RASA1	<input type="checkbox"/> SNTA1	<input type="checkbox"/> TTN
<input type="checkbox"/> ANKRD1	<input type="checkbox"/> CAV3	<input type="checkbox"/> DMD	<input type="checkbox"/> FLNA	<input type="checkbox"/> KCNE1	<input type="checkbox"/> LRRC10	<input type="checkbox"/> NEBL	<input type="checkbox"/> RBM20	<input type="checkbox"/> SOS1	<input type="checkbox"/> TTR
<input type="checkbox"/> APOB	<input type="checkbox"/> CBS	<input type="checkbox"/> DOLK	<input type="checkbox"/> FLNC	<input type="checkbox"/> KCNE1L	<input type="checkbox"/> LTBP4	<input type="checkbox"/> NEXN	<input type="checkbox"/> RIN2	<input type="checkbox"/> TAZ^	<input type="checkbox"/> TXNRD2
<input type="checkbox"/> ATP6V0A2	<input type="checkbox"/> CHR2	<input type="checkbox"/> DSC2	<input type="checkbox"/> GAA	<input type="checkbox"/> KCNE5	<input type="checkbox"/> MAP2K1	<input type="checkbox"/> NKX2-5	<input type="checkbox"/> RIT1	<input type="checkbox"/> TBX20^	<input type="checkbox"/> VCL
<input type="checkbox"/> ATP6V1E1	<input type="checkbox"/> CHST14	<input type="checkbox"/> DSE	<input type="checkbox"/> GATA4	<input type="checkbox"/> KCNE2	<input type="checkbox"/> MAP2K2	<input type="checkbox"/> NOTCH1	<input type="checkbox"/> RYR2	<input type="checkbox"/> TCAP	<input type="checkbox"/> ZNF469
<input type="checkbox"/> ATP7A	<input type="checkbox"/> COL11A1	<input type="checkbox"/> DSG2	<input type="checkbox"/> GATA5^	<input type="checkbox"/> KCNE3	<input type="checkbox"/> MAT2A	<input type="checkbox"/> NRAS	<input type="checkbox"/> SCN10A	<input type="checkbox"/> TECRL	
<input type="checkbox"/> B3GALT6*	<input type="checkbox"/> COL11A2	<input type="checkbox"/> DSP	<input type="checkbox"/> GATA6	<input type="checkbox"/> KCNH2	<input type="checkbox"/> MED12	<input type="checkbox"/> PCSK9	<input type="checkbox"/> SCNIB^	<input type="checkbox"/> TGFB2	
<input type="checkbox"/> B3GAT3	<input type="checkbox"/> COL12A1	<input type="checkbox"/> DTNA	<input type="checkbox"/> GATAD1	<input type="checkbox"/> (HERG)	<input type="checkbox"/> MFAP5	<input type="checkbox"/> PDLIM3	<input type="checkbox"/> SCN2B	<input type="checkbox"/> TGFB3	
<input type="checkbox"/> B4GALT7	<input type="checkbox"/> COL1A1	<input type="checkbox"/> EFEMP2	<input type="checkbox"/> GDF2	<input type="checkbox"/> KCNJ2	<input type="checkbox"/> MIB1	<input type="checkbox"/> PKP2	<input type="checkbox"/> SCN3B	<input type="checkbox"/> TGFBRI	
<input type="checkbox"/> BAG3	<input type="checkbox"/> COL1A2	<input type="checkbox"/> EIF2AK4	<input type="checkbox"/> GJA5	<input type="checkbox"/> KCNJ5	<input type="checkbox"/> MURC	<input type="checkbox"/> PLN	<input type="checkbox"/> SCN4B	<input type="checkbox"/> TGFBRI2	

**Expanded Phenotype Genes**

<input type="checkbox"/> ABCC6	<input type="checkbox"/> ADAMTS17	<input type="checkbox"/> COX15	<input type="checkbox"/> FOXC2	<input type="checkbox"/> KLF10	<input type="checkbox"/> MYO1	<input type="checkbox"/> SCO2*	<input type="checkbox"/> SOS2	<input type="checkbox"/> TMEM70
<input type="checkbox"/> ACADVL	<input type="checkbox"/> ADAMTSL4	<input type="checkbox"/> CPT1A	<input type="checkbox"/> FOXF1	<input type="checkbox"/> LTBP2	<input type="checkbox"/> NPPA	<input type="checkbox"/> SLC25A20	<input type="checkbox"/> SYNE1	<input type="checkbox"/> TRIM63
<input type="checkbox"/> ACTA1	<input type="checkbox"/> AGL	<input type="checkbox"/> CTF1*	<input type="checkbox"/> FOXPRED1	<input type="checkbox"/> LZTR1	<input type="checkbox"/> PLEC	<input type="checkbox"/> SLC25A3	<input type="checkbox"/> SYNE2	<input type="checkbox"/> TSFM
<input type="checkbox"/> ACVR1	<input type="checkbox"/> ASPH	<input type="checkbox"/> DNAJC19	<input type="checkbox"/> GLBI	<input type="checkbox"/> MRPS22	<input type="checkbox"/> RRAS	<input type="checkbox"/> SLC25A4	<input type="checkbox"/> TBX1*	<input type="checkbox"/> UPF3B
<input type="checkbox"/> ADAMTS10	<input type="checkbox"/> COL4A1	<input type="checkbox"/> ELAC2	<input type="checkbox"/> JAG1	<input type="checkbox"/> MTO1	<input type="checkbox"/> SCARF2	<input type="checkbox"/> SMS	<input type="checkbox"/> TBX5	<input type="checkbox"/> XK

**Limited Evidence Genes**

<input type="checkbox"/> AEBP1	<input type="checkbox"/> CALR3	<input type="checkbox"/> FHL2	<input type="checkbox"/> KCNJ16	<input type="checkbox"/> MRPL3	<input type="checkbox"/> PI4KA	<input type="checkbox"/> SCN4A	<input type="checkbox"/> SMAD1
<input type="checkbox"/> ATP6VOD2	<input type="checkbox"/> CBLN2	<input type="checkbox"/> FHOD3	<input type="checkbox"/> KCNT1^	<input type="checkbox"/> MYO6	<input type="checkbox"/> PLEKHM2	<input type="checkbox"/> SCNNA	<input type="checkbox"/> SMAD6
<input type="checkbox"/> BMPR1B	<input type="checkbox"/> COA5^	<input type="checkbox"/> FOXE3*	<input type="checkbox"/> LZTS1	<input type="checkbox"/> NKX2-6	<input type="checkbox"/> PLOD3	<input type="checkbox"/> SLC2A5	<input type="checkbox"/> SPRY1
<input type="checkbox"/> CALR	<input type="checkbox"/> FGF12	<input type="checkbox"/> KCNB2	<input type="checkbox"/> MAP3K8	<input type="checkbox"/> NOSIAP	<input type="checkbox"/> RASA2	<input type="checkbox"/> SLMAP	<input type="checkbox"/> TAB2

\* Del/Dup analysis not offered ^ Gene level resolution; may not detect exon level events

**DID YOU REMEMBER TO...?**

- Label specimen tube appropriately with TWO identifiers
- Get a signature for medical necessity and patient consent

GeneDx tests are frequently updated and improved based upon the most recent scientific evidence. The test codes, genes, and gene quantities listed on this test requisition are subject to change by GeneDx at any time. The most current test menu, list of genes, and technical limitations included for a specific test panel may be found on our website, genedx.com. Please note that GeneDx reserves the right to modify and upgrade any ordered panel to the version currently listed on our website.

First Name	Last Name	Date of Birth
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For the purposes of this consent, "I", "my", and "your" will refer to me or to my child, including my unborn child, if my child is the person for whom the healthcare provider has ordered testing.

#### PURPOSE OF THIS TEST

The purpose of this test is (a) to see if I may have a genetic variant or chromosome rearrangement causing a genetic disorder; or (b) to evaluate the chance that I will develop or pass on a genetic disorder in the future. If I already know the specific gene variant(s) or chromosome rearrangement that causes the genetic disorder in my family, I agree to inform the laboratory of this information.

#### WHAT TYPE OF TEST RESULTS CAN I EXPECT FROM GENETIC TESTING?

- Positive:** A change in your DNA was found, which is very likely the cause of your features/symptoms. This is the most straightforward test result, which can be used as the basis to test other family members to determine their chances of having either the disease or a child with the disease.
- Negative:** No variants were found to explain your symptoms. This does not mean that you do not have a genetic condition. It is still possible that there is a genetic variant not found by the test that was ordered. Your healthcare provider or genetic counselor may discuss more testing either now or in the future.
- Variant of Uncertain Significance (VUS):** A change in a gene was found. However, we are not sure whether this variant is the cause of your symptoms/features. More information is needed. We may suggest testing other family members to help figure out the meaning of the test result.
- Unexpected Results (ACMG Secondary Findings):** In rare instances, this test may reveal an important genetic change that is not directly related to the reason for ordering this test. For example, this test may find you are at risk for another genetic condition I am not aware of or it may indicate differences in the number or rearrangement of sex chromosomes. We may disclose this information to the ordering healthcare provider if it likely affects medical care.

Because medical and scientific knowledge is constantly changing, new information that becomes available may supplement the information GeneDx used to interpret my results. Healthcare providers can contact GeneDx at any time to discuss the classification of an identified variant.

#### WHAT IS TRIO/DUO-BASED GENETIC TESTING?

For some genetic tests, including samples from the biological parents and/or other biological relatives along with the patient's sample can help with the interpretation of the test results. These tests are often referred to as "trio tests" since they typically include samples from the patient and both parents.

Samples from relatives should be submitted with the patient's sample. Clinical information must be provided for the patient and any relative who submits a sample.

I understand that GeneDx will use the relative sample(s) when needed for the interpretation of my test results and that my test report may include clinical and genetic information about a relative when it is relevant to the interpretation of the test results. I further understand that relatives will not receive an independent analysis of data nor a separate report.

#### RISKS AND LIMITATIONS OF GENETIC TESTING

- In some cases, testing may not identify a genetic variant even though one exists. This may be due to limitations in current medical knowledge or testing technology.
- Accurate interpretation of test results may require knowing the true biological relationships in a family. I understand that if I fail to accurately state the biological relationships in my family, it could lead to incorrect interpretation of the test results, incorrect diagnoses, and/or inconclusive test results. If genetic testing reveals that the true biological relationships in a family are not as I reported them, including non-paternity (the reported father is not the biological father) and consanguinity (the parents are related by blood), I agree to have these findings reported to the healthcare provider who ordered the test.
- Although genetic testing is highly accurate, inaccurate results may occur. These reasons include, but are not limited to mislabeled samples, inaccurate reporting of clinical/medical information, rare technical errors, or other reasons.
- I understand that this test may not detect all of the long-term medical risks that I might experience. The result of this test does not guarantee my health and that additional diagnostic tests may still need to be done.
- I agree to provide an additional sample if the initial sample is not adequate.

#### PATIENT CONFIDENTIALITY AND GENETIC COUNSELING

It is recommended that I receive genetic counseling before and after having this genetic test. I can find a genetic counselor in my area at [www.nsgc.org](http://www.nsgc.org). Further testing or additional consultations with a healthcare provider may be necessary.

To maintain confidentiality, test results will only be released to the referring healthcare provider, the ordering laboratory, to me, to other healthcare providers involved in my care, diagnosis and treatment, or to others with my consent or as permitted or required by law. Federal laws prohibit unauthorized disclosure of this information. More information can be found at: [www.genome.gov/10002077](http://www.genome.gov/10002077)

#### SAMPLE RETENTION

After testing is complete, my sample may be de-identified and be used for test development and improvement, internal validation, quality assurance, and training purposes. GeneDx will not return DNA samples to you or to referring healthcare providers, unless specific prior arrangements have been made.

I understand that samples from residents of New York State will not be included in the de-identified research studies described in this authorization and GeneDx will not retain them for more than 60 days after test completion, unless specifically authorized by my selection. The authorization is optional, and testing will be unaffected if I do not check the box for the New York authorization language. GeneDx will not perform any tests on the biological sample other than those specifically authorized.

#### DATABASE PARTICIPATION

De-identified health history and genetic information can help healthcare providers and scientists understand how genes affect human health. Sharing this de-identified information helps healthcare providers to provide better care for their patients and researchers to make new discoveries. GeneDx shares this type of information with healthcare providers, scientists, and healthcare databases. GeneDx will not share any personally identifying information and will replace the identifying information with a unique code not derived from any personally identifying information. Even with a unique code, there is a risk that I could be identified based on the genetic and health information that is shared. GeneDx believes that this is unlikely, though the risk is greater if I have already shared my genetic or health information with public resources, such as genealogy websites.

#### EPILEPSY PARTNERSHIP PROGRAM PARTICIPATION

I understand that GeneDx will send de-identified test results data, excluding ACMG secondary findings, to third parties for research or commercial purposes and that GeneDx is compensated for the provision of testing services and for data sharing with third parties that is compliant with applicable law. At no time will GeneDx share any patient personally identifiable information. GeneDx may share contact information for providers listed on the Test Requisition Form with third parties.

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## PATIENT RECONTACT FOR RESEARCH PARTICIPATION

GeneDx may collaborate with other scientists, researchers and drug developers to advance knowledge of genetic diseases and to develop new treatments. If there are opportunities to participate in research relevant to the disorder in (my/my child's) family, GeneDx may contact my healthcare provider for research purposes, such as the development of new testing, drug development, or other treatment modalities. In some situations, such as if my healthcare provider is not available, I may be contacted directly. I can opt out of being contacted directly regarding any of the above activities by having my healthcare provider check the box for Patient Research Opt-Out. Any research that results in medical advances, including new products, tests or discoveries, may have potential commercial value and may be developed and owned by GeneDx or the collaborating researchers. If any individuals or corporations benefit financially from these studies, no compensation will be provided to (me/my child) or to (my/my child's) heirs.

## EXOME/GENOME SEQUENCING SECONDARY FINDINGS

- Applicable only for full exome sequencing and genome sequencing tests
- Does not pertain to *Xpanded*<sup>®</sup> or Slice tests

As many different genes and conditions are analyzed in an exome or genome sequencing test, these tests may reveal some findings not directly related to the reason for ordering the test. Such findings are called "incidental" or "secondary" and can provide information that was not anticipated.

Secondary findings are variants, identified by an exome or genome sequencing test, in genes that are unrelated to the individual's reported clinical features.

The American College of Medical Genetics and Genomics (ACMG) has recommended that secondary findings identified in a specific subset of medically actionable genes associated with various inherited disorders be reported for all probands undergoing exome or genome sequencing. Please refer to the latest version of the ACMG recommendations for reporting of secondary findings in clinical exome and genome sequencing for complete details of the genes and associated genetic disorders. Reportable secondary findings will be confirmed by an alternate test method when needed.

### WHAT WILL BE REPORTED FOR THE PATIENT?

All pathogenic and likely pathogenic variants associated with specific genotypes identified in the genes (for which a minimum of 10X coverage was achieved by exome sequencing or a minimum of 15X coverage was achieved by genome sequencing), as recommended by the ACMG.

### WHAT WILL BE REPORTED FOR RELATIVES?

The presence or absence of any secondary finding(s) reported for the proband will be provided for all relatives analyzed by an exome or genome sequencing test.

### LIMITATIONS

Pathogenic and/or likely pathogenic variants may be present in a portion of the gene not covered by this test and therefore are not reported. The absence of reportable secondary findings for any particular gene does not mean there are no pathogenic and/or likely pathogenic variants in that gene. Pathogenic variants and/or likely pathogenic variants that may be present in a relative, but are not present in the proband, will not be identified nor reported. Only changes at the sequence level will be reported in the secondary findings report. Larger deletions/duplications, abnormal methylation, triplet repeat or other expansion variants, or other variants not routinely identified by clinical exome and genome sequencing will not be reported.

## FINANCIAL AGREEMENT AND GUARANTEE

For insurance billing, I understand and authorize GeneDx to bill my health insurance plan on my behalf, to release any information required for billing, and to be my designated representative for purposes of appealing any denial of benefits. I irrevocably assign to and direct that payment be made directly to GeneDx.

I understand that my out-of-pocket costs may be different than the estimated amount indicated to me by GeneDx as part of a benefit investigation. I agree to be financially responsible for any and all amounts as indicated on the explanation of benefits issued by my health insurance plan. If my insurance provider sends a payment directly to me for services performed by GeneDx on my behalf, I agree to endorse the insurance check and forward it to GeneDx within 30 days of receipt as payment towards GeneDx's claim for services rendered.

By signing this form, I acknowledge as the patient or relative being tested that I have read or have had read to me the GeneDx Informed Consent document, and understand the information regarding molecular genetics testing. I have had the opportunity to ask questions about the testing, the procedure, the risks, and the alternatives. By signing this form, I authorize GeneDx to perform genetic testing as ordered. I understand that, for tests that evaluate data from multiple family members concurrently, test results from these family members may be included in a single comprehensive report that will be made available to all tested individuals and their healthcare providers.

- Secondary Findings Opt-out.** Check this box if you do not wish to receive ACMG secondary findings (Full Exome Sequencing and Genome Sequencing Tests ONLY; not for *Xpanded*<sup>®</sup> or Slice tests).
- New York Retention Opt-in.** By checking this box, I confirm that I am a New York State resident, and I give permission for GeneDx to retain any remaining sample longer than 60 days after the completion of testing, and to be used as a de-identified sample for test development and improvement, internal validation, quality assurance, and training purposes. Otherwise, New York law requires GeneDx to destroy my sample within 60 days, and it cannot be used for test development studies.
- Patient Research Opt-out.** Check this box if you wish to opt out of being contacted for research studies.
- Health Information Exchange Opt-in.** Check this box if you reside in CA, FL, MA, NV, NY, RI, and VT and wish to opt-in to my health information to be shared for Health Information Exchange participation.
- Health Information Exchange Opt-out.** Check this box if you reside in any other US state or territory and wish to opt-out of participation in Health Information Exchange.

<b>Signature of Patient/Legal Guardian (required)</b>		<b>Date</b>
<b>Signature of Relative A/Legal Guardian</b>	<b>Relative A Relationship to Patient</b>	<b>Date</b>
<b>Signature of Relative B/Legal Guardian</b>	<b>Relative B Relationship to Patient</b>	<b>Date</b>