# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM



Age of Onset

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: Male Female Patient Karyotype (if known): Gender Identification (optional): Email	Date of Birth (mm/dd,	/yy)			
Address					
City	State	Zip Code			
Phone (mobile preferred)	Is this patient decease Deceased Date:	d? OYes ONo			
SAMPLEIN	IFORMATION				
Date Sample Collected (mm/dd/yy)	Medical Record #				
Blood Buccal Swab Other (specify	rsource):				
☐ <b>Treatment-related RUSH</b> (optional)  Reason: ☐ Transplantation ☐ Pregnancy	OSurgery Oother:				
Patient has had a blood transfusion () Yes		nsfusion:			
(2-4 weeks of wait time is required for some	testing)				
O Yes (specify diagnosis)  If yes, please call the lab to discuss with a gen	etic counselor the most ap	O <b>No</b> opropriate sample type.			
ORDERING PROV	IDER ATTESTATIO	N			
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 York State resident who gives permissio longer than 60 days after testing has be	n for GeneDx to retain an				
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. other US state or territory and wishes to Exchange.					
Signature of Ordering Provider		Date			

ACCC	OUNT INFORMATION	ON
GeneDx Account Number	Account Name	e
Phone	Fax	
Address		
City	State	Zip Code
Ordering Provider Name		Role/Title
NPI	Phone Number	r
Send Report Via: ☐ Fax ☐ Email Fax #/Email:	Portal	
Additional Ordering Provider Name	(optional)	Role/Title
NPI		
Send Report Via: Fax Email Fax #/Email:	Portal	
SEND ADDITIONAL REPORT COPIES TO	O (optional)	
Provider Name	GeneDx Acct#	
Fax #/Email:	-	
ICI	D-10-CM CODES	

PAYMENT OPTIONS (Select One)					
O INSURANCE BILL Select all that apply Commercial Medicaid	Patient Status  OHospital outpatient OHospital inpatient; Date of Discharge: ONot a hospital patient  Name of Insurance Carrier  Insurance ID#:				
☐ Medicare ☐ Tricare	Relationship to Insured				
☐ CHAMPVA	OSelf OSpouse	Child Oothe	r:		
FOR ALL INSURANCE	Policy Holder's Name		Policy Holder's Date of Birth		
AND BACK COPY OF CARD(S)	Referral/Prior Authorization # (please attach)		Hold test for cost estimate and contact patient if estimate is >\$250 (commercial insurance only)		
	Secondary Insurance Type:				
	Insurance Carrier	Insurance ID #	Subscriber Name	Date of Birth	
	Relationship to Insured OSelf OSpouse OChild OOther:				
O PATIENT BILL	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 se				
Authorized Patient/Guardian Signature					
O INSTITUTIONAL BILL	GeneDx Account #				
	Hospital/Lab Name Place Stic		- Place Sticker/St	/Stamp Here	

Clinical Diagnosis



MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM First Name Last Name Date of Birth CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED) Is this person affected? O Yes O 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. **Pre/Perinatal History Neurological Findings Eye Defects/Vision** ☐ Cystic hygroma ☐ Abnormality of nervous system □ Aniridia ☐ Decreased body weight □ Anophthalmia □ Ataxia □ Diaphragmatic hernia □ Cerebral palsy ☐ Astigmatism ☐ Growth delay ☐ Cortical visual impairment □ Cataracts ☐ Increased body weight □ Dysarthria □ Coloboma ☐ Intrauterine growth retardation □ Dysphasia ☐ Corneal opacity ☐ Neural tube defect □ Dystonia ☐ Ectopia lentis ☐ Nonimmune hydrops fetalis □ Encephalopathy □ Esotropia ☐ Epileptic encephalopathy □ Exotropia □ Oligohydramnios ☐ Polyhydramnios ☐ Generalized seizures ☐ External ophthalmoplegia □ Headaches ☐ Microphthalmia ☐ Prematurity GA: ☐ Prolonged neonatal jaundice ☐ Hyperreflexia □ Myopia ☐ Infantile spasms □Nystagmus □ Limb hypertonia ☐ Optic atrophy **Structural Brain Abnormalies** ☐ Myoclonus ☐ Optic neuropathy ☐ Abnormality of basal ganglia □ Parkinsonism □ Ptosis ☐ Abnormality of brainstem ☐ Peripheral neuropathy Retinitis pigmentosa ☐ Abnormality of periventricular white matter □ Seizures Strabismus ☐ Abnormality of the corpus callosum ☐ Sensory neuropathy Visual impairment ☐ Aplasia/hypoplasia of cerebellar vermis □ Spasticity ☐ Aplasia/hypoplasia of cerebellum **Hearing Impairment** ☐ Stroke-like episode ☐ Brain atrophy ☐ Aminoglycoside-induced hearing loss □ Syncope ☐ Cerebellar atrophy □ Tremors ☐ Conductive hearing impairment/bilateral ☐ Cerebellar hypoplasia (Pontocerebellar □ Vertigo ☐ Hearing impairment hypoplasia) ☐ Sensorineural hearing impairment/bilateral ☐ CNS hypomyelination Craniofacial/Dysmorphism ☐ Cortical dysplasia ☐ Abnormal facial shape (Dysmorphic **Cardiac Findings** □ Holoprosencephaly features) ☐ Abnormal echocardiogram ☐ Hydrocephalus ☐ Abnormality of philtrum ☐ Abnormal heart morphology □ Leukodystrophy ☐ Anteverted nares ☐ Abnormal heart valve morphology Lissencephaly □ Brachycephaly □ Arrhythmia □ Pachygyria ☐ Broad forehead ☐ Atrial septal defect □ Polymicrogyria ☐ Bulbous nose □ Cardiomegaly ☐ Pontocerebellar atrophy ☐ Cleft lip □ Cardiomyopathy □ Ventriculomegaly ☐ Cleft palate ☐ Dilated cardiomyopathy ☐ Coarse facial features ☐ Hypertension □ Craniosynostosis ☐ Hypertrophic cardiomyopathy **Developmental/Behavioral Findings** ☐ Deeply set eye □ Palpitations ☐ Abnormal aggressive, impulsive or violent Dental crowding □ Tachycardia □ behavior □ Depressed nasal bridge □ Ventricular septal defect ☐ Abnormal social behavior ☐ Epicanthus ☐ Absent speech ☐ Facial asymmetry ☐ Attention deficit hyperactivity disorder ☐ Frontal bossing **Respiratory Findings** ☐ Autistic behavior ☐ High palate □ Apnea □ Clumsiness ☐ Hypertelorism ☐ Aspiration ☐ Cognitive impairment ☐ Hypotelorism ☐ Asthma ☐ Delayed fine motor development □ Long face ☐ Hyperventilation ☐ Delayed gross motor development □ Low set ears ☐ Hypoventilation ☐ Delayed speech & language development ☐ Macrocephaly ☐ Recurrent upper respiratory infections □ Developmental regression ☐ Microcephaly ☐ Respiratory distress □ Dysarthria ☐ Micrognathia ☐ Respiratory insufficiency ☐ Frequent falls ☐ Midface retrusion ☐ Gait disturbance ☐ Prominent nasal bridge ☐ Global developmental delay **Gastrointestinal Findings** □ Retrognathia ☐ Incoordination □ Constipation ☐ Synophrys Intellectual disability □ Diarrhea ☐ Wide nasal bridge Memory impairment ☐ Exocrine pancreatic insufficiency ☐ Wide spaced teeth Sleep disturbance ☐ Failure to thrive Specific learning disability

Stereotypy

Speech articulation difficulties

☐ Feeding difficulties

☐ Gastroesophageal reflux

☐ Gastrointestinal dysmotility

# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM



First Name Last Name Date of Birth

CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED)				
Gastrointestinal Findings (continued)  Gastroparesis Hepatomegaly Inflammatory bowel disease Laryngomalacia Nausea Pancreatitis Pyloric stenosis Splenomegaly Tracheoesohageal fistula Vomiting  Musculoskeletal Findings Abnormal connective tissue Abnormal form of the vertebral bodies Abnormality of joint mobility Arthrogryposis Bruising susceptibility Craniosynostosis Decreased muscle mass Dolichocephaly Dysostosis multiplex Elevated serum creatine phosphokinase Exercise intolerance Fasciculations Fatigue Flexion contracture Hemihypertrophy Hypertonia Hypotonia Joint hypermobility Muscle cramps Muscle weakness Myalgia Myopathy Pectus excavatum Pes planus Ptosis	Genitourinary Findings  Ambiguous genitalia Cryptorchidism Glomerulosclerosis Hydronephrosis Hypospadias Inguinal hernia Polycystic kidney disease Renal agenesis Renal tubular acidosis Renal tubular dysfunction Urinary incontinence  Metabolic Issues/Mito (Attached relevant lab	Endocrine Findings   Diabetes Insipidus   Diabetes Mellitus   Hyperthyroidism   Wascular System   Stroke   Thromboembolism    Peports/values     Y chain     Peports   Peports     Stroke   Stro		
□ Rhabdomyolysis □ Scoliosis □ Short stature □ Skeletal dysplasia  Skin/Hair Findings □ Alopecia □ Angiokeratoma □ Brittle hair □ Café-au-lait macules □ Coarse hair □ Dry skin □ Eczema □ Hemangiomas □ Hyperextensible skin □ Hyperpigmentation of the skin □ Hypertrichosis □ Hypopigmentation of the skin □ Ichthyosis □ Skin rash □ Sparse hair □ Velvety skin (Soft skin) □ Xanthomatosis				

# MITOCHONDRIAL & METABOLIC TEST REQUISITION FORM



First Name		ll m-t	Name			Data of Birth	
First Name		Last	INGITIE			Date of Birth	
FAMILY HISTORY							
□ No Known Family History	□P€	edigree Att	ached	☐ Adopted			
Relationship	Maternal	Paternal		Relevant	History		Age at Dx
1	0	0					
2	0	0					
3	0	0					
			PREVIOUS GEN	IETIC TESTING			
Personal or family history of g	nonotic tost	ing ON		ease complete all fiel	ds bolow)		
, ,				•			
Relation to patient (self, sibling, et	.c.), Genetic 1	est(s) ana k	resuit (e.g. positive, nego	ative, etc.). If relative was	tested at Geneby	r, piease also provide their a	ccession #:
If patient or relative(s) were foun	d to have a p	ositive or VU	JS result on prior testing	, please provide details b	pelow.		
Indicate any Variants of Interest‡	via the check	box below.					
Relation (self, sibling, etc.)	Gene	Transcrip	ot# c./p. (SN	V) or exon # (CNV)	Build, c	oordinates (CNV)	Variant of Interest‡?
1							
2							
3							
Required for sequence variants: gene							
Required for CNVs: gene, transcript #,  Abnormal karyotype, FISH, or othe		d, coordinates	•				
Abriornial karyotype, rish, or othe							
+ For cortain tosts ConoDy many bo abl	o to aposifically	, comment un	on the presence or absence	o of proviously identified vari	ant(a) of interest in t	the report Complete variant infe	rmation
‡ For certain tests, GeneDx <b>may</b> be abl must be provided in the table above a not be possible to comment upon the	t the time the te	est order is pla	aced. If you do not complete	the table above and check	off that a previously	identified variant is a variant of i	nterest, 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: O Affected/Symptomatic O 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 #							
Non-GeneDx Test:							
VARIANT INFORMATION (please fill out the below information if family member report is not included)  Number of Variants:							
Gene	Coding	g DNA (c./m.)		Amino Acid (p.)		Transcript (NM#)	
Gene	Coding	g DNA (c./m.)		Amino Acid (p.)		Transcript (NM#)	
COPY NUMBER VARIANT	COPY NUMBER VARIANT  Number of Variants:						
Gene(s)	Exon #	:		Coordinates		Genome Build	
Gene(s)	Exon #	:		Coordinates		Genome Build	



rst Name	Last Name		Date of Birth
	TEST	MENU	
TEST CODE	TEST NAME	TEST CODE	TEST NAME
MITOCHON	DRIAL DISORDERS GENETIC TESTING		
☐ 615	Combined Mito Genome Plus Mito Focused Nuclear Gene Panel	□ 554	Full sequence analysis and deletion testing of the mitochondrial genome
☐ TH12	Leber Hereditary Optic Neuropathy (LHON) Panel		
METABOLIC	DISORDERS GENETIC TESTING		
□ J976	Creatine Deficiency Syndromes Panel	☐ TG90	Primary Hyperoxaluria Panel
☐ T012	Metabolic Myopathy Panel		
INBORN ERF	RORS OF METABOLISM SINGLE GENE TESTS (The following	tests include sec	quencing and deletion/duplication testing unless otherwise noted)
□ 564	Canavan disease (ASPA)	☐ T387	Mucopolysaccharidosis type II (Hunter syndrome) (IDS sequencing, del/dup recombination analysis)
□ 713	Fumarate hydratase deficiency (FH)	□ 273	Phenylalanine hydroxylase ( <i>PAH</i> )
☐ 349E	Galactosemia / Galactosyltransferase deficiency (GALT)	□ 365	Primary/systemic carnitine deficiency (SLC22A5)
☐ TG94	Gaucher disease (GBA sequencing only)	□ 270	Very long chain acyl-CoA dehydrogenase (VLCAD) deficiency (ACADVL)
☐ TH08	Glycogen storage disease type II (Pompe disease) (GAA)	☐ TG92	Wilson disease (ATP7B)
2682	Medium chain acyl-CoA dehydrogenase (MCAD) deficiency (ACADM)	J975	X-linked adrenoleukodystrophy (ABCD1)
CUSTOM DE	EL/DUP TESTING		
□ 906	Deletion/Duplication Analysis of ONE Nuclear Gene	□ 703	Deletion/Duplication Analysis of 2-20 Nuclear Genes
Vrite-in Desire	d Gene(s) to be Tested:		
WRITE-IN T	EST SELECTION		
☐ 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. 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

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?

- 1. <u>Positive</u>: 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.
- 2. <u>Negative</u>: 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.
- 3. <u>Variant of Uncertain Significance (VUS)</u>: 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.
- 4. <u>Unexpected Results (ACMG Secondary Findings)</u>: 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**

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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. 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

# 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.

INFORMED CONSENT



irst Name	Last Name	Date of Birth

#### 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.

#### IMITATIONS

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.

			1			
Signo	ature of Relative B/Legal Guardian	Relative B Relationship to Patient	Date			
Signo	ature of Relative A/Legal Guardian	Relative A Relationship to Patient	Date			
	ature of Patient/Legal Guardian (required)		Date			
	<b>Health Information Exchange Opt-out.</b> Check this box if you reside in any of Exchange.	other US state or territory and wish to opt-out of participo	ition in Health Information			
	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.					
	Patient Research Opt-out. Check this box if you wish to opt out of being contacted for research studies.					
	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.					
	<b>Secondary Findings Opt-out.</b> Check this box if you do not wish to receive A ONLY; not for <i>Xpanded®</i> or Slice tests).	CMG secondary findings (Full Exome Sequencing and Ge	enome Sequencing Tests			
and and fan	signing this form, I acknowledge as the patient or relative being tested that I dunderstand the information regarding molecular genetics testing. I have high the alternatives. By signing this form, I authorize GeneDx to perform genetic nily members concurrently, test results from these family members may be i ividuals and their healthcare providers.	ad the opportunity to ask questions about the testing, the testing as ordered. I understand that, for tests that evalu	e procedure, the risks, uate data from multiple			