

# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM

GeneDx

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

## PATIENT INFORMATION

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

## SAMPLE INFORMATION

Date Sample Collected (mm/dd/yy)	Medical Record #
<input type="radio"/> Blood <input type="radio"/> Buccal Swab <input type="radio"/> Other (specify source): _____	
<input type="checkbox"/> Treatment-related RUSH (optional) Reason: <input type="radio"/> Transplantation <input type="radio"/> Pregnancy <input type="radio"/> Surgery <input type="radio"/> Other: _____	
Patient has had a blood transfusion <input type="radio"/> Yes <input type="radio"/> No Date of Last Transfusion: _____ (2-4 weeks of wait time is required for some testing)	
Patient has had an allogeneic bone marrow transplant <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.	
Patient has a personal history of a hematologic malignancy or disease <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.

Signature of Ordering Provider	Date
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## ACCOUNT INFORMATION

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

## ICD-10-CM CODES

ICD-10-CM Codes to support all test(s) ordered	
Clinical Diagnosis _____	Age of Onset _____

## PAYMENT OPTIONS (Select One)

<input type="radio"/> <b>INSURANCE BILL</b>	Patient Status Is this individual currently a Hospital Inpatient? <input type="radio"/> Yes <input type="radio"/> No		
Select all that apply	<input type="checkbox"/> Commercial <input type="checkbox"/> Medicaid <input type="checkbox"/> Medicare <input type="checkbox"/> Tricare <input type="checkbox"/> CHAMPVA		
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 _____	
FOR ALL INSURANCE PROVIDE FRONT AND BACK COPY OF CARD(S)		Referral/Prior Authorization # (please attach) _____	
		Secondary Insurance Type: _____	
		Insurance Carrier _____	Insurance ID # _____
		Subscriber Name _____	Date of Birth _____
		Relationship to Insured <input type="radio"/> Self <input type="radio"/> Spouse <input type="radio"/> Child <input type="radio"/> Other: _____	
<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.		
Authorized Patient/Guardian Signature _____			
<input type="radio"/> <b>INSTITUTIONAL BILL</b>	GeneDx Account # _____		Place Sticker/Stamp Here
	Hospital/Lab Name _____		

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<b>CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED)</b>		
Is this person affected? <input type="radio"/> Yes <input type="radio"/> No      Clinical diagnosis: _____		
Reason for testing: <input type="checkbox"/> Diagnosis <input type="checkbox"/> Presymptomatic diagnosis <input type="checkbox"/> Carrier/Familial Variant Testing		
Please check all that apply. This is not a substitute for submitting clinical records.		
<b>Pre/Perinatal History</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cystic hygroma</li> <li><input type="checkbox"/> Decreased body weight</li> <li><input type="checkbox"/> Diaphragmatic hernia</li> <li><input type="checkbox"/> Growth delay</li> <li><input type="checkbox"/> Increased body weight</li> <li><input type="checkbox"/> Intrauterine growth retardation</li> <li><input type="checkbox"/> Neural tube defect</li> <li><input type="checkbox"/> Nonimmune hydrops fetalis</li> <li><input type="checkbox"/> Oligohydramnios</li> <li><input type="checkbox"/> Polyhydramnios</li> <li><input type="checkbox"/> Prematurity GA: _____</li> <li><input type="checkbox"/> Prolonged neonatal jaundice</li> </ul>		
<b>Structural Brain Abnormalities</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormality of basal ganglia</li> <li><input type="checkbox"/> Abnormality of brainstem</li> <li><input type="checkbox"/> Abnormality of periventricular white matter</li> <li><input type="checkbox"/> Abnormality of the corpus callosum</li> <li><input type="checkbox"/> Aplasia/hypoplasia of cerebellar vermis</li> <li><input type="checkbox"/> Aplasia/hypoplasia of cerebellum</li> <li><input type="checkbox"/> Brain atrophy</li> <li><input type="checkbox"/> Cerebellar atrophy</li> <li><input type="checkbox"/> Cerebellar hypoplasia (Pontocerebellar hypoplasia)</li> <li><input type="checkbox"/> CNS hypomyelination</li> <li><input type="checkbox"/> Cortical dysplasia</li> <li><input type="checkbox"/> Holoprosencephaly</li> <li><input type="checkbox"/> Hydrocephalus</li> <li><input type="checkbox"/> Leukodystrophy</li> <li><input type="checkbox"/> Lissencephaly</li> <li><input type="checkbox"/> Pachygyria</li> <li><input type="checkbox"/> Polymicrogyria</li> <li><input type="checkbox"/> Pontocerebellar atrophy</li> <li><input type="checkbox"/> Ventriculomegaly</li> </ul>		
<b>Developmental/Behavioral Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormal aggressive, impulsive or violent behavior</li> <li><input type="checkbox"/> Abnormal social behavior</li> <li><input type="checkbox"/> Absent speech</li> <li><input type="checkbox"/> Attention deficit hyperactivity disorder</li> <li><input type="checkbox"/> Autistic behavior</li> <li><input type="checkbox"/> Clumsiness</li> <li><input type="checkbox"/> Cognitive impairment</li> <li><input type="checkbox"/> Delayed fine motor development</li> <li><input type="checkbox"/> Delayed gross motor development</li> <li><input type="checkbox"/> Delayed speech &amp; language development</li> <li><input type="checkbox"/> Developmental regression</li> <li><input type="checkbox"/> Dysarthria</li> <li><input type="checkbox"/> Frequent falls</li> <li><input type="checkbox"/> Gait disturbance</li> <li><input type="checkbox"/> Global developmental delay</li> <li><input type="checkbox"/> Incoordination           <ul style="list-style-type: none"> <li>Intellectual disability</li> <li>Memory impairment</li> <li>Sleep disturbance</li> <li>Specific learning disability</li> <li>Speech articulation difficulties</li> <li>Stereotypy</li> </ul> </li> </ul>		
<b>Neurological Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormality of nervous system</li> <li><input type="checkbox"/> Ataxia</li> <li><input type="checkbox"/> Cerebral palsy</li> <li><input type="checkbox"/> Cortical visual impairment</li> <li><input type="checkbox"/> Dysarthria</li> <li><input type="checkbox"/> Dysphasia</li> <li><input type="checkbox"/> Dystonia</li> <li><input type="checkbox"/> Encephalopathy</li> <li><input type="checkbox"/> Epileptic encephalopathy</li> <li><input type="checkbox"/> Generalized seizures</li> <li><input type="checkbox"/> Headaches</li> <li><input type="checkbox"/> Hyperreflexia</li> <li><input type="checkbox"/> Infantile spasms</li> <li><input type="checkbox"/> Limb hypertonia</li> <li><input type="checkbox"/> Myoclonus</li> <li><input type="checkbox"/> Parkinsonism</li> <li><input type="checkbox"/> Peripheral neuropathy</li> <li><input type="checkbox"/> Seizures</li> <li><input type="checkbox"/> Sensory neuropathy</li> <li><input type="checkbox"/> Spasticity</li> <li><input type="checkbox"/> Stroke-like episode</li> <li><input type="checkbox"/> Syncope</li> <li><input type="checkbox"/> Tremors</li> <li><input type="checkbox"/> Vertigo</li> </ul>		
<b>Craniofacial/Dysmorphism</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormal facial shape (Dysmorphic features)</li> <li><input type="checkbox"/> Abnormality of philtrum</li> <li><input type="checkbox"/> Anteverted nares</li> <li><input type="checkbox"/> Brachycephaly</li> <li><input type="checkbox"/> Broad forehead</li> <li><input type="checkbox"/> Bulbous nose</li> <li><input type="checkbox"/> Cleft lip</li> <li><input type="checkbox"/> Cleft palate</li> <li><input type="checkbox"/> Coarse facial features</li> <li><input type="checkbox"/> Craniosynostosis</li> <li><input type="checkbox"/> Deeply set eye</li> <li><input type="checkbox"/> Dental crowding</li> <li><input type="checkbox"/> Depressed nasal bridge</li> <li><input type="checkbox"/> Epicanthus</li> <li><input type="checkbox"/> Facial asymmetry</li> <li><input type="checkbox"/> Frontal bossing</li> <li><input type="checkbox"/> High palate</li> <li><input type="checkbox"/> Hypertelorism</li> <li><input type="checkbox"/> Hypotelorism</li> <li><input type="checkbox"/> Long face</li> <li><input type="checkbox"/> Low set ears</li> <li><input type="checkbox"/> Macrocephaly</li> <li><input type="checkbox"/> Microcephaly</li> <li><input type="checkbox"/> Micrognathia</li> <li><input type="checkbox"/> Midface retrusion</li> <li><input type="checkbox"/> Prominent nasal bridge</li> <li><input type="checkbox"/> Retrognathia</li> <li><input type="checkbox"/> Synophrys</li> <li><input type="checkbox"/> Wide nasal bridge</li> <li><input type="checkbox"/> Wide spaced teeth</li> </ul>		
<b>Eye Defects/Vision</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aniridia</li> <li><input type="checkbox"/> Anophthalmia</li> <li><input type="checkbox"/> Astigmatism</li> <li><input type="checkbox"/> Cataracts</li> <li><input type="checkbox"/> Coloboma</li> <li><input type="checkbox"/> Corneal opacity</li> <li><input type="checkbox"/> Ectopia lentis</li> <li><input type="checkbox"/> Esotropia</li> <li><input type="checkbox"/> Exotropia</li> <li><input type="checkbox"/> External ophthalmoplegia</li> <li><input type="checkbox"/> Microphthalmia</li> <li><input type="checkbox"/> Myopia</li> <li><input type="checkbox"/> Nystagmus</li> <li><input type="checkbox"/> Optic atrophy</li> <li><input type="checkbox"/> Optic neuropathy</li> <li><input type="checkbox"/> Ptosis</li> <li>Retinitis pigmentosa</li> <li>Strabismus</li> <li>Visual impairment</li> </ul>		
<b>Hearing Impairment</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Aminoglycoside-induced hearing loss</li> <li><input type="checkbox"/> Conductive hearing impairment/bilateral</li> <li><input type="checkbox"/> Hearing impairment</li> <li><input type="checkbox"/> Sensorineural hearing impairment/bilateral</li> </ul>		
<b>Cardiac Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormal echocardiogram</li> <li><input type="checkbox"/> Abnormal heart morphology</li> <li><input type="checkbox"/> Abnormal heart valve morphology</li> <li><input type="checkbox"/> Arrhythmia</li> <li><input type="checkbox"/> Atrial septal defect</li> <li><input type="checkbox"/> Cardiomegaly</li> <li><input type="checkbox"/> Cardiomyopathy</li> <li><input type="checkbox"/> Dilated cardiomyopathy</li> <li><input type="checkbox"/> Hypertension</li> <li><input type="checkbox"/> Hypertrophic cardiomyopathy</li> <li><input type="checkbox"/> Palpitations</li> <li><input type="checkbox"/> Tachycardia</li> <li><input type="checkbox"/> Ventricular septal defect</li> </ul>		
<b>Respiratory Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Apnea</li> <li><input type="checkbox"/> Aspiration</li> <li><input type="checkbox"/> Asthma</li> <li><input type="checkbox"/> Hyperventilation</li> <li><input type="checkbox"/> Hypoventilation</li> <li><input type="checkbox"/> Recurrent upper respiratory infections</li> <li><input type="checkbox"/> Respiratory distress</li> <li><input type="checkbox"/> Respiratory insufficiency</li> </ul>		
<b>Gastrointestinal Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Constipation</li> <li><input type="checkbox"/> Diarrhea</li> <li><input type="checkbox"/> Exocrine pancreatic insufficiency</li> <li><input type="checkbox"/> Failure to thrive</li> <li><input type="checkbox"/> Feeding difficulties</li> <li><input type="checkbox"/> Gastroesophageal reflux</li> <li><input type="checkbox"/> Gastrointestinal dysmotility</li> </ul>		

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Newborn Screen result: _____</li> <li><input type="checkbox"/> Abnormality of mitochondrial metabolism</li> <li><input type="checkbox"/> Cytochrome C oxidase-negative muscle fibers</li> <li><input type="checkbox"/> Decreased activity of mitochondrial ATP synthase complex</li> <li><input type="checkbox"/> Decreased activity of mitochondrial respiratory complexes</li> <li><input type="checkbox"/> Decreased activity of the pyruvate dehydrogenase complex</li> <li><input type="checkbox"/> Depletion of mitochondrial DNA in liver</li> <li><input type="checkbox"/> Depletion of mitochondrial DNA in muscle tissue</li> <li><input type="checkbox"/> Elevated CPK: _____</li> <li><input type="checkbox"/> Elevated hepatic transaminases</li> <li><input type="checkbox"/> Hyperammonemia</li> <li><input type="checkbox"/> Hypoammonemia</li> <li><input type="checkbox"/> Hypoglycemia</li> <li><input type="checkbox"/> Increased serum pyruvate</li> <li><input type="checkbox"/> Lactic acidosis</li> <li><input 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skin)</li> <li><input type="checkbox"/> Xanthomatosis</li> </ul>		
<b>Gastrointestinal Findings (continued)</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gastroparesis</li> <li><input type="checkbox"/> Hepatomegaly</li> <li><input type="checkbox"/> Inflammatory bowel disease</li> <li><input type="checkbox"/> Laryngomalacia</li> <li><input type="checkbox"/> Nausea</li> <li><input type="checkbox"/> Pancreatitis</li> <li><input type="checkbox"/> Pyloric stenosis</li> <li><input type="checkbox"/> Splenomegaly</li> <li><input type="checkbox"/> Tracheoesophageal fistula</li> <li><input type="checkbox"/> Vomiting</li> </ul>	<b>Genitourinary Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Ambiguous genitalia</li> <li><input type="checkbox"/> Cryptorchidism</li> <li><input type="checkbox"/> Glomerulosclerosis</li> <li><input type="checkbox"/> Hydronephrosis</li> <li><input type="checkbox"/> Hypospadias</li> <li><input type="checkbox"/> Inguinal hernia</li> <li><input type="checkbox"/> Polycystic kidney disease</li> <li><input type="checkbox"/> Renal agenesis</li> <li><input type="checkbox"/> Renal insufficiency</li> <li><input type="checkbox"/> Renal tubular acidosis</li> <li><input type="checkbox"/> Renal tubular dysfunction</li> <li><input type="checkbox"/> Urinary incontinence</li> </ul>	<b>Endocrine Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Diabetes Insipidus</li> <li><input type="checkbox"/> Diabetes Mellitus</li> <li><input type="checkbox"/> Hyperthyroidism</li> <li><input type="checkbox"/> Hypothyroidism</li> </ul>															
<b>Vascular System</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Stroke</li> <li><input type="checkbox"/> Thromboembolism</li> </ul>																	
<b>Musculoskeletal Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnormal connective tissue</li> <li><input type="checkbox"/> Abnormal form of the vertebral bodies</li> <li><input type="checkbox"/> Abnormality of joint mobility</li> <li><input type="checkbox"/> Arthrogryposis</li> <li><input type="checkbox"/> Bruising susceptibility</li> <li><input type="checkbox"/> Craniosynostosis</li> <li><input type="checkbox"/> Decreased muscle mass</li> <li><input type="checkbox"/> Dolichocephaly</li> <li><input type="checkbox"/> Dysostosis multiplex</li> <li><input type="checkbox"/> Elevated serum creatine phosphokinase</li> <li><input type="checkbox"/> Exercise intolerance</li> <li><input type="checkbox"/> Fasciculations</li> <li><input type="checkbox"/> Fatigue</li> <li><input type="checkbox"/> Flexion contracture</li> <li><input type="checkbox"/> Hemihypertrophy</li> <li><input type="checkbox"/> Hypertonia</li> <li><input type="checkbox"/> Hypotonia</li> <li><input type="checkbox"/> Joint hypermobility</li> <li><input type="checkbox"/> Muscle cramps</li> <li><input type="checkbox"/> Muscle weakness</li> <li><input type="checkbox"/> Myalgia</li> <li><input type="checkbox"/> Myopathy</li> <li><input type="checkbox"/> Pectus excavatum</li> <li><input type="checkbox"/> Pes planus</li> <li><input type="checkbox"/> Ptosis</li> <li><input type="checkbox"/> Rhabdomyolysis</li> <li><input type="checkbox"/> Scoliosis</li> <li><input type="checkbox"/> Short stature</li> <li><input type="checkbox"/> Skeletal dysplasia</li> </ul>																	
<b>Metabolic Issues/Mito (Attached relevant lab reports/values)</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Abnl Plasma AA result: _____</li> <li><input type="checkbox"/> Abnl Urine OA result: _____</li> <li><input type="checkbox"/> Abnormal activity of mitochondrial respiratory chain</li> <li><input type="checkbox"/> Abnormal mitochondria in muscle tissue</li> <li><input type="checkbox"/> Abnormal Newborn Screen result: _____</li> <li><input type="checkbox"/> Abnormality of mitochondrial metabolism</li> <li><input type="checkbox"/> Cytochrome C oxidase-negative muscle fibers</li> <li><input type="checkbox"/> Decreased activity of mitochondrial ATP synthase complex</li> <li><input type="checkbox"/> Decreased activity of mitochondrial respiratory complexes</li> <li><input type="checkbox"/> Decreased activity of the pyruvate dehydrogenase complex</li> <li><input type="checkbox"/> Depletion of mitochondrial DNA in liver</li> <li><input type="checkbox"/> Depletion of mitochondrial DNA in muscle tissue</li> <li><input type="checkbox"/> Elevated CPK: _____</li> <li><input type="checkbox"/> Elevated hepatic transaminases</li> <li><input type="checkbox"/> Hyperammonemia</li> <li><input type="checkbox"/> Hypoammonemia</li> <li><input type="checkbox"/> Hypoglycemia</li> <li><input type="checkbox"/> Increased serum pyruvate</li> <li><input type="checkbox"/> Lactic acidosis</li> <li><input type="checkbox"/> Multiple mitochondrial DNA deletions</li> <li><input type="checkbox"/> Subsarcolemmal accumulations of abnormally shaped mitochondria</li> <li><input type="checkbox"/> Vitamin D deficiency</li> </ul>																	
<b>Skin/Hair Findings</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Alopecia</li> <li><input type="checkbox"/> Angiokeratoma</li> <li><input type="checkbox"/> Brittle hair</li> <li><input type="checkbox"/> Café-au-lait macules</li> <li><input type="checkbox"/> Coarse hair</li> <li><input type="checkbox"/> Dry skin</li> <li><input type="checkbox"/> Eczema</li> <li><input type="checkbox"/> Hemangiomas</li> <li><input type="checkbox"/> Hyperextensible skin</li> <li><input type="checkbox"/> Hyperpigmentation of the skin</li> <li><input type="checkbox"/> Hypertrichosis</li> <li><input type="checkbox"/> Hypopigmentation of the skin</li> <li><input type="checkbox"/> Ichthyosis</li> <li><input type="checkbox"/> Skin rash</li> <li><input type="checkbox"/> Sparse hair</li> <li><input type="checkbox"/> Velvety skin (Soft skin)</li> <li><input type="checkbox"/> Xanthomatosis</li> </ul>																	

# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM

GeneDx

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: \_\_\_\_\_

‡ 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#)
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Gene	Coding DNA (c./m.)	Amino Acid (p.)	Transcript (NM#)
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## COPY NUMBER VARIANT

Number of Variants: \_\_\_\_\_

Gene(s)	Exon #	Coordinates	Genome Build
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Gene(s)	Exon #	Coordinates	Genome Build
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# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM

GeneDx®

First Name	Last Name	Date of Birth
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## TEST MENU

TEST CODE	TEST NAME	TEST CODE	TEST NAME
<b>MITOCHONDRIAL DISORDERS GENETIC TESTING</b>			
<input type="checkbox"/> 615	Combined Mito Genome Plus Mito Focused Nuclear Gene Panel	<input type="checkbox"/> 554	Full sequence analysis and deletion testing of the mitochondrial genome
<input type="checkbox"/> TH12	Leber Hereditary Optic Neuropathy (LHON) Panel		
<b>METABOLIC DISORDERS GENETIC TESTING</b>			
<input type="checkbox"/> J976	Creatine Deficiency Syndromes Panel	<input type="checkbox"/> TG90	Primary Hyperoxaluria Panel
<input type="checkbox"/> T012	Metabolic Myopathy Panel		
<b>INBORN ERRORS OF METABOLISM SINGLE GENE TESTS</b> (The following tests include sequencing and deletion/duplication testing unless otherwise noted)			
<input type="checkbox"/> 564	Canavan disease (ASPA)	<input type="checkbox"/> T387	Mucopolysaccharidosis type II (Hunter syndrome) ( <i>IDS</i> sequencing, del/dup recombination analysis)
<input type="checkbox"/> 349E	Galactosemia / Galactosyltransferase deficiency (GALT)	<input type="checkbox"/> 273	Phenylalanine hydroxylase (PAH)
<input type="checkbox"/> TG94	Gaucher disease (GBA sequencing only)	<input type="checkbox"/> 365	Primary/systemic carnitine deficiency ( <i>SLC22A5</i> )
<input type="checkbox"/> TH08	Glycogen storage disease type II (Pompe disease) (GAA)	<input type="checkbox"/> 270	Very long chain acyl-CoA dehydrogenase (VLCAD) deficiency (ACADVL)
<input type="checkbox"/> 2682	Medium chain acyl-CoA dehydrogenase (MCAD) deficiency (ACADM)	<input type="checkbox"/> TG92	Wilson disease (ATP7B)
<input type="checkbox"/> 3975	X-linked adrenoleukodystrophy (ABCD1)		
<b>CUSTOM DEL/DUP TESTING</b>			
<input type="checkbox"/> 906	Deletion/Duplication Analysis of ONE Nuclear Gene	<input type="checkbox"/> 703	Deletion/Duplication Analysis of 2-20 Nuclear Genes
Write-in Desired Gene(s) to be Tested: _____			
<b>WRITE-IN TEST SELECTION</b>			
<input type="checkbox"/> Test Code: _____ Test Name: _____			

## 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](http://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.

First Name	Last Name	Date of Birth
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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*® 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) I acknowledge that I have read or have had read to me the GeneDx Informed Consent document, and understand the information regarding genetic testing; (ii) I have had the opportunity to ask questions about the testing, the procedure, the risks, and the alternatives; (iii) I authorize GeneDx to perform genetic testing as ordered; (iv) 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; (v) if at any time I or my provider provide an email address or mobile phone number at which I may be contacted, I consent to receiving email or text messages from GeneDx; and (vi) I understand that this consent applies to all future communications unless I request a change in writing.

- 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*® 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.

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