

**Shipping address:**

**Washington University Department of Pathology & Immunology**  
 Clinical Support Office  
 425 S. Euclid Ave. | MSC 8024-14-4711 | St. Louis MO 63110  
 Tel: (314) 747-7337 | Fax: (314) 747-7336

**Specimen drop-off locations:**

**Children's Hospital**  
 One Children's Place  
 Central Receiving 2N-25  
 St. Louis, MO 63110  
 Tel: (314) 454-4161

**North Campus Lab**  
 Institute of Health (IOH) Core Lab  
 425 S. Euclid Ave. | Room 4701  
 St. Louis, MO 63110  
 Tel: (314) 362-1470

**This requisition has two pages, please complete both pages to ensure testing.**

PATIENT IDENTIFICATION				PHYSICIAN ORDERING TEST (NPI required)				
Patient Status: <input type="checkbox"/> Inpatient <input type="checkbox"/> Outpatient <input type="checkbox"/> Office Visit				Name:				
Name Last:		First:	MI:	Institution:				
DOB (mm/dd/yyyy):		Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female	NPI:		Email:			
Medical Record # (if applicable):				Address:				
Address:				City:		State:	Zip:	Country:
City:		State:	Zip:	Country:		Phone:		Fax:
Ethnicity (select all that apply):				Alternative Contact Information:				
<input type="checkbox"/> African American <input type="checkbox"/> Asian <input type="checkbox"/> Caucasian/NW European <input type="checkbox"/> E Indian <input type="checkbox"/> Hispanic <input type="checkbox"/> Jewish-Ashkenazi <input type="checkbox"/> Jewish-Sephardic <input type="checkbox"/> Mediterranean <input type="checkbox"/> Native Hawaiian/Pacific Islander <input type="checkbox"/> Others				Phone:		Email:		
				Notes:				

SPECIMEN TYPE			
Date Collected (mm/dd/yyyy):		Time Collected:	
Collected By:		Directions	
Sample Type (Select one):		1. Draw 3-5 ml of peripheral blood in lavender top EDTA tube. 2. Label tube with patient first/last name, DOB, and collection date/time. 3. Place tube in a biohazard bag and form into document sleeve of the biohazard bag ensuring no patient information is visible. 4. Ship specimen overnight in appropriate packaging at room temperature or with cold pack (Monday-Thursday only).	
<input type="checkbox"/> Peripheral Blood <input type="checkbox"/> Other (please specify)			

**REASON FOR TESTING** (Required-failure to include complete information may delay testing)

Diagnosis:	
ICD10 Code(s):	Age of Onset:

**CLINICAL INFORMATION**

(Orders MUST include the completed clinical features checklist OR clinical notes/records. Also include family medical history/pedigree, if available.)

**TESTING REQUESTED**

Individual(s) Tested:	<i>Please note: a completed test requisition form is required for each individual providing a sample for sequencing, including family members.</i>
<input type="checkbox"/> Patient Only	
<input type="checkbox"/> Family—Trio, Duo, etc. <i>please complete the additional family member section below</i>	

**FOR ADDITIONAL FAMILY MEMBER(S)**

Name (Last, First MI):	Date of Birth (mm/dd/yyyy):	Sample Type: <input type="checkbox"/> Peripheral Blood <input type="checkbox"/> Other	Relationship to patient	Affected Status <input type="checkbox"/> Yes <input type="checkbox"/> No
Name (Last, First MI):	Date of Birth (mm/dd/yyyy):	Sample Type: <input type="checkbox"/> Peripheral Blood <input type="checkbox"/> Other	Relationship to patient	Affected Status <input type="checkbox"/> Yes <input type="checkbox"/> No
Name (Last, First MI):	Date of Birth (mm/dd/yyyy):	Sample Type: <input type="checkbox"/> Peripheral Blood <input type="checkbox"/> Other	Relationship to patient	Affected Status <input type="checkbox"/> Yes <input type="checkbox"/> No

## SECONDARY FINDINGS

See consent documentation for details. Please note: this selection must be consistent with the choice selected in the informed consent.

Opt in secondary findings     
  Opt out secondary findings     
  Patient's informed consent is completed.

### Healthcare Professional Signature to Authorize Testing, Statement of Medical Necessity and Transmission of Results Verification

I certify that the patient specified above and/or their legal guardian has been informed of the benefits, risks, and limitations of the laboratory test(s) requested and Informed Consent has been obtained, as well as any other consent from the patient required by my state in order to perform a genetic test on a specimen has been obtained. I further certify that the test(s) requested is/are medically necessary and the results of this test will be used in the medical management of the patient. The undersigned Client authorizes the Washington University School of Medicine to send Protected Healthcare Information (PHI) as identified in the Health Insurance Portability and Accountability Act (HIPAA) to the facsimile phone number above. Client acknowledges they are solely responsible for adopting and implementing appropriate policies and procedures, including physical safeguards, so that the location and use of the facsimile machine complies with all applicable HIPAA regulations.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Below, office use only:

Date/Time Received: \_\_\_\_\_ Accession Number: \_\_\_\_\_ Technician Initial: \_\_\_\_\_

### Insurance and Precertification

Patients are responsible for non-covered services, deductibles, co-insurance, contract exclusions, non-authorized services, and remaining balances after insurance reimbursement. Washington University School of Medicine can only accept authorized Missouri and Illinois MEDICAID covered charges for genetic testing. Other out-of-state welfare programs cannot be billed. Please contact our Patient Accounts Manager office at (314) 362-5641 or via email at pathbillingoffice@path.wustl.edu.

Prior Authorization Number: \_\_\_\_\_ ICD10 Code(s): \_\_\_\_\_ CPT Codes and Units Authorized: \_\_\_\_\_

### ATTACH COPY OF INSURANCE CARD (if not available, complete the following)

Policy Holder's Name: Last: \_\_\_\_\_ First: \_\_\_\_\_ MI: \_\_\_\_\_

Policy Holder's DOB (mm/dd/yyyy): \_\_\_\_\_

Relationship to patient: \_\_\_\_\_

Insurance Co. Name: \_\_\_\_\_

Insurance Co. Phone: \_\_\_\_\_

Plan Name: \_\_\_\_\_

ID #: \_\_\_\_\_

Group #: \_\_\_\_\_

### Self-Pay/Patient Financial Assistance

Patients who are self-pay should contact our office to arrange for payment. Financial assistance may be available. For more information, contact our Patient Accounts Manager office at (314) 362-5641 or via email at path-billing@email.wustl.edu.

## INSTITUTIONAL BILLING: COMPLETE SECTION BELOW

### Institutional Billing

Institution Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Email: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

## CLINICAL FEATURES CHECKLIST

### PRE/PERINATAL

- Abnormality of septum pellucidum:
  - Absent septum pellucidum
  - Cavum septum pellucidum
- Choroid plexus cyst (CPC)
- Absent nasal bone
- Congenital heart defect
- Intracardiac echogenic focus (IEF)
- Cystic hygroma
- Increased nuchal translucency, Size (mm): \_\_\_\_\_
- Pleural effusion
- Pericardial effusion
- Generalized edema
- Fetal ascites
- Hydrops fetalis
- Diaphragmatic hernia
- Absent stomach bubble
- Omphalocele
- Gastroschisis
- Echogenic bowel
- Fetal pyelectasis/hydronephrosis
- Decreased fetal movement
- Encephalocele
- Myelomeningocele/Spina bifida
- Sacrococcygeal teratoma
- Intrauterine growth retardation (IUGR)
- Small for gestational age (SGA)
- Oligohydramnios
- Polyhydramnios
- Short long bones
- Small thorax
- Fetal demise
- Prematurity, Gestational Age: \_\_\_\_\_
- Other: \_\_\_\_\_

### STRUCTURAL BRAIN

#### ABNORMALITIES/IMAGING

- Abnormal/delayed myelination
- Abnormality of basal ganglia
- Abnormality of brainstem
- Abnormality of white matter:
  - Periventricular
  - Other: \_\_\_\_\_
- Abnormality of cerebral ventricles:
  - Colpocephaly
  - Hydrocephalus
  - Ventriculomegaly
- Abnormality of corpus callosum: morphology
  - Agenesis
    - Complete
    - Partial
- Aplasia/hypoplasia
- Aplasia/hypoplasia of cerebellar vermis
- Aplasia/hypoplasia of cerebellum
- Arnold-Chiari malformation:
  - Type I
  - Type II
  - Unspecified

- Cerebral atrophy/hypoplasia
- Cerebral calcification
- Holoprosencephaly
- Iron deposition
- Leukodystrophy
- Neuronal migration abnormality:
  - Cortical gyration
    - Lissencephaly
    - Pachygyria
      - Polymicrogyria
      - Macrogyria
    - Simplified gyria
- Gray matter heterotopia:
  - Subcortical
  - Periventricular
- Other: \_\_\_\_\_

### DEVELOPMENTAL/BEHAVIORAL

- Aggressive/violent behavior
- Anxiety
- Attention-deficit hyperactivity disorder
- Autistic behavior
- Autism/autism spectrum disorder
- Cognitive impairment
- Delayed fine motor development
- Delayed gross motor development
- Developmental regression
- Gait disturbance, Specify: \_\_\_\_\_
- Global developmental delay
- Hyperactivity
- Incoordination
- Intellectual disability:
  - Mild
  - Moderate
  - Severe/profound
- Learning disability
- Language impairment:
  - Absent speech
  - Apraxia
  - Articulation difficulties
  - Delayed speech and language development
    - Expressive
    - Receptive
    - Dysarthria
    - Echolalia
    - Loss of speech
- Memory impairment
- Obsessive-compulsive behavior
- Self-injurious behavior:
  - Biting
  - Head-banging
  - Skin picking
- Sensory processing disorder/ neurodevelopmental abnormality
- Sleep disturbance
- Stereotypy:
  - Recurrent hand flapping
  - Stereotypical hand wringing
- Other: \_\_\_\_\_

### NEUROLOGICAL

- Abnormality of nervous system
- Ataxia
- Athetosis
- Bradykinesia
- Cerebral palsy
- Chorea
- Cortical visual impairment
- Dementia
- Dysarthria
- Dyskinesia
- Dysphasia
- Dystonia
- Encephalopathy
- Gait disturbance, Specify: \_\_\_\_\_
- Headache
- Hemiplegia
- Hypotonia
- Hypertonia
- Infantile spasms
- Migraine
- Myoclonus
- Neuropathy:
  - Peripheral
  - Sensory
- Parkinsonism/Parkinson Disease
- Seizures, Type: \_\_\_\_\_
- Spasticity
- Syncope
- Tremors
- Vertigo
- Other: \_\_\_\_\_

### CRANIOFACIAL/DYSMORPHISM

- Abnormal facial shape, Specify: \_\_\_\_\_
- Abnormality of incisors, Specify: \_\_\_\_\_
- Ala nasi:
  - Cleft
  - Thick
  - Underdeveloped
- Anteverted nares
- Brachycephaly
- Chin abnormality, Specify: \_\_\_\_\_
- Cleft lip:
  - Unilateral
  - Bilateral
  - Midline
- Cleft palate:
  - Unilateral
  - Bilateral
  - Midline
  - Submucous cleft
- Cloverleaf skull
- Columella abnormality:
  - Broad
  - High insertion

- Low hanging
- Low insertion
- Short
- Craniosynostosis:
  - Coronal
  - Lambdoidal
  - Metopic
  - Orbital
  - Sagittal
- Dolichocephaly
- Face abnormality:
  - Broad
  - Coarse facial features
  - Flat
  - Long
  - Narrow
  - Round
  - Short
  - Square
  - Triangular
- Forehead abnormality:
  - Broad
  - Narrow
  - Prominent
  - Sloping
  - Creases
- Frontal bossing
- Jaw Abnormality:
  - Broad
  - Narrow
- Lip vermilion abnormality
- Lip abnormality:
  - Pit
  - Thin
  - Thick
  - Tented
  - Exaggerated cupid's bow
  - Absent cupid's bow
- Malar abnormality:
  - Flattening
  - Prominence
- Midface abnormality:
  - Flat
  - Prominence
  - Retrusion
- Macrocephaly:
  - Relative
  - True
- Metopic suture abnormality:
  - Depression
  - Ridge
- Microcephaly
- Micrognathia
- Nasal base abnormality:
  - Narrow
  - Wide
- Nasal bridge abnormality:
  - Depressed
  - Narrow
  - Prominent
  - Short

- Wide
- Prominent
- Nasal cartilage, absent
- Nasal ridge abnormality:
  - Depressed
  - Narrow
- Wide
- Nasal tip abnormality:
  - Bifid
  - Broad
  - Depressed
  - Deviated
  - Narrow
  - Overhanging
- Nasolabial fold abnormality:
  - Prominent
  - Underdeveloped
- Neck abnormality:
  - Broad
  - Long
  - Webbed
  - Short
  - Redundant nuchal skin
- Nose abnormality:
  - Absent
  - Bifid
  - Long
  - Narrow
  - Prominent
  - Short
  - Wide
- Occiput abnormality:
  - Flat
  - Prominent
- Plagiocephaly
- Philtrum abnormality:
  - Broad
  - Deep
  - Hypoplastic
  - Long
  - Narrow
  - Smooth
  - Short
  - Tented
- Proboscis
- Prognathism
- Retrognathia
- Scaphocephaly
- Supraorbital ridge abnormality:
  - Prominent
  - Underdeveloped
  - Trigonicephaly
  - Turricephaly
- Other: \_\_\_\_\_

**EYE/VISION**

- Age of onset of vision issues: \_\_\_\_\_
- Esotropia
- Exotropia
- Nystagmus
- Smooth pursuit
- Strabismus
- Other: \_\_\_\_\_

- Abnormality of vision,
  - Specify: \_\_\_\_\_
- Abnormal anterior eye segment morphology
- Ablepharon
- Achromatopsia
- Aniridia
- Ankyloblepharon
- Anophthalmia
- Blepharochalasis
- Blepharophimosis
- Cataracts
- Cataracts, congenital
- Coloboma
- Corneal opacity
- Corneal dystrophy
- Cone/cone-rod dystrophy
- Congenital stationary night blindness
- Cryptophthalmos
- Deeply set eyes
- Distichiasis
- Dyschromatopsia (color blindness)
- Ectopia lentis
- Ectropion
- Entropion
- Epiblepharon
- Epicanthus/epicanthal folds
- Epicanthus inversus
- Eyebrow abnormality:
  - Broad
  - Highly arched
  - Horizontal
  - Sparse
  - Thick
- Eyelash abnormality:
  - Absent
  - Long
  - Prominent
  - Sparse
- Eyelid cleft
- External ophthalmoplegia:
  - Progressive
- Glaucoma
- Infraorbital abnormality:
  - Crease
  - Fold
- Iris abnormality,
  - Specify: \_\_\_\_\_
- Lagophthalmos
- Leber optic atrophy
- Lens subluxation
- Macular abnormality,
  - Specify: \_\_\_\_\_
- Macular dystrophy
- Microphthalmia
- Myopia
- Ocular albinism
- Optic atrophy
- Optic neuropathy
- Palpebral fissure abnormality:
  - Downslanted
  - Upslanted
  - Long

- Short
- Almond-shaped
- Proptosis
- Ptosis
- Retinal flecks
- Retinal detachment
- Retinitis pigmentosa:
  - Synophrys
  - Telecanthus
  - Other: \_\_\_\_\_

**EARS/HEARING**

- Age of onset of hearing loss: \_\_\_\_\_
- Hearing impairment
  - Congenital
  - Progressive
  - Conductive
  - Sensorineural
  - Mixed
  - Unilateral
  - Bilateral
- Anotia
- Abnormal newborn screen,
  - Specify: \_\_\_\_\_
- Antihelix abnormality:
  - Absent
  - Additional crus
  - Angulated
  - Inferior crus broad
  - Inferior crus prominent
  - Inferior crus underdeveloped
  - Superior crus prominent
  - Superior crus underdeveloped
- Antitragus abnormality:
  - Absent
  - Bifid
  - Everted
  - Prominent
  - Underdeveloped
- Ear abnormality:
  - Abnormality of the tragus
  - Auricular pit
  - Crumpled
  - Cupped
  - Long
  - Low-set
  - Posteriorly rotated
  - Preauricular pit
  - Protruding
  - Short
  - Satyr
  - Tag
- Helix abnormality:
  - Cleft
  - Crimped
  - Darwin notch
  - Darwin tubercle
  - Notching
  - Overfolded
  - Prominent
  - Thin
- Lobe abnormality:
  - Cleft

- Forward-facing
- Large
- Small
- Uplifted
- Macrotia
- Other: \_\_\_\_\_

**ENDOCRINE**

- Adrenal insufficiency (Addison)
- Androgen insensitivity
- Androgen excess
- Congenital adrenal hypoplasia
- Congenital adrenal hyperplasia
- Delayed bone age
- Delayed puberty
- Diabetes insipidus
- Diabetes Mellitus
- Hyperandrogenism
- Hyperglycemia
- Hyperphosphatemia
- Hyperthyroidism
- Hypoglycemia
- Hypophosphatemia
- Hypothyroidism
- Increased cortisol level (Cushing)
- Maturity-onset diabetes of the young
- Precocious puberty
- Rickets
- Other: \_\_\_\_\_

**RESPIRATORY**

- Asthma
- Bronchiectasis
- Bronchomalacia
- Hyperventilation
- Hypoventilation
- Laryngomalacia
- Laryngeal cleft
- Pneumothorax
- Pulmonary fibrosis
- Respiratory insufficiency
- Tracheomalacia
- Tracheoesophageal fistula
- Other: \_\_\_\_\_

**HEMATOLOGIC/IMMUNOLOGIC**

- Agammaglobulinemia
- Allergic rhinitis
- Anemia
- Hemolytic anemia
- Immunodeficiency,
  - Specify: \_\_\_\_\_
- Lymphopenia
- Neutropenia
- Pancytopenia
- Recurrent infections
- Severe combined immunodeficiency
- Thrombocytopenia
- Other: \_\_\_\_\_

**SKIN/HAIR**

- Abnormal blistering of the skin,
  - Specify: \_\_\_\_\_

- Abnormality of nail:
  - Broad
  - Deep-set
  - Pits
- Albinism
- Alopecia
- Anhidrosis
- Cafe-au-lait spot:
  - Single
  - Multiple
- Coarse hair
- Collodion baby
- Cutaneous photosensitivity
- Cutis laxa
- Dry skin
- Eczema
- Erythematous skin
- Hemangioma
- Hairline:
  - Low
  - High
  - Anterior
  - Posterior
- Hyperextensible skin
- Hyperpigmentation of the skin
- Hypopigmentation of the skin
- Hypohidrosis
- Ichthyosis
- Jaundice
- Lipoma
- Lymphedema
- Palmoplantar keratoderma
- Scarring of skin
- Skin rash
- Sparse hair
- Telangiectasia
- Vascular skin abnormality
- Velvety skin
- Other: \_\_\_\_\_

**CARDIAC**

- Amyloidosis
- Aortic root dilatation
- Arrhythmia
- Atrial septal defect
- Atrioventricular canal defect
- Arrhythmogenic right ventricular dysplasia
- Bicuspid aortic valve
- Bradycardia
- Coarctation of the aorta
- Congenital heart defect
- Dilated cardiomyopathy
- Double outlet right ventricle
- Ebstein anomaly
- Heterotaxy
- Hypertension
- Hypertrophic cardiomyopathy
- Mitral valve prolapse
- Noncompaction cardiomyopathy
- Patent ductus arteriosus
- Patent foramen ovale
- Prolonged QTc interval
- Pulmonary hypertension:

- Arterial
- Vascular
- Sudden death
- Tetralogy of Fallot
- Transposition of the great vessels
- Truncus arteriosus
- Ventricular septal defect
- Ventricular tachycardia
- Other: \_\_\_\_\_

**GASTROINTESTINAL**

- Biliary atresia
- Cholestasis
- Constipation:
  - Acute
  - Chronic
- Diarrhea
- Diaphragmatic hernia
- Duodenal stenosis/atresia
- Esophageal stenosis/atresia
- Exocrine pancreatic insufficiency
- Failure to thrive
- Feeding difficulties
- Gastroesophageal reflux
- Gastroschisis
- Hepatomegaly
- Hepatosplenomegaly
- Inflammatory bowel disease
- Jaundice
- Liver disease
- Liver failure
- Nausea
- Omphalecele
- Pancreatitis
- Pyloric stenosis
- Splenomegaly
- Tracheoesophageal fistula
- Tube feeding:
  - Nasogastric
  - Gastrostomy
  - Gastrojejunal
- Umbilical hernia
- Vomiting
- Other: \_\_\_\_\_

**GENITOURINARY**

- Abnormality of the uterus,
  - Specify: \_\_\_\_\_
- Ambiguous genitalia
- Chordee
- Cryptorchidism
- Duplicated collecting system
- Horseshoe kidney
- Hydronephrosis
- Hypospadias/epispadias
- Inguinal hernia
- Micropenis
- Multicystic kidney dysplasia
- Nephrolithiasis
- Polycystic kidney disease
- Renal agenesis/hypoplasia:
  - Unilateral
  - Bilateral

- Sex reversal
- Vesicoureteral reflux
- Other: \_\_\_\_\_

**MUSCULOSKELETAL**

- Abnormal connective tissue
- Abnormal digit morphology:
  - Broad
  - Short
  - Clinodactyly
  - Ectrodactyly
  - Oligodactyly
  - Polydactyly
    - Postaxial
    - Preaxial
  - Syndactyly
- Arachnodactyly
- Arthralgia
- Arthrogryposis
- Bruising susceptibility
- Chest abnormality:
  - Small chest
  - Barrel-shaped
  - Bell-shaped thorax
  - Pectus carinatum
  - Pectus excavatum
- Contractures of joint(s)
- Decreased muscle mass
- Delayed bone age
- Dolichostenomelia
- Exercise intolerance
- Fatigue
- Fracture(s)
- Hemihypertrophy
- Hypertonia
- Hypotonia
- Joint hypermobility
- Kyphosis
- Limb shortening:
  - Mesomelic
  - Micromelic
  - Rhizomelic
- Metaphyseal abnormalities:
  - Dumbbell
  - Flared
- Muscle weakness
- Myalgia
- Myopathic facies
- Myopathy
- Myelomeningocele/Spina Bifida/ Neural
- Tube Defect
- Osteoarthritis
- Osteoporosis
- Osteopenia
- Pain:
  - Absent/decreased
  - Abnormal sensation
  - Episodic
  - Limb
  - Muscle
- Platypondyly
- Recurrent fractures
- Rhabdomyolysis

- Rib abnormalities:
  - Cupped
  - Fused
  - Supernumerary
  - Missing
  - Short
  - Spatulate
  - Other: \_\_\_\_\_
- Rickets
- Scoliosis
- Short stature
- Skeletal dysplasia
- Talipes:
  - Equinovarus
  - Other: \_\_\_\_\_
- Tall stature
- Thoracic dysplasia
- Thumb abnormality:
  - Adducted
  - Broad
  - Triphalangeal
- Vertebral bodies, abnormal form:
  - Aplasia/hypoplasia
  - Butterfly
  - Fusion
  - Hemivertebrae
- Other: \_\_\_\_\_

**VASCULAR SYSTEM:**

- Aneurysm:
  - Aortic
    - Abdominal
    - Dissecting
    - Thoracic
  - Cerebral
  - Other: \_\_\_\_\_
- Arterial calcification
- Arterial dissection
- Arterial tortuosity
- Arteriovenous malformation
- Epistaxis
- Lymphedema
- Pulmonary hypertension:
  - Arterial
  - Vascular
- Stroke
- Other: \_\_\_\_\_

**CANCER**

- Primary Diagnosis:**
  - Type: \_\_\_\_\_
  - Histologic Type: \_\_\_\_\_
  - Location: \_\_\_\_\_
  - Unilateral
  - Bilateral
  - Metastatic
  - Age of onset: \_\_\_\_\_
- Secondary Diagnosis:**
  - Type: \_\_\_\_\_
  - Histologic Type: \_\_\_\_\_
  - Location: \_\_\_\_\_
  - Unilateral
  - Bilateral

Metastatic  
 Family history of cancer,  
 Specify: \_\_\_\_\_  
 Include pathology reports

**OTHER TESTING**  
 Provide copy of report(s)

Echocardiogram: \_\_\_\_\_  
 EEG: \_\_\_\_\_  
 EMG/NCV: \_\_\_\_\_  
 Biopsy: \_\_\_\_\_  
 Gene testing: \_\_\_\_\_  
 Results: \_\_\_\_\_

*If you would like us to comment on the presence/absence of previously identified variants, provide a copy of the original report.*  
 Chromosomal Microarray:  
 (CMA): \_\_\_\_\_  
 MRI Brain: \_\_\_\_\_

MRI (other): \_\_\_\_\_  
 CT Brain: \_\_\_\_\_  
 CT (other): \_\_\_\_\_  
 Muscle biopsy: \_\_\_\_\_  
 Ultrasound: \_\_\_\_\_  
 X-Ray: \_\_\_\_\_

**METABOLIC FINDINGS**

Attach relevant lab reports and values

Mark where appropriate increased (↑), decreased (↓), or within normal limits (WNL).

	↑	↓	WNL
<input type="checkbox"/> Abnormal newborn screen Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Acylcarnitine profile Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Acylglycines Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Amino Acids			
<input type="checkbox"/> Plasma Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Urine Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Muscle Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Creatine phosphokinase (CPK)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Essential fatty acids			
<input type="checkbox"/> Plasma Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Folate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Glycosylation studies Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	↑	↓	WNL
<input type="checkbox"/> Hepatic transaminases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Homocystine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hormones Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hyperammonemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hyperbilirubinemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hyperglycemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hyperlipidemia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Ketones			
<input type="checkbox"/> Plasma Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Urine Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other enzymes Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Porphyrins			
<input type="checkbox"/> Plasma Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Urine Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Stool Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pterins Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	↑	↓	WNL
<input type="checkbox"/> Purine/pyrimidines Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Serum alpha fetoprotein (AFP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Serum pyruvate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sterols/Oxysterols Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Transferrin IEF Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Uric Acid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Very long chain fatty acids (VLCFA)			
<input type="checkbox"/> Plasma Specify: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Vitamins/minerals			
<input type="checkbox"/> Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Magnesium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Manganese	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Vitamin B6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Vitamin B12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Vitamin D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Zinc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>