

SPERM DONOR GENETIC TESTING SUMMARY

SPERM DONOR GENETIC TESTING SUMMARY Donor # 7917

Fairfax Cryobank recommends reviewing this genetic testing summary with your healthcare provider to determine suitability.

Last Updated: 11/13/2025

Donor Reported Ancestry: German, Irish, Polish Jewish Ancestry: No

Genetic Test*	Result	Comments Donor's Residual Risk** No evidence of clinically significant chromosome abnormalities	
Chromosome analysis (karyotype)	Normal male karyotype		
Hemoglobin evaluation	Normal hemoglobin fractionation and MCV/MCH results	Reduced risk to be a carrier for sickle cell anemia, beta thalassemia, alpha thalassemia trait (aa/ and a-/a-) and other hemoglobinopathies	
Expanded Genetic Disease Carrier Screening Panel attached - 549 diseases by gene sequencing and del/dup analysis.	Carrier: Primary Congenital Glaucoma/Peters Anomaly (CYP1B1) Negative for other genes tested.	Partner testing is recommended before using this donor.	

^{*}No single test can screen for all genetic disorders. A negative screening result significantly reduces, but cannot eliminate, the risk for these conditions in a pregnancy.

^{**}Donor residual risk is the chance the donor is still a carrier after testing negative.

Patient Name: Donor 7917

Date Of Birth:

Gender:

Ethnicity:

Northern European

Caucasian

N/A Patient ID:

Medical Record #: Collection Kit:

Accession ID: N/A

Case File ID:

Test Information

Ordering Physician:

Clinic Information: Fairfax Cryobank

Phone:

Report Date: Sample Collected:

Sample Type:

Sample Received:

05/24/2025

05/09/2025 05/10/2025

Blood



CARRIER SCREENING REPORT

ABOUT THIS SCREEN: Horizon[™] is a carrier screen for specific autosomal recessive and Xlinked diseases. This information can help patients learn their risk of having a child with specific genetic conditions.

ORDER SELECTED: The Horizon Custom

panel was ordered for this patient. Males are not

screened for X-linked diseases

FINAL RESULTS SUMMARY:



CARRIER for Primary Congenital Glaucoma/Peters Anomaly

Positive for the pathogenic variant c.1064_1076del (p.R355Hfs*69) in the CYP1B1 gene. If this individual's partner is a carrier for PRIMARY CONGENITAL GLAUCOMA/PETERS ANOMALY, their chance to have a child with this condition is 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

Negative for 548 out of 549 diseases

No other pathogenic variants were detected in the genes that were screened. The patient's remaining carrier risk after the negative screening results is listed for each disease/gene on the Horizon website at https://www.natera.com/panel-option/h-all/. Please see the following pages of this report for a comprehensive list of all conditions included on this individual's screen.

Carrier screening is not diagnostic and may not detect all possible pathogenic variants in a given gene.

RECOMMENDATIONS

Individuals who would like to review their Horizon report with a Natera Laboratory Genetic Counselor may schedule a telephone genetic information session by calling 650-249-9090 or visiting naterasession.com. Clinicians with questions may contact Natera at 650-249-9090 or email support@natera.com. Individuals with positive results may wish to discuss these results with family members to allow them the option to be screened. Comprehensive genetic counseling to discuss the implications of these test results and possible associated reproductive risk is recommended.

Diamblerkin



Patient Name: Donor 7917

Test Information

Ordering Physician:

Clinic Information: Fairfax Cryobank

horizon[™]
natera carrier screen

Date Of Birth: Case File ID:

Report Date: 05/24/2025

PRIMARY CONGENITAL GLAUCOMA/PETERS ANOMALY

Understanding Your Horizon Carrier Screen Results

What is Primary Congenital Glaucoma/Peters Anomaly?

Primary Congenital Glaucoma and Peters Anomaly are related inherited disorders that affect the eyes. Primary Congenital Glaucoma causes increased pressure in the eye (glaucoma), which usually starts before 1 year of age, although some children have symptoms that start later but usually before 5 years. The increasing pressure in the eye damages the optic nerves which causes worsening vision loss, and may cause bulging of the eyes, light sensitivity (photophobia) and excess tears. Early treatment with surgery and/or medications may prevent or lessen the vision loss. Peters Anomaly is less common and causes problems in the parts at the front of the eye: the cornea, lens, and iris. Children with Peters Anomaly have corneas that are partially or completely opaque instead of clear, which causes blurred and decreased vision. Some affected children also have lazy eye (amblyopia) and/or eyes that don't point in the same direction (strabismus). Other symptoms seen in some affected children include glaucoma, cataracts, and/or very small eyeballs (microphthalmia). There is no cure for either of these disorders and treatment is based on symptoms. Clinical trials involving potential new treatments for these conditions may be available (see www.clinicaltrials.goy).

What causes Primary Congenital Glaucoma/Peters Anomaly?

Primary Congenital Glaucoma and Peters Anomaly are caused by a gene change, or mutation, in both copies of the CYP1B1 gene pair. These mutations cause the genes to not work properly or not work at all. When both copies of the CYP1B1 gene do not work correctly, it leads to the symptoms of one of the two conditions described above. It is sometimes, but not always, possible to tell whether a specific mutation in the CYP1B1 gene will cause Primary Congenital Glaucoma or Peters Anomaly. Primary Congenital Glaucoma and Peters Anomaly are inherited in an autosomal recessive manner. This means that, in most cases, both parents must be carriers of a mutation in one copy of the CYP1B1 gene to have a child with one of these disorders. People who are carriers for Primary Congenital Glaucoma/Peters Anomaly are usually healthy and do not have symptoms, nor do they have either disorder themselves. Usually a child inherits two copies of each gene, one copy from the mother and one copy from the father. If the mother and father are both carriers for Primary Congenital Glaucoma/Peters Anomaly, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their CYP1B1 gene mutations to the child, who will then have one of these disorders. Individuals found to carry more than one mutation for Primary Congenital Glaucoma/Peters Anomaly, should discuss their risk for having an affected child with their health care provider. There are a number of other forms of both inherited Glaucoma and Peters Anomaly, each caused by mutations in different genes. A person who carries a mutation in the CYP1B1 gene is not likely to be at increased risk for having children with the other forms of these disorders.

What can I do next?

You may wish to speak with a local genetic counselor about your carrier test results. A genetic counselor in your area can be located on the National Society of Genetic Counselors website (www.nsgc.org). Your siblings and other relatives are at increased risk to also have this mutation. You are encouraged to inform your family members of your test results as they may wish to consider being tested themselves. If you are pregnant, your partner can have carrier screening for Primary Congenital Glaucoma/Peters Anomaly, your risk of having an affected child is greatly reduced. Couples at risk for having a baby with Primary Congenital Glaucoma/Peters Anomaly can opt to have prenatal diagnosis done through chorionic villus sampling (CVS) or amniocentesis during pregnancy or can choose to have the baby tested after birth. If you are not yet pregnant, your partner can have carrier screening for Primary Congenital Glaucoma/Peters Anomaly ordered by a health care professional. If your partner is found to be a carrier for Primary Congenital Glaucoma/Peters Anomaly, you have several reproductive options to consider:

- Natural pregnancy with or without prenatal diagnosis of the fetus or testing the baby after birth for Primary Congenital Glaucoma/Peters Anomaly
- Preimplantation genetic diagnosis (PGD) with in vitro fertilization (IVF) to test embryos for Primary Congenital Glaucoma/Peters Anomaly
- Adoption or use of a sperm or egg donor who is not a carrier for Primary Congenital Glaucoma/Peters Anomaly

What resources are available?

- Genetics Home Reference: https://ghr.nlm.nih.gov/condition/early-onset-glaucoma
- Genetics Home Reference: https://ghr.nlm.nih.gov/condition/ peters-anomaly
- Prenatal diagnosis done through CVS: http://www.marchofdimes.org/chorionic-villus-sampling.aspx
- Prenatal diagnosis done through Amniocentesis: http://www.marchofdimes.org/amniocentesis.aspx
- PGD with IVF: http://www.natera.com/spectrum



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VARIANT DETAILS

CYP1B1, c.1064_1076del (p.R355Hfs*69), pathogenic

- The c.1064_1076del (p.R355Hfs*69) variant in the CYP1B1 gene has been observed at a frequency of 0.0227% in the gnomAD v2.1.1 dataset.
 This variant has been reported in a homozygous state or in conjunction with another variant in individual(s) with primary congenital glaucoma (PMID: 9097971, 23218701).
- This premature termination variant is predicted to escape nonsense-mediated decay (NMD) but impact a significant portion of the protein length or a critical region of the protein, potentially disrupting normal protein function.
- This variant has been reported in ClinVar [ID: 282564].



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05/24/2025



DISEASES SCREENED

Below is a list of all diseases screened and the result. Certain conditions have unique patient-specific numerical values, therefore, results for those conditions are formatted differently.

Autosomal Recessive

17-BETA HYDROXYSTEROID DEHYDROGENASE 3 DEFICIENCY (HSD17B3) negative

3-BETA-HYDROXYSTEROID DEHYDROGENASE TYPE II DEFICIENCY (HSD3B2) negative 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A LYASE DEFICIENCY (HMGCL) negative 3-HYDROXYACYL-COA DEHYDROGENASE DEFICIENCY (HADH) negative 3-METHYLCROTONYL-CoA CARBOXYLASE 2 DEFICIENCY (MCCC2) negative 3-PHOSPHOGLYCERATE DEHYDROGENASE DEFICIENCY (PHGDH) negative

5-ALPHA-REDUCTASE DEFICIENCY (SRD5A2) negative

6-PYRUVOYL-TETRAHYDROPTERIN SYNTHASE (PTPS) DEFICIENCY (PTS) negative

ABCA4-RELATED CONDITIONS (ABCA4) negative ABETALIPOPROTEINEMIA (MTTP) negative ACHONDROGENESIS, TYPE 1B (SLC26A2) negative ACHROMATOPSIA, CNGB3-RELATED (CNGB3) negative
ACRODERMATITIS ENTEROPATHICA (SLC39A4) negative
ACTION MYOCLONUS-RENAL FAILURE (AMRF) SYNDROME (SCARB2) negative

ACUTE INFANTILE LIVER FAILURE, TRMU-RELATED (TRMU) negative

ACYL-COA OXIDASE I DEFICIENCY (ACOX1) negative AICARDI-GOUTIÈRES SYNDROME (SAMHD1) negative

AICARDI-GOUTIERES SYNDROME, RNASEH2A-RELATED (RNASEH2A) negative AICARDI-GOUTIERES SYNDROME, RNASEH2B-RELATED (RNASEH2B) negative AICARDI-GOUTIERES SYNDROME, RNASEH2C-RELATED (RNASEH2C) negative AICARDI-GOUTIÈRES SYNDROME, TREX1-RELATED (TREX1) negative AICARDI-GOUTIÈRES SYNDROME, TREX1-RELATED (TREX1) negative

ALPHA-MANNOSIDOSIS (MAN2B1) negative ALPHA-THALASSEMIA (HBA1/HBA2) negative ALPORT SYNDROME, COL4A3-RELATED (COL4A3) negative ALPORT SYNDROME, COL4A4-RELATED (COL4A4) negative

ALSTROM SYNDROME (ALMS1) negative
AMISH INFANTILE EPILEPSY SYNDROME (ST3GAL5) negative
ANDERMANN SYNDROME (SLC12A6) negative

ARGININE:GLYCINE AMIDINOTRANSFERASE DEFICIENCY (AGAT DEFICIENCY)

(GATM) negative ARGININEMIA (ARG1) negative ARGININOSUCCINATE LYASE DEFICIENCY (ASL) negative

AROMATASE DEFICIENCY (CYP19A1) negative
ASPARAGINE SYNTHETASE DEFICIENCY (ASNS) negative
ASPARTYLGLYCOSAMINURIA (AGA) negative

ATAXIA WITH VITAMIN E DEFICIENCY (TTPA) negative

ATAXIA-TELANGIECTASIA (ATM) negative
ATAXIA-TELANGIECTASIA (LIKE DISORDER 1 (MRE11) negative

ATRANSFERRINEMIA (TF) negative
ATRANSFERRINEMIA (TF) negative
AUTISM SPECTRUM, EPILEPSY AND ARTHROGRYPOSIS (SLC35A3) negative
AUTOIMMUNE POLYGLANDULAR SYNDROME, TYPE 1 (AIRE) negative
AUTOSOMAL RECESSIVE CONGENITAL ICHTHYOSIS (ARCI), SLC27A4-RELATED

AUTOSOMAL RECESSIVE SPASTIC ATAXIA OF CHARLEVOIX-SAGUENAY (SACS) negative

BARDET-BIEDL SYNDROME, ARL6-RELATED (ARL6) negative BARDET-BIEDL SYNDROME, BBS10-RELATED (BBS10) negative BARDET-BIEDL SYNDROME, BBS12-RELATED (BBS12) negative BARDET-BIEDL SYNDROME, BBS1-RELATED (BBS1) negative BARDET-BIEDL SYNDROME, BBS2-RELATED (BBS2) negative BARDET-BIEDL SYNDROME, BBS2-RELATED (BBS2) negative BARDET-BIEDL SYNDROME, BBS5-RELATED (BBS5) negative BARDET-BIEDL SYNDROME, BBS7-RELATED (BBS7) negative BARDET-BIEDL SYNDROME, BBS9-RELATED (BBS9) negative BARDET-BIEDL SYNDROME, TTC8-RELATED (*TTC8*) negative BARE LYMPHOCYTE SYNDROME, CIITA-RELATED (CIITA) negative BARTTER SYNDROME, BSND-RELATED (BSND) negative BARTTER SYNDROME, KCNJ1-RELATED (KCNJ1) negative BARTTER SYNDROME, SLC12A1-RELATED (SLC12A1) negative BATTEN DISEASE, CLN3-RELATED (CLN3) negative BETA-HEMOGLOBINOPATHIES (HBB) negative BETA-KETOTHIOLASE DEFICIENCY (ACAT1) negative BETA-MANNOSIDOSIS (MANBA) negative
BETA-UREIDOPROPIONASE DEFICIENCY (UPB1) negative
BILATERAL FRONTOPARIETAL POLYMICROGYRIA (GPR56) negative

BIOTINIDASE DEFICIENCY (BTD) negative BIOTIN-THIAMINE-RESPONSIVE BASAL GANGLIA DISEASE (BTBGD) (SLC19A3) negative

BLOOM SYNDROME (BLM) negative

BRITTLE CORNEA SYNDROME 1 (ZNF469) negative BRITTLE CORNEA SYNDROME 2 (PRDM5) negative

CANAVAN DISEASE (ASPA) negative CARBAMOYL PHOSPHATE SYNTHETASE I DEFICIENCY (CPS1) negative

CARNITINE DEFICIENCY (SLC22A5) negative
CARNITINE PALMITOYLTRANSFERASE IA DEFICIENCY (CPT1A) negative
CARNITINE PALMITOYLTRANSFERASE II DEFICIENCY (CPT2) negative

CARNITINE-ACYLCARNITINE TRANSLOCASE DEFICIENCY (SLC25A20) negative

CARPENTER SYNDROME (RAB23) negative
CARPILAGE-HAIR HYPOPLASIA (RMRP) negative
CATECHOLAMINERGIC POLYMORPHIC VENTRICULAR TACHYCARDIA (CASQ2) negative
CD59-MEDIATED HEMOLYTIC ANEMIA (CD59) negative

CEP152-RELATED MICROCEPHALY (CEP152) negative
CEREBRAL DYSGENESIS, NEUROPATHY, ICHTHYOSIS, AND PALMOPLANTAR
KERATODERMA (CEDNIK) SYNDROME (SNAP29) negative

CEREBROTENDINOUS XANTHOMATOSIS (CYP27A1) negative CHARCOT-MARIE-TOOTH DISEASE, RECESSIVE INTERMEDIATE C (PLEKHG5) negative CHARCOT-MARIE-TOOTH-DISEASE, TYPE 4D (NDRG1) negative

CHEDIAK-HIGASHI SYNDROME (LYST) negative

CHOREOACANTHOCYTOSIS (VP\$13A) negative CHRONIC GRANULOMATOUS DISEASE, CYBA-RELATED (CYBA) negative

CHRONIC GRANULOMATOUS DISEASE, NCF2-RELATED (NCF2) negative

CILIOPATHIES, RPGRIPIL-RELATED (RPGRIP1L) negative CITRIN DEFICIENCY (SLC25A13) negative CITRULLINEMIA, TYPE 1 (ASS1) negative

CLN10 DISEASE (CTSD) negative

COHEN SYNDROME (VP5138) negative COL11A2-RELATED CONDITIONS (COL11A2) negative COMBINED MALONIC AND METHYLMALONIC ACIDURIA (ACSF3) negative

COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 1 (GFM) negative COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 3 (TSFM) negative COMBINED PITUITARY HORMONE DEFICIENCY 1 (POU1F1) negative

COMBINED PITUITARY HORMONE DEFICIENCY-2 (PROP1) negative

CONGENITAL ADRENAL HYPERPLASIA, 11-BETA-HYDROXYLASE DEFICIENCY (CYP11B1) negative
CONGENITAL ADRENAL HYPERPLASIA, 17-ALPHA-HYDROXYLASE DEFICIENCY

(CYP17A1) negative CONGENITAL ADRENAL HYPERPLASIA, 21-HYDROXYLASE DEFICIENCY

(CYP21A2) negative

CONGENITAL ADRENAL INSUFFICIENCY, CYP11A1-RELATED (CYP11A1) negative

CONGENITAL AMEGAKARYOCYTIC THROMBOCYTOPENIA (MPL) negative
CONGENITAL CHRONIC DIARRHEA (DGAT1) negative
CONGENITAL DISORDER OF GLYCOSYLATION TYPE 1, ALG1-RELATED (ALG1) negative

CONGENITAL DISORDER OF GLYCOSYLATION, TYPE 1A, PMM2-Related (PMM2) negative CONGENITAL DISORDER OF GLYCOSYLATION, TYPE 1B (MPI) negative CONGENITAL DISORDER OF GLYCOSYLATION, TYPE 1C (ALG6) negative

CONGENITAL DISORDER OF GLYCOSYLATION, TYPE 1C (ALGA) negative CONGENITAL DYSERYTHROPOIETIC ANEMIA TYPE 2 (SEC23B) negative CONGENITAL FINNISH NEPHROSIS (NPHS1) negative CONGENITAL HYDROCEPHALUS 1 (CCDC88C) negative CONGENITAL HYPERINSULINISM, KCNJ11-Related (KCNJ11) negative

CONGENITAL INSENSITIVITY TO PAIN WITH ANHIDROSIS (CIPA) (NTRK1) negative CONGENITAL MYASTHENIC SYNDROME, CHAT-RELATED (CHAT) negative CONGENITAL MYASTHENIC SYNDROME, CHRNE-RELATED (CHRNE) negative

CONGENITAL MYASTHENIC SYNDROME, COLQ-RELATED (COLQ) negative CONGENITAL MYASTHENIC SYNDROME, DOK7-RELATED (DOK7) negative CONGENITAL MYASTHENIC SYNDROME, RAPSN-RELATED (RAPSN) negative

CONGENITAL MYASTHENIC SYNDROME, RAPSN-RELATED (RAPSN) negative CONGENITAL NEPHROTIC SYNDROME, PLCE1-RELATED (PLCE1) negative CONGENITAL NEUTROPENIA, G6PC3-RELATED (G6PC3) negative CONGENITAL NEUTROPENIA, HAX1-RELATED (HAX1) negative CONGENITAL NEUTROPENIA, VPS45-RELATED (VPS45) negative

CONGENITAL SECRETORY CHLORIDE DIARRHEA 1 (SLC26A3) negative

CORNEAL DYSTROPHY AND PERCEPTIVE DEAFNESS (SLC4A11) negative CORTICOSTERONE METHYLOXIDASE DEFICIENCY (CYP11B2) negative

COSTEFF SYNDROME (3-METHYLGLUTACONIC ACIDURIA, TYPE 3) (OPA3) negative

CRB1-RELATED RETINAL DYSTROPHIES (CRB1) negative CYSTIC FIBROSIS (CFTR) negative

CYSTINOSIS (CTNS) negative CYTOCHROME C OXIDASE DEFICIENCY, PET100-RELATED (PET100) negative

CYTOCHROME P450 OXIDOREDUCTASE DEFICIENCY (POR) negative D-BIFUNCTIONAL PROTEIN DEFICIENCY (HSD17B4) negative



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Ordering Physician:







05/24/2025 Report Date:

DEAFNESS, AUTOSOMAL RECESSIVE 77 (LOXHD1) negative DIHYDROPTERIDINE REDUCTASE (DHPR) DEFICIENCY (QDPR) negative DONNAI-BARROW SYNDROME (LRP2) negative DUBIN-JOHNSON SYNDROME (ABCC2) negative
DYSKERATOSIS CONGENITA SPECTRUM DISORDERS (TERT) negative
DYSKERATOSIS CONGENITA, RTEL1-RELATED (RTEL1) negative DYSTROPHIC EPIDERMOLYSIS BULLOSA, COL7A1-Related (COL7A1) negative

EARLY INFANTILE EPILEPTIC ENCEPHALOPATHY, CAD-RELATED (CAD) negative EHLERS-DANLOS SYNDROME TYPE VI (PLOD1) negative EHLERS-DANLOS SYNDROME, CLASSIC-LIKE, TNXB-RELATED (TNXB) negative EHLERS-DANLOS SYNDROME, CLASSIC-LIRE, TRAB-RELATED (TAX EHLERS-DANLOS SYNDROME, TYPE VII C (ADAMTS2) negative ELLIS-VAN CREVELD SYNDROME, EVC2-RELATED (EVC2) negative ELLIS-VAN CREVELD SYNDROME, EVC-RELATED (EVC) negative ENHANCED S-CONE SYNDROME (NR2E3) negative EPIMERASE DEFICIENCY (GALACTOSEMIA TYPE III) (GALE) negative EPIPHYSEAL DYSPLASIA, MULTIPLE, 7/DESBUQUOIS DYSPLASIA 1 (CANT1) negative ERCC6-RELATED DISORDERS (ERCC6) negative ERCC8-RELATED DISORDERS (ERCC8) negative ETHYLMALONIC ENCEPHALOPATHY (ETHE1) negative

FACTOR XI DEFICIENCY (F11) negative

FAMILIAL DYSAUTONOMIA (IKBKAP) negative FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS, PRF1-RELATED (PRF1) negative FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS, STX11-RELATED (STX11) negative FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS, STXBP2-RELATED (STXBP2) negative FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS, UNC13D-RELATED (UNC13D) negative
FAMILIAL HYPERCHOLESTEROLEMIA, LDLRAP1-RELATED (LDLRAP1) negative
FAMILIAL HYPERCHOLESTEROLEMIA, LDLRAP1-RELATED (LDLRAP1) negative FAMILIAL HYPERINSULINISM, ABCC8-RELATED (ABCC8) negative FAMILIAL NEPHROGENIC DIABETES INSIPIDUS, AQP2-RELATED (AQP2) negative FANCONI ANEMIA, GROUP A (FANCA) negative FANCONI ANEMIA, GROUP C (FANCC) negative FANCONI ANEMIA, GROUP D2 (FANCD2) negative FANCONI ANEMIA, GROUP E (FANCE) negative FANCONI ANEMIA, GROUP F (FANCF) negative FANCONI ANEMIA, GROUP F (FANCF) negative FANCONI ANEMIA, GROUP I (FANCI) negative FANCONI ANEMIA, GROUP J (BRIP1) negative FANCONI ANEMIA, GROUP J (FANCI) negative FARBER LIPOGRANULOMATOSIS (ASAH1) negative FOVEAL HYPOPLASIA (SLC38A8) negative FRASER SYNDROME 3, GRIP1-RELATED (GRIP1) negative

FRASER SYNDROME, FRAS1-RELATED (FRAS1) negative FRASER SYNDROME, FREM2-RELATED (FREM2) negative FRIEDREICH ATAXIA (FXN) negative FRUCTOSE-1,6-BISPHOSPHATASE DEFICIENCY (FBP1) negative FUCOSIDOSIS, FUCA1-RELATED (FUCA1) negative FUMARASE DEFICIENCY (FH) negative

GABA-TRANSAMINASE DEFICIENCY (ABAT) negative GALACTOKINASE DEFICIENCY (GALACTOSEMIA, TYPE II) (GALK1) negative GALACTOSEMIA (GALT) negative GALACTOSIALIDOSIS (CTSA) negative GAUCHER DISEASE (GBA) negative GCH1-RELATED CONDITIONS (GCH1) negative GCH1/RELATED CONDITIONS (GCH1) negative GDF5-RELATED CONDITIONS (GDF5) negative GERODERMA OSTEODYSPLASTICA (GORAB) negative GITELMAN SYNDROME (SLC12A3) negative GLANZMANN THROMBASTHENIA (ITGB3) negative GLANZMANN I HROMBASI HENIA (I/GB3) negative
GLUTARIC ACIDEMIA, TYPE 1 (GCDH) negative
GLUTARIC ACIDEMIA, TYPE 2A (ETFA) negative
GLUTARIC ACIDEMIA, TYPE 2B (ETFB) negative
GLUTARIC ACIDEMIA, TYPE 2C (ETFDH) negative
GLUTA GLYCOGEN STORAGE DISEASE TYPE 5 (McArdle Disease) (PYGM) negative GLYCOGEN STORAGE DISEASE TYPE IXB (PHKB) negative GLYCOGEN STORAGE DISEASE TYPE IXC (PHKG2) negative GLYCOGEN STORAGE DISEASE, TYPE 1a (G6PC) negative GLYCOGEN STORAGE DISEASE, TYPE 1b (SLC37A4) negative GLYCOGEN STORAGE DISEASE, TYPE 2 (POMPE DISEASE) (GAA) negative GLYCOGEN STORAGE DISEASE, TYPE 3 (AGL) negative GLYCOGEN STORAGE DISEASE, TYPE 4 (GBE1) negative GLYCOGEN STORAGE DISEASE, TYPE 7 (PFKM) negative

GRACILE SYNDROME (BCS1L) negative GUANIDINOACETATE METHYLTRANSFERASE DEFICIENCY (GAMT) negative

HARLEQUIN ICHTHYOSIS (ABCA12) negative HEME OXYGENASE 1 DEFICIENCY (HMOX1) negative HEMOCHROMATOSIS TYPE 2A (HFE2) negative HEMOCHROMATOSIS, TYPE 3, TFR2-Related (TFR2) negative
HEPATOCEREBRAL MITOCHONDRIAL DNA DEPLETION SYNDROME, MPV17-RELATED (MPV17) negative HEREDITARY FRUCTOSE INTOLERANCE (ALDOB) negative HEREDITARY HEMOCHROMATOSIS TYPE 2B (HAMP) negative HEREDITARY SPASTIC PARAPARESIS, TYPE 49 (TECPR2) negative HEREDITARY SPASTIC PARAPARESIS, 17PE 49 (TECPK2) negative HERDITARY SPASTIC PARAPLEGIA, CYP7B1-RELATED (CYP7B1) negative HERMANSKY-PUDLAK SYNDROME, AP3B1-RELATED (AP3B1) negative HERMANSKY-PUDLAK SYNDROME, BLOC1S3-RELATED (BLOC1S3) negative HERMANSKY-PUDLAK SYNDROME, BLOC1S6-RELATED (BLOC1S6) negative HERMANSKY-PUDLAK SYNDROME, HP51-RELATED (HP51) negative HERMANSKY-PUDLAK SYNDROME, HPS3-RELATED (HP53) negative HERMANSKY-PUDLAK SYNDROME, HPS4-RELATED (HP54) negative HERMANSKY-PUDLAK SYNDROME, HPS5-RELATED (HPS5) negative HERMANSKY-PUDLAK SYNDROME, HTSS-RELATED (HPS6) negative HOLOCARBOXYLASE SYNTHETASE DEFICIENCY (HLCs) negative HOMOCYSTINURIA AND MEGALOBLASTIC ANEMIA TYPE CBLG (MTR) negative HOMOCYSTINURIA DUE TO DEFICIENCY OF MTHFR (MTHFR) negative HOMOCYSTINURIA, CBS-RELATED (CBS) negative
HOMOCYSTINURIA, Type cblE (MTRR) negative HYDROLETHALUS SYNDROME (HYLS1) negative HYPER-IGM IMMUNODEFICIENCY (CD40) negative HYPERORNITHINEMIA-HYPERAMMONEMIA-HOMOCITRULLINURIA (HHH SYNDROME) (SLC25A15) negative HYPERPHOSPHATEMIC FAMILIAL TUMORAL CALCINOSIS, GALNT3-RELATED (GALNT3) negative HYPOMYELINATING LEUKODYSTROPHY 12 (VPS11) negative HYPOPHOSPHATASIA, ALPL-RELATED (ALPL) negative

IMERSLUND-GRÄSBECK SYNDROME 2 (AMN) negative IMMUNODEFICIENCY-CENTROMERIC INSTABILITY-FACIAL ANOMALIES (ICF) SYNDROME, DNMT3B-RELATED (DNMT3B) negative IMMUNODEFICIENCY-CENTROMERIC INSTABILITY-FACIAL ANOMALIES (ICF) SYNDROME, ZBTB24-RELATED (ZBTB24) negative INCLUSION BODY MYOPATHY 2 (GNE) negative
INFANTILE CEREBRAL AND CEREBELLAR ATROPHY (MED17) negative INFANTILE NEPHRONOPHTHISIS (INVS) negative INFANTILE NEPHRONOPHI HISIS (INVS) negative
INFANTILE NEUROAXONAL DYSTROPHY (PLA2G6) negative
ISOLATED ECTOPIA LENTIS (ADAMTSL4) negative
ISOLATED SULFITE OXIDASE DEFICIENCY (SUOX) negative
ISOLATED THYROID-STIMULATING HORMONE DEFICIENCY (TSHB) negative ISOVALERIC ACIDEMIA (IVD) negative

JOHANSON-BLIZZARD SYNDROME (UBR1) negative
JOUBERT SYNDROME 2 / MECKEL SYNDROME 2 (TMEM216) negative
JOUBERT SYNDROME AND RELATED DISORDERS (JSRD), TMEM67-RELATED JOUBERT SYNDROME, AHI1-RELATED (AHI1) negative
JOUBERT SYNDROME, ARL13B-RELATED (ARL13B) negative JOUBERT SYNDROME, B9D1-RELATED (B9D1) negative JOUBERT SYNDROME, B9D2-RELATED (B9D2) negative JOUBERT SYNDROME, C2CD3-RELATED/OROFACIODIGITAL SYNDROME 14 (C2CD3) negative JOUBERT SYNDROME, CC2D2A-RELATED/COACH SYNDROME (CC2D2A) negative JOUBERT SYNDROME, CEP104-RELATED/COACH 31NDROME (CED2A) Regative
JOUBERT SYNDROME, CEP120-RELATED/CF04) negative
JOUBERT SYNDROME, CEP120-RELATED/SHORT-RIB THORACIC DYSPLASIA 13 WITH OR
WITHOUT POLYDACTYLY (CEP120) negative
JOUBERT SYNDROME, CEP41-RELATED (CEP41) negative
JOUBERT SYNDROME, CPLANE1-RELATED / OROFACIODIGITAL SYNDROME 6 (CPLANE1) negative (CPLANEL) negative
JOUBERT SYNDROME, CSPP1-RELATED (CSPP1) negative
JOUBERT SYNDROME, INPP5E-RELATED (INPP5E) negative
JUNCTIONAL EPIDERMOLYSIS BULLOSA, COL17A1-RELATED (COL17A1) negative
JUNCTIONAL EPIDERMOLYSIS BULLOSA, ITGA6-RELATED (ITGA6) negative JUNCTIONAL EPIDERMOLYSIS BULLOSA, ITGB4-RELATED (ITGB4) negative JUNCTIONAL EPIDERMOLYSIS BULLOSA, LAMB3-RELATED (LAMB3) negative JUNCTIONAL EPIDERMOLYSIS BULLOSA, LAMC2-RELATED (LAMC2) negative JUNCTIONAL EPIDERMOLYSIS BULLOSA/LARYNGOONYCHOCUTANEOUS SYNDROME, LAMA3-RELATED (LAMA3) negative

KRABBE DISEASE (GALC) negative

LAMELLAR ICHTHYOSIS, TYPE 1 (TGM1) negative



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LARON SYNDROME (GHR) negative
LEBER CONGENITAL AMAUROSIS 2 (RPE65) negative

LEBER CONGENITAL AMAUROSIS TYPE AIPL1 (AIPL1) negative

LEBER CONGENITAL AMAUROSIS TYPE GUCYZD (GUCYZD) negative
LEBER CONGENITAL AMAUROSIS TYPE TULP1 (TULP1) negative
LEBER CONGENITAL AMAUROSIS, IQCB1-RELATED/SENIOR-LOKEN SYNDROME 5

LEBER CONGENITAL AMAUROSIS, TYPE CEP290 (CEP290) negative

LEBER CONGENITAL AMAUROSIS, TYPE LCA5 (LCA5) negative LEBER CONGENITAL AMAUROSIS, TYPE RDH12 (RDH12) negative

LEIGH SYNDROME, FRENCH-CANADIAN TYPE (LRPPRC) negative LETHAL CONGENITAL CONTRACTURE SYNDROME 1 (GLE1) negative

LEUKOENCEPHALOPATHY WITH VANISHING WHITE MATTER (EIF2B5) negative LEUKOENCEPHALOPATHY WITH VANISHING WHITE MATTER, EIF2B1-RELATED

(EIF2B1) negative LEUKOENCEPHALOPATHY WITH VANISHING WHITE MATTER, EIF2B2-RELATED (EIF2B2) negative LEUKOENCEPHALOPATHY WITH VANISHING WHITE MATTER, EIF2B3-RELATED

(EIF2B3) negative LEUKOENCEPHALOPATHY WITH VANISHING WHITE MATTER, EIF2B4-RELATED

(EIF2B4) negative
LIG4 SYNDROME (LIG4) negative
LIMB-GIRDLE MUSCULAR DYSTROPHY TYPE 8 (TRIM32) negative

LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2A (CAPN3) negative

LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 28 (DYSF) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2C (SGCG) negative

LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2D (SGCA) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2D (SGCA) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2E (SGCB) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2F (SGCD) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2I (FKRP) negative

LIPOAMIDE DEHYDROGENASE DEFICIENCY (DIHYDROLIPOAMIDE DEHYDROGENASE DEFICIENCY) (DLD) negative LIPOID ADRENAL HYPERPLASIA (STAR) negative

LIPOPROTEIN LIPASE DEFICIENCY (LPL) negative

LONG CHAIN 3-HYDROXYACYL-COA DEHYDROGENASE DEFICIENCY (HADHA) negative LRAT-RELATED CONDITIONS (LRAT) negative LUNG DISEASE, IMMUNODEFICIENCY, AND CHROMOSOME BREAKAGE SYNDROME

(LICS) (NSMCE3) negative
LYSINURIC PROTEIN INTOLERANCE (SLC7A7) negative

MALONYL-COA DECARBOXYLASE DEFICIENCY (MLYCD) negative MAPLE SYRUP URINE DISEASE, TYPE 1A (BCKDHA) negative MAPLE SYRUP URINE DISEASE, TYPE 1B (BCKDHB) negative

MAPLE SYRUP URINE DISEASE, TYPE 2 (DBT) negative MCKUSICK-KAUFMAN SYNDROME (MKKS) negative

MECKEL SYNDROME 7/NEPHRONOPHTHISIS 3 (NPHP3) negative

MECKEL-GRUBER SYNDROME, TYPE 1 (MKS1) negative

MECR-RELATED NEUROLOGIC DISORDER (MECR) negative MEDIUM CHAIN ACYL-CoA DEHYDROGENASE DEFICIENCY (ACADM) negative

MEDNIK SYNDROME (AP1S1) negative

MEGALENCEPHALIC LEUKOENCEPHALOPATHY WITH SUBCORTICAL CYSTS

(MLC1) negative
MEROSIN-DEFICIENT MUSCULAR DYSTROPHY (LAMA2) negative

METABOLIC ENCEPHALOPATHY AND ARRHYTHMIAS, TANGO2-RELATED

(TANGO2) negative METACHROMATIC LEUKODYSTROPHY, ARSA-RELATED (ARSA) negative METACHROMATIC LEUKODYSTROPHY, PSAP-RELATED (PSAP) negative

METHYLMALONIC ACIDEMIA AND HOMOCYSTINURIA TYPE CBLF (LMBRD1) negative

METHYLMALONIC ACIDEMIA, MCEE-RELATED (MCEE) negative
METHYLMALONIC ACIDURIA AND HOMOCYSTINURIA, TYPE CBLC (MMACHC) negative
METHYLMALONIC ACIDURIA AND HOMOCYSTINURIA, TYPE CblD (MMADHC) negative

METHYLMALONIC ACIDURIA, MMAA-RELATED (MMAA) negative METHYLMALONIC ACIDURIA, MMAB-RELATED (MMAB) negative METHYLMALONIC ACIDURIA, TYPE MUT(0) (MUT) negative

MEVALONIC KINASE DEFICIENCY (MVK) negative
MICROCEPHALIC OSTEODYSPLASTIC PRIMORDIAL DWARFISM TYPE II (PCNT) negative
MICROPHTHALMIA / ANOPHTHALMIA, VSX2-RELATED (VSX2) negative

MITOCHONDRIAL COMPLEX 1 DEFICIENCY, ACAD9-RELATED (ACAD9) negative

MITOCHONDRIAL COMPLEX 1 DEFICIENCY, NDUFAF5-RELATED (NDUFAF5) negative MITOCHONDRIAL COMPLEX 1 DEFICIENCY, NDUFS6-RELATED (NDUFS6) negative MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 1 (NDUFS4) negative

MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 10 (NDUFAF2) negative MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 17 (NDUFAF6) negative MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 19 (FOXRED1) negative

MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 3 (NDUFS7) negative MITOCHONDRIAL COMPLEX I DEFICIENCY, NUCLEAR TYPE 4 (NDUFV1) negative MITOCHONDRIAL COMPLEX IV DEFICIENCY, NUCLEAR TYPE 2, SCO2-RELATED

(SCO2) negative

MITOCHONDRIAL COMPLEX IV DEFICIENCY, NUCLEAR TYPE 6 (COX15) negative MITOCHONDRIAL DNA DEPLETION SYNDROME 2 (TK2) negative

MITOCHONDRIAL DNA DEPLETION SYNDROME 3 (DGUOK) negative MITOCHONDRIAL MYOPATHY AND SIDEROBLASTIC ANEMIA (MLASA1) (PUS1) negative

MITOCHONDRIAL TRIFUNCTIONAL PROTEIN DEFICIENCY, HADHB-RELATED

MOLYBDENUM COFACTOR DEFICIENCY TYPE B (MOCS2) negative MOLYBDENUM COFACTOR DEFICIENCY, TYPE A (MOCS1) negative

MUCOLIPIDOSIS II/III A (GNPTAB) negative

MUCOLIPIDOSIS III GAMMA (GNPTG) negative
MUCOLIPIDOSIS, TYPE IV (MCOLN1) negative
MUCOPOLYSACCHARIDOSIS, TYPE I (HURLER SYNDROME) (IDUA) negative

MUCOPOLYSACCHARIDOSIS, TYPE III A (SANFILIPPO A) (SGSH) negative MUCOPOLYSACCHARIDOSIS, TYPE III B (SANFILIPPO B) (NAGLU) negative MUCOPOLYSACCHARIDOSIS, TYPE III C (SANFILIPPO C) (HGSNAT) negative

MUCOPOLYSACCHARIDOSIS, TYPE III D (SANFILIPPO D) (GNS) negative

MUCOPOLYSACCHARIDOSIS, TYPE IV A (MORQUIO SYNDROME) (GALNS) negative MUCOPOLYSACCHARIDOSIS, TYPE IV B/GM1 GANGLIOSIDOSIS (GLB1) negative MUCOPOLYSACCHARIDOSIS, TYPE IX (HYAL1) negative

MUCOPOLYSACCHARIDOSIS, TYPE VI (MAROTEAUX-LAMY) (ARSB) negative

MUCOPOLYSACCHARIDOSIS, TYPE VII (GUSB) negative
MULIBREY NANISM (TR/M37) negative
MULTIPLE PTERYGIUM SYNDROME, CHRNG-RELATED/ESCOBAR SYNDROME

(CHRNG) negative
MULTIPLE SULFATASE DEFICIENCY (SUMF1) negative
MUSCLE-EYE-BRAIN DISEASE, POMGNT1-RELATED (POMGNT1) negative MUSCULAR DYSTROPHY-DYSTROGLYCANOPATHY (RXYLT1) negative

MUSK-RELATED CONGENITAL MYASTHENIC SYNDROME (MUSK) negative MYONEUROGASTROINTESTINAL ENCEPHALOPATHY (MNGIE) (TYMP) negative

MYOTONIA CONGENITA (CLCN1) negative

N-ACETYLGLUTAMATE SYNTHASE DEFICIENCY (NAGS) negative

NEMALINE MYOPATHY, NEB-RELATED (NEB) negative
NEPHRONOPHTHISIS 1 (NPHP1) negative
NEURONAL CEROID LIPOFUSCINOSIS, CLN5-RELATED (CLN5) negative
NEURONAL CEROID LIPOFUSCINOSIS, CLN6-RELATED (CLN6) negative

NEURONAL CEROID LIPOFUSCINOSIS, CLN8-RELATED (CLN8) negative NEURONAL CEROID LIPOFUSCINOSIS, MFSD8-RELATED (MFSD8) negative NEURONAL CEROID LIPOFUSCINOSIS, PPT1-RELATED (PPT1) negative

NEURONAL CEROID LIPOFUSCINOSIS, PP11-RELATED (PP11) negative NEURONAL CEROID LIPOFUSCINOSIS, TPP1-RELATED (TPP1) negative NGLY1-CONGENITAL DISORDER OF GLYCOSYLATION (NGLY1) negative NIEMANN-PICK DISEASE, TYPE C1 / D (NPC1) negative NIEMANN-PICK DISEASE, TYPE C2 (NPC2) negative

NIEMANN-PICK DISEASE, TYPES A / B (SMPD1) negative
NIJMEGEN BREAKAGE SYNDROME (NBN) negative
NON-SYNDROMIC HEARING LOSS, GJB2-RELATED (GJB2) negative

NON-SYNDROMIC HEARING LOSS, MYO15A-RELATED (MYO15A) negative NONSYNDROMIC HEARING LOSS, OTOA-RELATED (OTOA) negative NONSYNDROMIC HEARING LOSS, OTOF-RELATED (OTOF) negative

NONSYNDROMIC HEARING LOSS, PJVK-RELATED (PJVK) negative

NONSYNDROMIC HEARING LOSS, SYNE4-RELATED (SYNE4) negative NONSYNDROMIC HEARING LOSS, TMC1-RELATED (TMC1) negative

NONSYNDROMIC HEARING LOSS, TMPRSS3-RELATED (TMPRSS3) negative

NONSYNDROMIC INTELLECTUAL DISABILITY (CC2D1A) negative

NORMOPHOSPHATEMIC TUMORAL CALCINOSIS (SAMD9) negative

OCULOCUTANEOUS ALBINISM TYPE III (TYRP1) negative
OCULOCUTANEOUS ALBINISM TYPE IV (SLC45A2) negative

OCULOCUTANEOUS ALBINISM, OCA2-RELATED (OCA2) negative

OCULOCUTANEOUS ALBINISM, TYPES 1A AND 1B (TYR) negative

ODONTO-ONYCHO-DERMAL DYSPLASIA / SCHOPF-SCHULZ-PASSARGE SYNDROME (WNT10A) negative

OMENN SYNDROME, RAG2-RELATED (RAG2) negative

ORNITHINE AMINOTRANSFERASE DEFICIENCY (OAT) negative OSTEOGENESIS IMPERFECTA TYPE VII (CRTAP) negative

OSTEOGENESIS IMPERFECTA TYPE VIII (P3H1) negative

OSTEOGENESIS IMPERFECTA TYPE XI (FKBP10) negative
OSTEOGENESIS IMPERFECTA TYPE XIII (BMP1) negative
OSTEOPETROSIS, INFANTILE MALIGNANT, TCIRG1-RELATED (TCIRG1) negative

OSTEOPETROSIS, OSTM1-RELATED (OSTM1) negative

PANTOTHENATE KINASE-ASSOCIATED NEURODEGENERATION (PANK2) negative

PAPILLON LEFÈVRE SYNDROME (CTSC) negative PARKINSON DISEASE 15 (FBXO7) negative

PENDRED SYNDROME (SLC26A4) negative

PERLMAN SYNDROME (DIS3L2) negative PGM3-CONGENITAL DISORDER OF GLYCOSYLATION (PGM3) negative PHENYLKETONURIA (PAH) negative

PIGN-CONGENITAL DISORDER OF GLYCOSYLATION (PIGN) negative

PITUITARY HORMONE DEFICIENCY, COMBINED 3 (LHX3) negative POLG-RELATED DISORDERS (POLG) negative





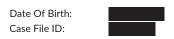
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POLYCYSTIC KIDNEY DISEASE, AUTOSOMAL RECESSIVE (PKHD1) negative PONTOCEREBELLAR HYPOPLASIA, EXOSC3-RELATED (EXOSC3) negative PONTOCEREBELLAR HYPOPLASIA, RARS2-RELATED (RARS2) negative PONTOCEREBELLAR HYPOPLASIA, TSEN2-RELATED (TSEN2) negative PONTOCEREBELLAR HYPOPLASIA, TSEN54-RELATED (TSEN54) negative PONTOCEREBELLAR HYPOPLASIA, TYPE 1A (VRK1) negative PONTOCEREBELLAR HYPOPLASIA, TYPE 2D (SEPSECS) negative PONTOCEREBELLAR HYPOPLASIA, VPS53-RELATED (VPS53) negative PRIMARY CILIARY DYSKINESIA, CCDC103-RELATED (CCDC103) negative PRIMARY CILIARY DYSKINESIA, CCDC39-RELATED (CCDC39) negative PRIMARY CILIARY DYSKINESIA, DNAH11-RELATED (DNAH11) negative PRIMARY CILIARY DYSKINESIA, DNAH5-RELATED (DNAH5) negative PRIMARY CILIARY DYSKINESIA, DNAI1-RELATED (DNAI1) negative PRIMARY CILIARY DYSKINESIA, DNAI2-RELATED (DNAI2) negative
PRIMARY CONGENITAL GLAUCOMA/PETERS ANOMALY (CYP1B1) see first page
PRIMARY HYPEROXALURIA, TYPE 1 (AGXT) negative
PRIMARY HYPEROXALURIA, TYPE 2 (GRHPR) negative PRIMARY HYPEROXALURIA, TYPE 3 (HOGA1) negative PRIMARY MICROCEPHALY 1, AUTOSOMAL RECESSIVE (MCPH1) negative PROGRESSIVE EARLY-ONSET ENCEPHALOPATHY WITH BRAIN ATROPHY AND THIN CORPUS CALLOSUM (TBCD) negative
PROGRESSIVE FAMILIAL INTRAHEPATIC CHOLESTASIS, ABCB4-RELATED (ABCB4) negative
PROGRESSIVE FAMILIAL INTRAHEPATIC CHOLESTASIS, TYPE 1 (PFIC1) (ATP8B1) negative PROGRESSIVE FAMILIAL INTRAHEPATIC CHOLESTASIS, TYPE 2 (ABCB11) negative PROGRESSIVE FAMILIAL INTRAHEPATIC CHOLESTASIS, TYPE 4 (PFIC4) (TJP2) negative PROGRESSIVE PSEUDORHEUMATOID DYSPLASIA (CCN6) negative

PROLIDASE DEFICIENCY (PEPD) negative
PROPIONIC ACIDEMIA, PCCA-RELATED (PCCA) negative
PROPIONIC ACIDEMIA, PCCB-RELATED (PCCB) negative
PSEUDOXANTHOMA ELASTICUM (ABCC6) negative

PTERIN-4 ALPHA-CARBINOLAMINE DEHYDRATASE (PCD) DEFICIENCY (PCBD1) negative PYCNODYSOSTOSIS (CTSK) negative PYRIDOXAL 5'-PHOSPHATE-DEPENDENT EPILEPSY (PNPO) negative

PYRIDOXINE-DEPENDENT EPILEPSY (ALDH7A1) negative

PYRUVATE CARBOXYLASE DEFICIENCY (PC) negative PYRUVATE DEHYDROGENASE DEFICIENCY, PDHB-RELATED (PDHB) negative

REFSUM DISEASE, PHYH-RELATED (PHYH) negative RENAL TUBULAR ACIDOSIS AND DEAFNESS, ATP6V1B1-RELATED (ATP6V1B1) negative RENAL TUBULAR ACIDOSIS, PROXIMAL, WITH OCULAR ABNORMALITIES AND MENTAL RETARDATION (SLC4A4) negative RETINITIS PIGMENTOSA 25 (EYS) negative RETINITIS PIGMENTOSA 26 (CERKL) negative RETINITIS PIGMENTOSA 28 (FAM161A) negative RETINITIS PIGMENTOSA 36 (PRCD) negative RETINITIS PIGMENTOSA 59 (DHDDS) negative RETINITIS PIGMENTOSA 62 (MAK) negative RHIZOMELIC CHONDRODYSPLASIA PUNCTATA, TYPE 1 (PEX7) negative RHIZOMELIC CHONDRODYSPLASIA PUNCTATA, TYPE 2 (GNPAT) negative RHIZOMELIC CHONDRODYSPLASIA PUNCTATA, TYPE 3 (AGPS) negative RLBP1-RELATED RETINOPATHY (*RLBP1*) negative ROBERTS SYNDROME (*ESCO2*) negative RYR1-RELATED CONDITIONS (*RYR1*) negative

SALLA DISEASE (SLC17A5) negative SANDHOFF DISEASE (HEXB) negative SCHIMKE IMMUNOOSSEOUS DYSPLASIA (SMARCAL1) negative SCHINDLER DISEASE (NAGA) negative SEGAWA SYNDROME, TH-RELATED (TH) negative SENIOR-LOKEN SYNDROME, IH-RELATED (IH) negative
SENIOR-LOKEN SYNDROME 4/NEPHRONOPHTHISIS 4 (NPHP4) negative
SEPIAPTERIN REDUCTASE DEFICIENCY (SPR) negative
SEVERE COMBINED IMMUNODEFICIENCY (SCID), CD3D-RELATED (CD3D) negative
SEVERE COMBINED IMMUNODEFICIENCY (SCID), CD3E-RELATED (CD3E) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), FOXN1-RELATED (FOXN1) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), IKBKB-RELATED (IKBKB) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), IL7R-RELATED (IL7R) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), JAK3-RELATED (JAK3) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), PTPRC-RELATED (PTPRC) negative SEVERE COMBINED IMMUNODEFICIENCY (SCID), RAG1-RELATED (RAG1) negative SEVERE COMBINED IMMUNODEFICIENCY, ADA-Related (ADA) negative SEVERE COMBINED IMMUNODEFICIENCY, TYPE ATHABASKAN (DCLRE1C) negative SHORT-RIB THORACIC DYSPLASIA 3 WITH OR WITHOUT POLYDACTYLY (DYNC2H1) negative SHWACHMAN-DIAMOND SYNDROME, SBDS-RELATED (SBDS) negative SIALIDOSIS (NEU1) negative SJÖGREN-LARSSON SYNDROME (ALDH3A2) negative SMITH-LEMLI-OPITZ SYNDROME (DHCR7) negative SPASTIC PARAPLEGIA, TYPE 15 (ZFYVE26) negative

SPASTIC TETRAPLEGIA, THIN CORPUS CALLOSUM, AND PROGRESSIVE MICROCEPHALY (SPATCCM) (SLC1A4) negative SPG11-RELATED CONDITIONS (SPG11) negative SPINAL MUSCULAR ATROPHY (SMN1) negative SMN1: Two copies; g.27134T>G: absent; the absence of the g.27134T>G variant decreases the chance to be a silent (2+0) carrier. SPINAL MUSCULAR ATROPHY WITH RESPIRATORY DISTRESS TYPE 1 (IGHMBP2) negative SPINOCEREBELLAR ATAXIA, AUTOSOMAL RECESSIVE 10 (ANO10) negative SPINOCEREBELLAR ATAXIA, AUTOSOMAL RECESSIVE 12 (WWOX) negative SPONDYLOCOSTAL DYSOSTOSIS 1 (DLL3) negative SPONDYLOTHORACIC DYSOSTOSIS, MESP2-Related (MESP2) negative STEEL SYNDROME (COL27A1) negative
STEROID-RESISTANT NEPHROTIC SYNDROME (NPHS2) negative
STUVE-WIEDEMANN SYNDROME (LIFR) negative SURF1-RELATED CONDITIONS (SURF1) negative

SURFACTANT DYSFUNCTION, ABCA3-RELATED (ABCA3) negative TAY-SACHS DISEASE (HEXA) negative
TBCE-RELATED CONDITIONS (TBCE) negative
THIAMINE-RESPONSIVE MEGALOBLASTIC ANEMIA SYNDROME (SLC19A2) negative THYROID DYSHORMONOGENESIS 1 (SLC5A5) negative THYROID DYSHORMONOGENESIS 2A (TPO) negative THYROID DYSHORMONOGENESIS 3 (TG) negative THYROID DYSHORMONOGENESIS 6 (DUOX2) negative TRANSCOBALAMIN II DEFICIENCY (TCN2) negative TRICHOHEPATOENTERIC SYNDROME, SKIC2-RELATED (SKIC2) negative TRICHOHEPATOENTERIC SYNDROME, TTC37-RELATED (TTC37) negative TRICHOTHIODYSTROPHY 1/XERODERMA PIGMENTOSUM, GROUP D (ERCC2) negative TRIMETHYLAMINURIA (FMO3) negative TRIPLE A SYNDROME (AAAS) negative TSHR-RELATED CONDITIONS (TSHR) negative TYROSINEMIA TYPE III (*IPD*) negative TYROSINEMIA, TYPE 1 (*FAH*) negative TYROSINEMIA, TYPE 2 (*TAT*) negative

USHER SYNDROME, TYPE 1B (MYO7A) negative USHER SYNDROME, TYPE 1C (USH1C) negative USHER SYNDROME, TYPE 1D (CDH23) negative USHER SYNDROME, TYPE 1F (PCDH15) negative USHER SYNDROME, TYPE 1J/DEAFNESS, AUTOSOMAL RECESSIVE, 48 (CIB2) negative USHER SYNDROME, TYPE 2A (USH2A) negative USHER SYNDROME, TYPE 2C (ADGRV1) negative USHER SYNDROME, TYPE 3 (CLRN1) negative

VERY LONG-CHAIN ACYL-CoA DEHYDROGENASE DEFICIENCY (ACADVL) negative VICI SYNDROME (EPG5) negative VITAMIN D-DEPENDENT RICKETS, TYPE 1A (CYP27B1) negative VITAMIN D-RESISTANT RICKETS TYPE 2A (VDR) negative VLDLR-ASSOCIATED CEREBELLAR HYPOPLASIA (VLDLR) negative

WALKER-WARBURG SYNDROME, CRPPA-RELATED (CRPPA) negative WALKER-WARBURG SYNDROME, FKTN-RELATED (FKTN) negative WALKER-WARBURG SYNDROME, LARGE1-RELATED (LARGE1) negative WALKER-WARBURG SYNDROME, POMT1-RELATED (POMT1) negative WALKER-WARBURG SYNDROME, POMT2-RELATED (POMT2) negative WARSAW BREAKAGE SYNDROME (DDX11) negative WERNER SYNDROME (WRN) negative
WILSON DISEASE (ATP7B) negative
WOLCOTT-RALLISON SYNDROME (EIF2AK3) negative WOLMAN DISEASE (LIPA) negative
WOODHOUSE-SAKATI SYNDROME (DCAF17) negative

XERODERMA PIGMENTOSUM VARIANT TYPE (POLH) negative XERODERMA PIGMENTOSUM, GROUP A (XPA) negative XERODERMA PIGMENTOSUM, GROUP C (XPC) negative

ZELLWEGER SPECTRUM DISORDER, PEX13-RELATED (PEX13) negative ZELLWEGER SPECTRUM DISORDER, PEX16-RELATED (PEX16) negative ZELLWEGER SPECTRUM DISORDER, PEX5-RELATED (PEX5) negative ZELLWEGER SPECTRUM DISORDERS, PEX10-RELATED (PEX10) negative ZELLWEGER SPECTRUM DISORDERS, PEX12-RELATED (PEX12) negative ZELLWEGER SPECTRUM DISORDERS, PEX1-RELATED (PEX1) negative ZELLWEGER SPECTRUM DISORDERS, PEX26-RELATED (PEX26) negative ZELLWEGER SPECTRUM DISORDERS, PEX26-RELATED (PEX26) negative ZELLWEGER SPECTRUM DISORDERS, PEX26-RELATED (PEX27) negative



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 ${\bf Z}$ ZELLWEGER SPECTRUM DISORDERS, PEX6-RELATED (PEX6) ${\bf negative}$



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Testing Methodology, Limitations, and Comments:

Next-generation sequencing (NGS)

Sequencing library prepared from genomic DNA isolated from a patient sample is enriched for targets of interest using standard hybridization capture protocols and PCR amplification (for targets specified below). NGS is then performed to achieve the standards of quality control metrics, including a minimum coverage of 99% of targeted regions at 20X sequencing depth. Sequencing data is aligned to human reference sequence, followed by deduplication, metric collection and variant calling (coding region +/- 20bp). Variants are then classified according to ACMGG/AMP standards of interpretation using publicly available databases including but not limited to ENSEMBL, HGMD Pro, ClinGen, ClinVar, 1000G, ESP and gnomAD. Variants predicted to be pathogenic or likely pathogenic for the specified diseases are reported. It should be noted that the data interpretation is based on our current understanding of the genes and variants at the time of reporting. Putative positive sequencing variants that do not meet internal quality standards or are within highly homologous regions are confirmed by Sanger sequencing or gene-specific long-range PCR as needed prior to reporting.

Copy Number Variant (CNV) analysis is limited to deletions involving two or more exons for all genes on the panel, in addition to specific known recurrent single-exon deletions. CNVs of small size may have reduced detection rate. This method does not detect gene inversions, single-exonic and sub-exonic deletions (unless otherwise specified), and duplications of all sizes (unless otherwise specified). Additionally, this method does not define the exact breakpoints of detected CNV events. Confirmation testing for copy number variation is performed by specific PCR, Multiplex Ligation-dependent Probe Amplification (MLPA), next generation sequencing, or other methodology.

This test may not detect certain variants due to local sequence characteristics, high/low genomic complexity, homologous sequence, or allele dropout (PCR-based assays). Variants within noncoding regions (promoter, 5'UTR, 3'UTR, deep intronic regions, unless otherwise specified), small deletions or insertions larger than 25bp, low-level mosaic variants, structural variants such as inversions, and/or balanced translocations may not be detected with this technology.

SPECIAL NOTES

For ABCC6, sequencing variants in exons 1-7 are not detected due to the presence of regions of high homology.

For CFTR, when the CFTR R117H variant is detected, reflex analysis of the polythymidine variations (5T, 7T and 9T) at the intron 9 branch/acceptor site of the CFTR gene will be performed. Multi-exon duplication analysis is included.

For CYP21A2, targets were enriched using long-range PCR amplification, followed by next generation sequencing. Duplication analysis will only be performed and reported when c.955C>T (p.Q319*) is detected. Sequencing and CNV analysis may have reduced sensitivity, if variants result from complex rearrangements, in trans with a gene deletion, or CYP21A2 gene duplication on one chromosome and deletion on the other chromosome. This analysis cannot detect sequencing variants located on the CYP21A2 duplicated copy.

For DDX11, sequencing variants in exons 7-11 and CNV for the entire gene are not analyzed due to high sequence homology.

For GJB2, CNV analysis of upstream deletions of GJB6-D13S1830 (309kb deletion) and GJB6-D13S1854 (232kb deletion) is included.

For HBA1/HBA2, CNV analysis is offered to detect common deletions of -alpha3.7, -alpha4.2, --MED, --SEA, --FIL, --THAI, --alpha20.5, and/or HS-40.

For OTOA, sequencing variants in exons 25-29 and CNV in exons 21-29 are not analyzed due to high sequence homology.

For RPGRIP1L, variants in exon 23 are not detected due to assay limitation.

For SAMD9, only p.K1495E variant will be analyzed and reported.

Friedreich Ataxia (FXN)

The GAA repeat region of the FXN gene is assessed by trinucleotide PCR assay and capillary electrophoresis. Variances of +/-1 repeat for normal alleles and up to +/-3 repeats for premutation alleles may occur. For fully penetrant expanded alleles, the precise repeat size cannot be determined, therefore the approximate allele size is reported. Sequencing and copy number variants are analyzed by next-generation sequencing analysis.

Friedreich Ataxia Repeat Categories

Categories	GAA Repeat Sizes
Normal	<34
Premutation	34 - 65
Full	>65



Patient Name: **Donor** 7917





Date Of Birth:

Case File ID:

Clinic Information: Fairfax Cryobank

Report Date: 05/24/2025

Test Information

Ordering Physician:

Spinal Muscular Atrophy (SMN1)

The total combined copy number of SMN1 and SMN2 exon 7 is quantified based on NGS read depth. The ratio of SMN1 to SMN2 is calculated based on the read depth of a single nucleotide that distinguishes these two genes in exon 7. In addition to copy number analysis, testing for the presence or absence of a single nucleotide polymorphism (g.27134T>G in intron 7 of SMN1) associated with the presence of a SMN1 duplication allele is performed using NGS.

Ethnicity	Two SMN1 copies carrier risk before g.27134T>G testing	Carrier risk after g.27134T>G testing	
		g.27134T>G ABSENT	g.27134T>G PRESENT
Caucasian	1 in 632	1 in 769	1 in 29
Ashkenazi Jewish	1 in 350	1 in 580	LIKELY CARRIER
Asian	1 in 628	1 in 702	LIKELY CARRIER
African-American	1 in 121	1 in 396	1 in 34
Hispanic	1 in 1061	1 in 1762	1 in 140

Variant Classification

Only pathogenic or likely pathogenic variants are reported. Other variants including benign variants, likely benign variants, variants of uncertain significance, or inconclusive variants identified during this analysis may be reported in certain circumstances. Our laboratory's variant classification criteria are based on the ACMG and internal guidelines and our current understanding of the specific genes. This interpretation may change over time as more information about a gene and/or variant becomes available. Natera and its lab partner(s) may reclassify variants at certain intervals but may not release updated reports without a specific request made to Natera by the ordering provider. Natera may disclose incidental findings if deemed clinically pertinent to the test performed.

Negative Results

A negative carrier screening result reduces the risk for a patient to be a carrier of a specific disease but does not completely rule out carrier status. Please visit https://www.natera.com/panel-option/h-all/ for a table of carrier rates, detection rates, residual risks and promised variants/exons per gene. Carrier rates before and after testing vary by ethnicity and assume a negative family history for each disease screened and the absence of clinical symptoms in the patient. Any patient with a family history for a specific genetic disease will have a higher carrier risk prior to testing and, if the disease-causing mutation in their family is not included on the test, their carrier risk would remain unchanged. Genetic counseling is recommended for patients with a family history of genetic disease so that risk figures based on actual family history can be determined and discussed along with potential implications for reproduction. Horizon carrier screening has been developed to identify the reproductive risks for monogenic inherited conditions. Even when one or both members of a couple screen negative for pathogenic variants in a specific gene, the disease risk for their offspring is not zero. There is still a low risk for the condition in their offspring due to a number of different mechanisms that are not detected by Horizon including, but not limited to, pathogenic variant(s) in the tested gene or in a different gene not included on Horizon, pathogenic variant(s) in an upstream regulator, uniparental disomy, de novo mutation(s), or digenic or polygenic inheritance.

Additional Comments

These analyses generally provide highly accurate information regarding the patient's carrier status. Despite this high level of accuracy, it should be kept in mind that there are many potential sources of diagnostic error, including misidentification of samples, polymorphisms, or other rare genetic variants that interfere with analysis. Families should understand that rare diagnostic errors may occur for these reasons.

