

NEUROLOGY TEST REQUISITION FORM

PATIENT INFORMATION		ACCOUNT INFORMATION	
First name _____ Last name _____		Account number _____ Account name _____	
Sex <input type="radio"/> Male <input type="radio"/> Female Gender identification (optional): _____		Phone _____ Fax _____	
Date of birth (mm/dd/yy) _____		Address _____ City _____	
Ancestry <input type="radio"/> White/Caucasian <input type="radio"/> Hispanic <input type="radio"/> Black/African American <input type="radio"/> Native American <input type="radio"/> East Asian <input type="radio"/> South Asian <input type="radio"/> Middle Eastern <input type="radio"/> Ashkenazi Jewish <input type="radio"/> Other: _____		State _____ Zip code _____ Country _____	
Email _____		Ordering provider	
Address _____		Name _____ Role/Title _____	
City _____ State _____ Zip code _____		Phone _____ NPI _____	
Primary phone _____		Email address (for report access) _____	
Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased date: _____		Reporting Preference: <input type="radio"/> Portal <input type="radio"/> Fax <input type="radio"/> Email <input type="radio"/> Care Evolve <small>If unmarked, we will use the account's default preferences or fax to new clients.</small>	
SAMPLE INFORMATION		Additional Reporting Providers <input type="radio"/> Same as ordering provider	
Date sample obtained (mm/dd/yy) _____ Medical record # _____		Name _____ Role/Title _____	
<input type="radio"/> Blood <input type="radio"/> Buccal swab <input type="radio"/> Muscle (~50mg flash frozen; shipped on dry ice) <input type="radio"/> Other: _____ <input type="radio"/> DNA: tissue source _____		Phone _____ NPI _____	
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)		Email address (for report access) _____	
Patient has had an allogeneic bone marrow transplant <input type="radio"/> Yes <input type="radio"/> No Fibroblasts are recommended for patients who had an allogeneic bone marrow transplant. See www.genedx.com/specimen-requirements for details.		Additional clinical or laboratory contact (optional)	
<input type="radio"/> Treatment-Related RUSH Date: _____		Name _____ Email address (for report access) _____	
		SEND ADDITIONAL REPORT COPIES TO	
		Healthcare provider/Acct # _____ Fax #/Email _____	
ICD-10 codes (required): _____		Clinical diagnosis: _____	
		Age at initial presentation: _____	
STATEMENT OF MEDICAL NECESSITY			
By submission of this test requisition and accompanying sample(s), I: (i) authorize and direct GeneDx to perform the testing indicated; (ii) certify that the person listed as the ordering provider is authorized by law to order the test(s) requested; (iii) certify that any custom panel and/or ordered test(s) requested on this test requisition form are reasonable and medically necessary for the diagnosis and/or treatment of a disease, illness, impairment, symptom, syndrome or disorder; (iv) the test results will determine my patient's medical management and treatment decisions of this patient's condition on this date of service; (v) have obtained this patient's and relatives', when applicable, written informed consent to undergo any genetic testing requested; and (vi) that the full and appropriate diagnosis code(s) are indicated to the highest level of specificity..			
Signature of provider (required) _____ Date _____			
PATIENT CONSENT			
By signing this form I acknowledge as the patient that I have read the attached informed consent document and that I authorize GeneDx to perform genetic testing as described. For tests that evaluate data from multiple family members concurrently, such as me and my spouse or partner, results from these family members may be included in a single comprehensive report that will be made available to all tested individuals and their health care providers I have been informed that GeneDx may contact me or my healthcare provider about research opportunities in the future. For the insurance bill, I understand and authorize GeneDx to share information with the designated insurance carrier for reimbursement. I understand that GeneDx will attempt to contact me if my estimated out-of-pocket responsibility will be greater than \$100 per test. If GeneDx is unsuccessful in its attempts to contact me, it will be my responsibility to contact GeneDx to determine and pay the out-of-pocket cost. More information, including the GeneDx Notice of Privacy Policies, is available on GeneDx's website: www.genedx.com			
<input type="radio"/> 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 after 60 days, and it cannot be used for the studies listed above.			
<input type="radio"/> Check this box if you wish to opt out of being contacted for research studies.			
Signature of Patient/Guardian (required) _____ Date _____ Signature of Relative A (required) _____ Date _____ Signature of Relative B (required) _____ Date _____			
PATIENT STATUS – ONE MUST BE CHECKED: <input type="radio"/> Hospital outpatient <input type="radio"/> Hospital inpatient Date of discharge: _____ <input type="radio"/> Not a hospital patient			
PAYMENT OPTIONS			
<input type="radio"/> Insurance Bill		<input type="radio"/> Copy of front and back of insurance card(s) included	
Insurance carrier _____		Referral/Prior authorization number (please attach) _____	
Insurance ID # _____		GeneDx benefit investigation # _____	
Relationship to insured: <input type="radio"/> Self <input type="radio"/> Spouse <input type="radio"/> Child <input type="radio"/> Other _____		Policy holder name _____ Policy holder's date of birth _____	
<input type="radio"/> Patient Bill		<input type="radio"/> Institutional Bill	
Amount _____		GeneDx account # _____ Hospital/Lab name _____	
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.			
<input type="radio"/> GeneDx Affiliate Code: _____			
Place sticker/stamp here			

CLINICAL INFORMATION

Account #	Account Name		
First Name	Last Name	Date of Birth	

CLINICAL INFORMATION (DETAILED MEDICAL RECORDS MUST BE ATTACHED)

Pre/Perinatal History

- ☐ Growth delay
- ☐ Increased body weight
- ☐ Intrauterine growth retardation
- ☐ Prematurity GA: _____

Structural Brain Abnormalities

- ☐ Abnormal myelination
- ☐ Abnormality of basal ganglia
- ☐ Abnormality of brainstem
- ☐ Abnormality of periventricular white matter
- ☐ Abnormality of the corpus callosum
- ☐ Aplasia/hypoplasia of cerebellar vermis
- ☐ Aplasia/hypoplasia of cerebellum
- ☐ Arnold Chiari malformation
- ☐ Brain atrophy
- ☐ Cerebellar atrophy
- ☐ Cerebellar hypoplasia (Pontocerebellar hypoplasia)
- ☐ CNS hypomyelination
- ☐ Cortical dysplasia
- ☐ Cortical tubers
- ☐ Frontotemporal cerebral atrophy
- ☐ Heterotopia (Periventricular nodular heterotopia)
- ☐ Holoprosencephaly
- ☐ Hydrocephalus
- ☐ Leukodystrophy
- ☐ Lissencephaly
- ☐ Molar tooth sign on MRI
- ☐ Pachygyria
- ☐ Polymicrogyria
- ☐ Pontocerebellar atrophy
- ☐ Subcortical band heterotopia
- ☐ Ventriculomegaly

Developmental/Behavioral Findings

- ☐ Abnormal aggressive, impulsive or violent behavior
- ☐ Abnormal social behavior
- ☐ Absent speech
- ☐ Aggressive behavior
- ☐ Anxiety
- ☐ Attention deficit hyperactivity disorder
- ☐ Autistic Behavior
- ☐ Behavioral abnormality
- ☐ Clumsiness
- ☐ Cognitive impairment
- ☐ Delayed fine motor development
- ☐ Delayed gross motor development
- ☐ Delayed speech & language development
- ☐ Depression
- ☐ Developmental regression
- ☐ Dysarthria
- ☐ Frequent falls
- ☐ Gait disturbance
- ☐ Global developmental delay
- ☐ Hyperactivity
- ☐ Incoordination
- ☐ Intellectual disability
- ☐ Memory impairment
- ☐ OCD
- ☐ Sleep disturbance
- ☐ Specific learning disability
- ☐ Speech articulation difficulties
- ☐ Stereotypy

Neurological Findings

- ☐ Abnormality of nervous system
- ☐ Ataxia
- ☐ Cerebral palsy
- ☐ Chorea
- ☐ Cortical Visual Impairment
- ☐ Dementia
- ☐ Dysarthria
- ☐ Dyskinesia
- ☐ Dysphasia
- ☐ Dystonia
- ☐ Encephalopathy
- ☐ Epileptic encephalopathy
- ☐ Familial Or Sporadic Hemiplegic Migraine
- ☐ Febrile Seizures
- ☐ Focal Seizures
- ☐ Frontotemporal dementia
- ☐ Generalized Seizures
- ☐ Headaches
- ☐ Hyperreflexia
- ☐ Infantile Spasms
- ☐ Myoclonus
- ☐ Paresthesia
- ☐ Parkinsonism
- ☐ Peripheral neuropathy
- ☐ Reduced tendon reflexes
- ☐ Seizures
- ☐ Sensory neuropathy
- ☐ Spasticity
- ☐ Status epilepticus
- ☐ Stroke-like episode
- ☐ Tremors
- ☐ Upper motor neuron dysfunction
- ☐ Vocal cord paresis

Craniofacial/Dysmorphism

- ☐ Abnormal facial shape (Dysmorphic features)
- ☐ Macrocephaly
- ☐ Microcephaly

Eye Defects/ Vision

- ☐ Abnormality of Vision
- ☐ Cataracts
- ☐ Nystagmus
- ☐ Optic Atrophy

Hearing Impairment

- ☐ Abnormal Newborn Screen: _____
- ☐ Sensorineural hearing impairment/bilateral

Cardiac Findings

- ☐ Cardiac rhabdomyoma

Respiratory Findings

- ☐ Apnea
- ☐ Hyperventilation
- ☐ Hypoventilation
- ☐ Respiratory distress
- ☐ Respiratory insufficiency

Gastrointestinal Findings

- ☐ Failure to thrive
- ☐ Feeding difficulties

Musculoskeletal Findings

- ☐ Arthrogryposis
- ☐ Decreased muscle mass
- ☐ Exercise intolerance
- ☐ Fasciculations
- ☐ Fatigue
- ☐ Foot dorsiflexor weakness (foot drop)
- ☐ Hypertonia
- ☐ Hypotonia
- ☐ Joint hypermobility
- ☐ Muscle cramps
- ☐ Muscle weakness
- ☐ Myalgia
- ☐ Myopathic facies
- ☐ Myopathy
- ☐ Pain
- ☐ Pes cavus
- ☐ Pes planus
- ☐ Rhabdomyolysis
- ☐ Scoliosis
- ☐ Short stature

Skin/Hair Findings

- ☐ Axillary freckling
- ☐ Café-Au-Lait Macules
- ☐ Hyperpigmentation of the skin
- ☐ Hypopigmentation of the skin

Metabolic Issues/Mito

(Attach relevant lab reports/values)

- ☐ Abnormal Newborn Screen result: _____

- ☐ Elevated CPK: _____

Endocrine Findings

- ☐ Delayed puberty

Vascular System

- ☐ Arteriovenous malformation
- ☐ Stroke

- ☐ Other: _____



Signature of provider (required)

Date

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REASON FOR EXPEDITED TESTING (REQUIRED)

☐ Pregnancy (gestational age _____ weeks) ☐ Transplantation ☐ Other: _____

TARGETED VARIANT TESTING AND SPECIAL SERVICES

Individual to be tested: <input type="radio"/> Affected/Symptomatic <input type="radio"/> Unaffected/Asymptomatic	
<input type="radio"/> Known Familial Variant(s) in a Nuclear Gene	<input type="radio"/> Mosaic Carrier Testing
<input type="radio"/> Known Familial Copy Number variant(s)	<input type="radio"/> Known mtDNA Variant(s) Testing (heteroplasmy detection range 25%-100%)
<input type="radio"/> Confirmation of Variant Identified in Research Lab	<input type="radio"/> Known mtDNA Variant(s) Testing by NGS (heteroplasmy detection range 1.5%-100%) - Test Code 453
	<input type="radio"/> Known mtDNA Variant(s) Testing by NGS - URINE (heteroplasmy detection range 5-100%) - Test Code T822

Proband Name: _____ Relationship to Proband: _____ Proband GeneDx Accession #: _____

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 Variants (CNV(s) require coordinates and genome build or transcript # and exon #)

Number of Variants: _____

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

TESTING OPTIONS

CUSTOM DEL/DUP TESTING

<input type="radio"/> 906	Deletion/Duplication Analysis of ONE nuclear gene	<input type="radio"/> 703	Deletion/Duplication Analysis of 2-20 nuclear genes
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Write in desired gene(s) to be tested: _____

FAMILY MEMBER TESTING (NO SEPARATE REPORT)

<input type="radio"/> J767	Ataxia Xpanded, Family Member Testing	<input type="radio"/> 910	GenomeDx, Parental Testing
<input type="radio"/> 954	Autism/ID Xpanded, Family Member Testing	<input type="radio"/> J854	Leukodystrophy Xpanded, Family Member Testing
<input type="radio"/> T997	Cerebral Palsy Xpanded, Family Member Testing	<input type="radio"/> J513	Microcephaly Xpanded, Family Member Testing
<input type="radio"/> 923	EpiXpanded, Family Member Testing	<input type="radio"/> J820	MitoXpanded, Family Member Testing

Mother: First Name: _____ Last Name: _____ DOB: _____	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic	<input type="radio"/> Not Available <input type="radio"/> To be sent later**
Father: First Name: _____ Last Name: _____ DOB: _____	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic	<input type="radio"/> Not Available <input type="radio"/> To be sent later**
Other: First Name: _____ Last Name: _____ DOB: _____	<input type="radio"/> Asymptomatic <input type="radio"/> Symptomatic	<input type="radio"/> Not Available <input type="radio"/> To be sent later**

Relationship to Proband: _____

>> See next page for proband test selection

**** ADDITIONAL SAMPLES MUST BE RECEIVED WITHIN 3 WEEKS**

WRITE-IN TEST SELECTION

<input type="radio"/> Test Code: _____	Test Name: _____
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HISTORY

FAMILY HISTORY

☐ No Known Family History ☐ Pedigree Attached ☐ Adopted

RELATIONSHIP	MATERNAL	PATERNAL	RELEVANT HISTORY	AGE AT DX
_____	<input type="radio"/>	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	<input type="radio"/>	_____	_____

TESTING HISTORY

☐ Test report included (recommended)

Other relevant results (clinical, laboratory/biochemical or research): _____

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TEST MENU

NEURODEVELOPMENTAL DISORDERS AND EPILEPSY

<input type="radio"/> 522	Fragile X syndrome (<i>FMR1</i> repeat analysis)	<input type="radio"/> 546	Angelman syndrome (<i>UBE3A</i> seq & del/dup)
<input type="radio"/> 910	Chromosomal Microarray (GenomeDx)	<input type="radio"/> 523	Comprehensive Epilepsy Panel (seq & del/dup of 127 genes)
<input type="radio"/> T395	Autism/ID Panel (seq & del/dup of 104 genes)	<input type="radio"/> 814	STAT Epilepsy Panel (seq & del/dup of 26 genes)
Order of Reflex Testing:		<input type="radio"/> 541	Infantile Epilepsy Panel (seq & del/dup of 111 genes)
<input type="radio"/> Concurrent analysis of 522 & 910, if negative activate T395		<input type="radio"/> 542	Childhood-Onset Epilepsy Panel (seq & del/dup of 84 genes)
<input type="radio"/> Start with 522, if negative activate 910, if negative activate T395		<input type="radio"/> 544	Progressive Myoclonic Epilepsy Panel (seq & del/dup of 18 genes)
<input type="radio"/> 952	Autism/ID Xpanded Panel (2300+ genes, trios preferred)	<input type="radio"/> 545	Rest of the Comprehensive Epilepsy Panel (if subpanel negative)
<input type="radio"/> 195	PTEN-related disorders (<i>PTEN</i> seq & del/dup)	<input type="radio"/> 921	EpiXpanded Panel (1300+ genes, trios preferred)
<input type="radio"/> 729	Rett/Angelman Related Disorders Panel (seq & del/dup of 20 genes)	<input type="radio"/> 953	Epilepsy Del/Dup Panel (128 genes) (not a trio based test)
<input type="radio"/> 549	Rett/Atypical Rett syndromes (<i>MECP2</i> seq & del/dup)	<input type="radio"/> T400	Hemiplegic migraine panel (seq & del/dup of 4 genes)
<input type="radio"/> 595	Prader-Willi syndrome methylation-MLPA (UPD, deletion)	<input type="radio"/> 730	Tuberous Sclerosis Panel (<i>TSC1</i> & <i>TSC2</i> seq & del/dup)
<input type="radio"/> 566	Angelman syndrome methylation-MLPA (UPD, deletion)		

CNS MALFORMATIONS AND DISORDERS

<input type="radio"/> 691	Comprehensive Brain Malformations Panel (seq & del/dup of 103 genes)	<input type="radio"/> J511	Microcephaly Xpanded Panel (800+ genes, trios preferred)
<input type="radio"/> 698	Cortical Brain Malformations Panel (seq & del/dup of 61 genes)	<input type="radio"/> 699	Syndromic Macrocephaly/Overgrowth Syndromes Panel (seq & del/dup of 29 genes)
<input type="radio"/> 700	Pontocerebellar Hypoplasia Panel (seq & del/dup of 19 genes)	<input type="radio"/> J853	Leukodystrophy Xpanded Panel (300+ genes, trios preferred)
<input type="radio"/> 701	Joubert Syndrome and Related Disorders Panel (seq & del/dup of 29 genes)	<input type="radio"/> 552	X-linked hydrocephalus/X-linked spastic paraplegia/MASA/CRASH syndrome (<i>LICAM</i> seq & del/dup)
<input type="radio"/> 946	Lissencephaly Panel (seq & del/dup of 26 genes)	<input type="radio"/> TB51	Comprehensive Holoprosencephaly Panel (seq & del/dup of 17 genes)
<input type="radio"/> 722	Rest of the Brain Malformations Panel (if subpanel negative)	<input type="radio"/> 2371	Holoprosencephaly (<i>SHH</i> , <i>ZIC2</i> , <i>SIX3</i> , <i>TGIF</i> seq & del/dup)
<input type="radio"/> 689	Microcephaly Panel (seq & del/dup of 65 genes)	<input type="radio"/> 526	Cerebral cavernous malformations (<i>KRIT1</i> , <i>CCM2</i> , <i>PDCD10</i> seq & del/dup)
		<input type="radio"/> T844	Dementia Panel (seq only of 11 genes, for patients 18 years and older)

MOVEMENT DISORDERS

<input type="radio"/> 941	Comprehensive Hereditary Spastic Paraplegia Panel (seq & del/dup of 42 genes)	<input type="radio"/> T402	Dystonia and Parkinsonism Panel (seq & del/dup of 73 genes)
<input type="radio"/> 942	Uncomplicated Hereditary Spastic Paraplegia Panel (seq & del/dup of 14 genes)	<input type="radio"/> T403	Dystonia Panel (seq & del/dup of 53 genes)
<input type="radio"/> 943	Rest of Comprehensive Hereditary Spastic Paraplegia Panel (if subpanel negative)	<input type="radio"/> T401	Parkinson Disease Panel (seq & del/dup of 29 genes)
<input type="radio"/> 944	Hereditary Spastic Paraplegia Related Inborn Error of Metabolism Panel (seq & del/dup of 15 genes)	<input type="radio"/> T919	Rest of Dystonia and Parkinsonism Panel (if subpanel negative)
<input type="radio"/> T851	Cerebral Palsy Xpanded Panel (1100+ genes, trios preferred)	<input type="radio"/> 527	Dopa-responsive dystonia (<i>GCH1</i> seq & del/dup)
<input type="radio"/> J762	Ataxia Xpanded Panel (1300+ genes, trios preferred)	<input type="radio"/> 359	Dopa-responsive dystonia/Infantile Parkinsonism/TH deficiency (TH seq)
		<input type="radio"/> 218	Alexander disease (<i>GFAP</i> seq)
		<input type="radio"/> 581	Niemann-Pick C disease (<i>NPC1</i> , <i>NPC2</i> seq)

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NEUROMUSCULAR DISORDERS

<input type="radio"/> 737	Hereditary Neuropathy Panel (seq & del/dup of 64 genes)	<input type="radio"/> 889	Neuromuscular Disorders Panel (seq & del/dup of 99 genes)
<input type="radio"/> 884	Core CMT Panel (seq & del/dup of 4 genes)	<input type="radio"/> 890	Limb-Girdle Muscular Dystrophy Panel (seq & del/dup of 30 genes)
<input type="radio"/> 885	Axonal CMT Panel (seq & del/dup of 32 genes)	<input type="radio"/> 891	Syndromic Congenital Muscular Dystrophy Panel (seq & del/dup of 19 genes)
<input type="radio"/> 886	Demyelinating CMT Panel (seq & del/dup of 23 genes)	<input type="radio"/> 892	Congenital Myopathy & Muscular Dystrophy Panel (seq & del/dup of 34 genes)
<input type="radio"/> J778	CMT Panel (seq & del/dup of 43 genes)	<input type="radio"/> 893	Myofibrillar Myopathy Panel (seq & del/dup of 8 genes)
<input type="radio"/> T399	Hereditary Sensory and Autonomic Neuropathy Panel (seq del/dup of 14 genes)	<input type="radio"/> 894	Rest of Neuromuscular Disorders Panel (if subpanel negative)
<input type="radio"/> 887	Rest of the Hereditary Neuropathy Panel (if subpanel negative)	<input type="radio"/> 787	Duchenne/Becker MD (<i>DMD</i> del/dup)
<input type="radio"/> 742	CMT1A/HNPP (<i>PMP22</i> del/dup)	<input type="radio"/> 786	Duchenne/Becker MD (<i>DMD</i> seq)
<input type="radio"/> 888	HNPP/CMT1E (<i>PMP22</i> seq)	<input type="radio"/> T406	Spinal Muscular Atrophy Panel (seq & del/dup of 18 genes plus <i>SMN1/2</i> Dosage Analysis)
<input type="radio"/> 363	Familial Amyloid Polyneuropathy (<i>TTR</i> seq)	<input type="radio"/> T789	SMN1/2 Dosage Analysis
<input type="radio"/> T815	Juvenile ALS Panel (seq & del/dup of 16 genes)	<input type="radio"/> 818	Myotonic Dystrophy 1 (DM1) (<i>DMPK</i> repeat analysis)
<input type="radio"/> J805	Amyotrophic Lateral Sclerosis/Frontotemporal Lobar Degeneration (<i>C9orf72</i> repeat analysis, for patients 18 years and older)	<input type="radio"/> 900*	Reflex to DM1 Southern blot, if 818 is positive
<input type="radio"/> T404	Amyotrophic Lateral Sclerosis/Frontotemporal Lobar Degeneration Panel (seq & del/dup of 24 genes, for patients 18 years and older)	<input type="radio"/> 819	Myotonic Dystrophy 2 (DM2) (<i>CNBP</i> repeat analysis)
Order of Reflex Testing:		<input type="radio"/> 743	Oculopharyngeal Muscular Dystrophy (<i>PABPN1</i> repeat analysis)
<input type="radio"/> Activate J805, if negative activate T404		<input type="radio"/> 945	Congenital Myasthenia Syndromes Panel (seq & del/dup of 18 genes)
<input type="radio"/> 820	Spinal & Bulbar Muscular Atrophy (<i>AR</i> repeat analysis)	* Samples from New York state cannot be accepted for the Southern Blot test. A 2-5 mL blood sample is required for Southern Blot analysis.	

MITOCHONDRIAL DISORDERS

<input type="radio"/> J809	MitoXpanded Panel (1800+ genes, trios preferred)	<input type="radio"/> 576	Lactic Acidosis/Pyruvate Metabolism Nuclear Gene Panel (seq & del/dup of 130 genes)
<input type="radio"/> 554	Concurrent full sequence analysis & deletion testing of the mito genome (not a trio based test)	<input type="radio"/> 577	Progressive External Ophthalmoplegia (PEO)/Optic Atrophy Nuclear Gene Panel (seq & del/dup of 44 genes)
<input type="radio"/> 615	Combined Mito Genome Plus Mito Focused Nuclear Gene Panel (seq & del/dup of mito genome and 202 nuclear genes)	<input type="radio"/> 578	Methylglutaconic Aciduria Nuclear Panel (seq & del/dup of 14 genes)
<input type="radio"/> 554	Full sequence analysis and deletion testing of the mitochondrial genome	<input type="radio"/> 704	65 mtDNA Point Variants Plus Large Deletions Panel
<input type="radio"/> 573	Mitochondrial Focused Nuclear Gene Panel (seq & del/dup of 202 genes)	<input type="radio"/> TB60	Deletion analysis of mito genome
<input type="radio"/> 575	Mitochondrial Encephalopathy/Leigh Syndrome Nuclear Gene Panel (seq & del/dup of 134 genes)	<input type="radio"/> 394	POLG gene sequencing

NEUROMETABOLIC DISORDERS

<input type="radio"/> J979	Combined Lysosomal and Peroxisomal Disorders Panel (seq & del/dup of 82 genes)	<input type="radio"/> T012	Metabolic Myopathy Panel (seq & del/dup of 30 genes)
<input type="radio"/> T013	Lysosomal Disorders Panel (seq & del/dup of 57 genes)	<input type="radio"/> T011	Methylmalonic Acidemia, Disorders of Cobalamin Metabolism and Related Disorders Panel (seq & del/dup of 19 genes)
<input type="radio"/> J978	Peroxisomal Disorders Panel (seq & del/dup of 25 genes)	<input type="radio"/> J981	Riboflavin Transporter Deficiency and Related Disorders (seq & del/dup of 9 genes)
<input type="radio"/> J977	Congenital Disorders of Glycosylation Panel (seq & del/dup of 108 genes)	<input type="radio"/> 334	Carnitine Palmitoyltransferase II Deficiency (<i>CPT2</i> seq)
<input type="radio"/> J976	Creatine Deficiency Syndromes Panel (seq & del/dup of 3 genes)	<input type="radio"/> 2321	Fabry Disease (<i>GLA</i> seq)
<input type="radio"/> J995	Disorders of Hyperphenylalaninemia and Biopterin Metabolism Panel (seq & del/dup of 7 genes)	<input type="radio"/> 507	Krabbe Disease (<i>GALC</i> seq & del/dup)
<input type="radio"/> T382	Fatty Acid Oxidation Disorders Panel (seq & del/dup of 15 genes)	<input type="radio"/> 287	Pompe disease/glycogen storage disease type II (<i>GAA</i> seq)
<input type="radio"/> T010	Hyperammonemia, Urea Cycle and Transporter Defects Panel (seq & del/dup of 48 genes)	<input type="radio"/> J975	X-linked adrenoleukodystrophy (<i>ABCD1</i> seq & del/dup)

NEUROFIBROMATOSIS

<input type="radio"/> 962	NF1 panel: <i>NF1</i> and <i>SPRED1</i> sequencing and deletion/duplication testing	<input type="radio"/> 963	NF2 panel: <i>NF2</i> and <i>SMARCB1</i> sequencing and deletion/duplication testing
<input type="radio"/> TA06	Reflex to Noonan syndrome and RASopathies panel (sequencing of 25 genes) if 962 is negative	<input type="radio"/> 961	Comprehensive NF panel: <i>NF1</i> , <i>SPRED1</i> , <i>NF2</i> and <i>SMARCB1</i> sequencing and deletion/duplication testing

INFORMED CONSENT

Account #	Account Name	
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General Information About Genetic Testing

What is genetic testing?

DNA provides instructions for our body's growth and development. Genes are distinct sequences of DNA, and are arranged on chromosomes. The DNA in a gene contains instructions for making proteins, which determine things like growth and metabolism as well as traits like eye color and blood type. Genetic disorders are caused by certain changes in DNA affecting the structure or number of chromosomes. Genetic testing is a laboratory test that tries to identify these changes in chromosomes or the DNA. Genetic testing can be a diagnostic test, which is used to identify or rule out a specific genetic condition. Genetic screening tests are used to assess the chance for a person to develop or have a child with a genetic condition. Genetic screening tests are not typically diagnostic and results may require additional testing.

The purpose of this test is to see if I, or my child, may have a genetic variant or chromosome rearrangement causing a genetic disorder or to determine the chance that I, or my child, will develop or pass on a genetic disorder in the future. 'My child' can also mean my unborn child, for the purposes of this consent.

If I/my child already know the specific gene variant(s) or chromosome rearrangement that causes the genetic disorder in my family, I will inform the laboratory of this information.

What could I learn from this genetic test?

The following describes the possible results from the test:

1) Positive: A positive result indicates that a genetic variant has been identified that explains the cause of my/my child's genetic disorder or indicates that I/my child am at increased risk to develop the disorder in the future. It is possible to test positive for more than one genetic variant.

2) Negative: A negative result indicates that no disease-causing genetic variant was identified by the test performed. It does not guarantee that I/my child will be healthy or free from genetic disorders or medical conditions. If I/my child test negative for a variant known to cause the genetic disorder in other members of my/my child's family, this result rules out a diagnosis of the same genetic disorder in me/ my child due to this specific change.

3) Inconclusive/Variant of Uncertain Significance (VUS): A finding of a variant of uncertain significance indicates that a genetic change was detected, but it is currently unknown whether that change is associated with a genetic disorder either now or in the future. A variant of uncertain significance is not the same as a positive result and does not clarify whether I/my child is at increased risk to develop a genetic disorder. The change could be a normal genetic variant or it could be disease-causing. Further analysis may be recommended, including testing parents and other family members. Detailed medical records or information from other family members also may be needed to help clarify results.

4) Unexpected results: 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 tell me about the risk for another genetic condition I/my child is not aware of or it may indicate differences in the number or rearrangement of sex chromosomes. This information may be disclosed to the ordering health care provider if it likely impacts medical care.

Result interpretation is based on currently available information in the medical literature, research and scientific databases. Because the literature, medical and scientific knowledge are constantly changing, new information that becomes available in the future may replace or add to the information GeneDx used to interpret my/my child's results. Providers can contact GeneDx at any time to discuss the classification of an identified variant. In addition, I or my/my child's health care providers may monitor publicly available resources used by the medical community, such as ClinVar (www.clinvar.com), to find current information about the clinical interpretation of my/my child's variant(s).

For tests that evaluate data from multiple family members, my spouse, or partner concurrently, results may be included in a single comprehensive report.

What are the risks and limitations of this genetic test?

- Genetic testing is an important part of the diagnostic process. However, genetic tests may not always give a definitive answer. 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. Failing to accurately state the biological relationships in my/my child's family may result in incorrect interpretation of results, incorrect diagnoses, and/or inconclusive test results. In some cases, genetic testing can reveal that the true biological relationships in a family are not as they were reported. This includes non-paternity (the stated father of an individual is not the biological father) and consanguinity (the parents of an individual are related by blood). It may be necessary to report these findings to the health care provider who ordered the test.
- Genetic testing is highly accurate. Rarely, inaccurate results may occur for various reasons. These reasons include, but are not limited to: mislabeled samples, inaccurate reporting of clinical/medical information, rare technical errors, or unusual circumstances such as bone marrow transplantation, or the presence of change(s) in such a small percentage of cells that the change(s) may not be detectable by the test (mosaicism).

- This test does not have the ability to detect all of the long-term medical risks that I/my child might experience. The result of this test does not guarantee my health or the health of my child/fetus. Other diagnostic tests may still need to be done, especially when only a genetic screening test has been performed previously.
- Occasionally, an additional sample may be needed if the initial specimen 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 here: www.nsgc.org. Further testing or additional consultations with a health care provider may be necessary.

To maintain confidentiality, the test results will only be released to the referring health care provider, to the ordering laboratory, to me, to other health care providers involved in my/my child's diagnosis and treatment, or to others as entitled by law. The United States Federal Government has enacted several laws that prohibit discrimination based on genetic test results by health insurance companies and employers. In addition, these laws prohibit unauthorized disclosure of this information. For more information, I understand that I can visit www.genome.gov/10002077.

International Specimens

If I/my child reside outside the United States, I attest that by providing a sample for testing, I am not knowingly violating any export ban or other legal restriction in the country of my/my child's residence.

Additional information about the specific test being ordered is available from my health care provider or I can go to the GeneDx website, www.genedx.com. This information includes the complete gene lists, the specific types of genetic disorders that can be identified by the genetic test, the likelihood of a positive result, the limitations of genetic testing, as well as information about how specimens and information are stored and used.

Specimen Retention

After testing is complete, the de-identified submitted specimen may be used for test development and improvement, internal validation, quality assurance, and training purposes. DNA specimens are not returned to individuals or to referring health care 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 will not be retained 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. No tests other than those authorized shall be performed on the biological sample.

Database Participation

De-identified health history and genetic information can help health care providers and scientists understand how genes affect human health. Though I/my child may not personally benefit, sharing this information helps health care providers to provide better care for their patients and researchers to make discoveries. GeneDx shares this type of information with health care providers, scientists and health care databases. No personal identifying information will be shared, as it will be replaced with a unique code.

Even though only a code is used for the reporting to the database, there is a risk that I/my child 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/my child's} genetic or health information with public resources, such as genealogy websites.

Recontact for Research Participation

Separate from the above, GeneDx may collaborate with 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, and if I have consented for recontact, GeneDx may allow my healthcare provider to be recontacted for research purposes, such as the development of new testing, drug development, or other treatment modalities. In some situations, such as if my health care provider is not available, I may be contacted directly.

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 {my/my child} or {my/my child's} heirs.