

Donor 7092

Genetic Testing Summary

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

Last Updated: 12/19/24

Donor Reported Ancestry: English, Irish, Scottish, Costa Rican Jewish Ancestry: No

Genetic Test*	Result	Comments/Donor's Residual
		Risk**

Chromosome analysis (karyotype)	Normal male karyotype	No evidence of clinically significant chromosome abnormalities
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.	Carrier: Maple Syrup Urine Disease, Type 1A (BCKDHA) Carrier: Primary Microcephaly 1 (MCPH1) Negative for other genes sequenced.	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.

DONOR 7092 Patient Name:

Date Of Birth:

Gender:

Ethnicity: Northern European

Caucasian

N/A

7092

N/A

Patient ID: Medical Record #:

Collection Kit:

Accession ID: Case File ID:

Test Information

Ordering Physician:

Clinic Information: Fairfax Cryobank

Phone: N/A

Report Date: 05/23/2024 05/09/2024 Sample Collected: Sample Received: 05/10/2024

Sample Type: 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 Maple Syrup Urine Disease, Type 1A

Positive for the likely pathogenic variant c.761C>A (p.A254D) in the BCKDHA gene. If this individual's partner is a carrier for MAPLE SYRUP URINE DISEASE, TYPE 1A, their chance to have a child with this condition may be as high as 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

CARRIER for Primary Microcephaly 1, Autosomal Recessive

Positive for the likely pathogenic variant c.1935+1_1935+5del in the MCPH1 gene. If this individual's partner is a carrier for PRIMARY MICROCEPHALY 1, AUTOSOMAL RECESSIVE, their chance to have a child with this condition may be as high as 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

Negative for 547 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.

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Patient Name: **DONOR 7092** **Test Information**

Ordering Physician:

Clinic Information: Fairfax Cryobank

Date Of Birth: Case File ID:

Report Date:

05/23/2024

MAPLE SYRUP URINE DISEASE, TYPE 1A

Understanding Your Horizon Carrier Screen Results

What is Maple Syrup Urine Disease, Type 1A?

Maple Syrup Urine Disease, Type 1A (MSUD, Type 1A) is an inherited disorder in which the body is unable to break down certain building blocks of protein from food. Signs and symptoms usually begin in infancy and include poor feeding, vomiting, lack of energy, failure to grow at the normal rate, and developmental delay. MSUD gets its name from the maple syrup odor of the urine in babies with the disease. Symptoms may worsen after going a long time without food or with illness and can be life- threatening. Lifelong dietary treatment is needed. If untreated, MSUD, Type 1A can lead to intellectual disability, seizures, coma, and sometimes death. Even with treatment affected children may have some symptoms of MSUD. Some children may have a milder form of MSUD Type 1A with fewer symptoms. Clinical trials involving potential new treatments for this condition may be available (see www.clinicaltrials.gov).

What causes MSUD, Type 1A?

MSUD, Type 1A is caused by a change, or mutation, in both copies of the BCKDHA gene pair. These mutations cause the genes to not work properly or not work at all. Normal function of the BCKDHA genes is to help breakdown certain building blocks of protein in food called amino acids. When both copies of the gene do not work correctly toxic buildup of certain amino acids occurs, causing damage to the brain and other organs. MSUD, Type 1A is 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 BCKDHA gene to have a child with MSUD, Type 1A. People who are carriers for MSUD, Type 1A are usually healthy and do not have symptoms of MSUD, Type 1A nor do they have the 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 MSUD, Type 1A, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their BCKDHA gene mutations to the child, who will then have this condition. Individuals found to carry more than one mutation for MSUD, Type 1A should discuss their risk for having an affected child, and any risks to their own health, with their health care provider. There are a number of other forms of Maple Syrup Urine Disease (MSUD), each caused by mutations in different genes. People who are carriers of a BCKDHA gene mutation are not likely to be at increased risk for having children with these other forms of MSUD.

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 MSUD, Type 1A ordered by a health care professional. If your partner is not found to be a carrier for MSUD, Type 1A, your risk of having an affected child is greatly reduced. Couples at risk of having a baby with MSUD, Type 1A 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 for this condition. Although MSUD, Type 1A is screened for as part of the newborn screening program in all states, babies at 25% risk for this condition may need diagnostic testing in addition to newborn screening. If you are not yet pregnant, your partner can have carrier screening for MSUD, Type 1A ordered by a health care professional. If your partner is found to be a carrier for MSUD, Type 1A, you have several reproductive options to consider:

- Natural pregnancy with or without prenatal diagnostic testing of the fetus or testing the baby after birth for MSUD, Type 1A
- Preimplantation genetic diagnosis (PGD) with in vitro fertilization (IVF) to test embryos for MSUD, Type 1A
- Adoption or use of a sperm or egg donor who is not a carrier for MSUD, Type 1A

What resources are available?

- Baby's First Test: http://www.babysfirsttest.org/newborn-screening/conditions/maple-syrup-urine- disease-msud
- Genetics Home Reference: http://ghr.nlm.nih.gov/condition/maple-syrup-urine-disease
- Prenatal diagnosis by CVS: http://www.marchofdimes.org/chorionic-villus-sampling.aspx
- Prenatal diagnosis by amniocentesis: http://www.marchofdimes.org/amniocentesis.aspx
- PGD with IVF: http://www.natera.com/spectrum



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PRIMARY MICROCEPHALY 1, AUTOSOMAL RECESSIVE

Understanding Your Horizon Carrier Screen Results

What is Primary Microcephaly 1, Autosomal Recessive?

Primary Microcephaly 1, Autosomal Recessive, is an inherited condition that affects the brain. Babies with this condition are born with a very small brain and skull (microcephaly). Most children with this condition have developmental delays, delays in speech and language skills, and mild to moderate intellectual disability. Some affected children also have short stature and/or seizures. Currently there is no cure for this condition and treatment is based on symptoms. Clinical trials involving potential new treatments for this condition may be available (see www.clinicaltrials.gov).

What causes Primary Microcephaly 1, Autosomal Recessive?

Primary Microcephaly 1, Autosomal Recessive, is caused by gene changes, or mutations, in both copies of the MCPH1 gene pair. These mutations cause the genes to not work properly or not work at all. When both copies of the MCPH1 gene do not work correctly it leads to the symptoms described above.

Primary Microcephaly 1, Autosomal Recessive, is 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 MCPH1 gene to have a child with Primary Microcephaly 1, Autosomal Recessive. People who are carriers for Primary Microcephaly 1, Autosomal Recessive, are usually healthy and do not have the condition 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 Microcephaly 1, Autosomal Recessive, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their MCPH1 gene mutations to the child, who will then have this condition.

Individuals found to carry more than one mutation for Primary Microcephaly 1, Autosomal Recessive, should discuss their risk for having an affected child with their healthcare provider.

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 Microcephaly 1, Autosomal Recessive, ordered by a healthcare professional. If your partner is not found to be a carrier of Primary Microcephaly 1, Autosomal Recessive, your risk of having an affected child is greatly reduced. Couples at risk of having a child with Primary Microcephaly 1, Autosomal Recessive, can opt to have prenatal diagnostic testing done through chorionic villus sampling (CVS) or amniocentesis during pregnancy or can choose to have the baby tested after birth for this condition.

If you are not yet pregnant, your partner can have carrier screening for Primary Microcephaly 1, Autosomal Recessive, ordered by a healthcare professional. If your partner is found to be a carrier for Primary Microcephaly 1, Autosomal Recessive, and your future children each have a 1 in 4, or 25%, chance of having the condition, you have several reproductive options to consider:

- Natural pregnancy with or without prenatal diagnostic testing of the fetus or testing the baby after birth for Primary Microcephaly 1, Autosomal Recessive,
- Preimplantation genetic diagnosis (PGD) with in vitro fertilization (IVF) to test embryos for Primary Microcephaly 1, Autosomal Recessive, or
- Adoption or use of a sperm or egg donor who is not a carrier for Primary Microcephaly 1, Autosomal Recessive.

What resources are available?

- MedlinePlus medlineplus.gov/genetics/condition/autosomal-recessive-primary-microcephaly/
- Genetic and Rare Diseases Information Center rarediseases.info.nih.gov/diseases/12117/autosomal-recessive-primary-microcephaly
- Prenatal diagnosis by CVS www.marchofdimes.org/chorionic-villus-sampling
- Prenatal diagnosis by amniocentesis <u>www.marchofdimes.org/amniocentesis</u>
- Preimplantation genetic diagnosis (PGD) with IVF <u>www.natera.com/spectrum</u>



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VARIANT DETAILS

BCKDHA, c.761C>A (p.A254D), heterozygous, likely pathogenic

- The c.761C>A (p.A254D) variant in the BCKDHA gene has not been observed 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 maple syrup urine disease, type 1A (PMID: 10745006, 31980395).
- This variant has been reported in ClinVar [ID: 93371].

MCPH1, c.1935+1_1935+5del, heterozygous, likely pathogenic

- The c.1935+1_1935+5del variant in the MCPH1 gene has not been observed in the gnomAD v2.1.1 dataset.
- This canonical splicing variant is predicted to alter the reading frame and cause nonsense-mediated decay (NMD) in a gene where loss-of-function is a known mechanism of disease.
- This variant has not been described in ClinVar.



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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, RNASEH/2B-RELATED (RNASEH/2B) negative AICARDI-GOUTIERES SYNDROME, RNASEH/2C-RELATED (RNASEH/2C) 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 (573GAL5) negative
ANDERMANN SYNDROME (SLC12A6) negative

ARGININE:GLYCINE AMIDINOTRANSFERASE DEFICIENCY (AGAT DEFICIENCY)

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

ARGINIOSOCCINATE L'IASE 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

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

(SLC27A4) negative

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, BBS4-RELATED (BBS4) 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 BART 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
CARTILAGE-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 (VP513A) negative CHRONIC GRANULOMATOUS DISEASE, CYBA-RELATED (CYBA) negative CHRONIC GRANULOMATOUS DISEASE, NCF2-RELATED (NCF2) negative

CILIOPATHIES, RPGRIP1L-RELATED (RPGRIP1L) negative CITRIN DEFICIENCY (SLC25A13) negative CITRULLINEMIA, TYPE 1 (ASS1) negative CLN10 DISEASE (CTSD) negative

COHEN SYNDROME (VPS13B) negative COL11A2-RELATED CONDITIONS (COL11A2) negative COMBINED MALONIC AND METHYLMALONIC ACIDURIA (ACSF3) negative

COMBINED OXIDATIVE PHOSPHORYLATION DEFICIENCY 1 (GFM1) 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

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 DYSERYTHROPOIETIC ANEMIA TYPE 2 (SEC23B) negative

CONGENITAL FINNISH NEPHROSIS (NPHS1) negative
CONGENITAL HYDROCEPHALUS 1 (CCDC88C) negative
CONGENITAL HYPERINSULINISM, KCNJ11-Related (KCNJ11) negative

CONGENITAL HYPERINSULINISM, RCNJ11-Related (RCNJ11) 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 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 OXIOREDUCTASE DEFICIENCY (POR) negative

D-BIFUNCTIONAL PROTEIN DEFICIENCY (HSD17B4) negative



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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-LIKE, TNXB-RELATED (TNXB) negative 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

F
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

FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS, UNC13D-RELATED (UNC13D) negative FAMILIAL HYPERCHOLESTEROLEMIA, LDLRAP1-RELATED (LDLRAP1) negative FAMILIAL HYPERCHOLESTEROLEMIA, LDLR-RELATED (LDLR) 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 (FANCG) negative FANCONI ANEMIA, GROUP J (BRIP1) negative FANCONI ANEMIA, GROUP L (FANCL) negative FANCONI ANEMIA, GROUP L (FANCL) 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

GDF5-RELATED CONDITIONS (GDF5) negative

GERODERMA OSTEODYSPLASTICA (GORAB) negative GITELMAN SYNDROME (SLC12A3) negative GLANZMANN THROMBASTHENIA (ITGB3) negative

GLANZMANN THROMBASTHENIA (ITGB3) 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
GLUTARIC ACIDEMIA, TYPE 2C (ETFDH) negative
GLUTATHIONE SYNTHETASE DEFICIENCY (GSS) negative
GLYCINE ENCEPHALOPATHY, AMT-RELATED (AMT) negative
GLYCINE ENCEPHALOPATHY, GLDC-RELATED (GLDC) negative
GLYCOGEN STORAGE DISEASE TYPE 5 (McArdle Disease) (PYGM) negative
GLYCOGEN STORAGE DISEASE TYPE IXE (PHKB) negative
GLYCOGEN STORAGE DISEASE TYPE IXC (PHKG2) 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 HEREDITARY SPASTIC PARAPLEGIA, CYP7B1-RELATED (CYP7B1) negative HERMANSKY-PUDLAK SYNDROME, AP3B1-RELATED (BLOC1S3) negative HERMANSKY-PUDLAK SYNDROME, BLOC1S3-RELATED (BLOC1S3) negative HERMANSKY-PUDLAK SYNDROME, BLOC1S6-RELATED (BLOC1S6) negative

HERMANSKY-PUDLAK SYNDROME, HPS1-RELATED (HPS1) negative HERMANSKY-PUDLAK SYNDROME, HPS3-RELATED (HPS3) negative HERMANSKY-PUDLAK SYNDROME, HPS4-RELATED (HPS4) negative

HERMANSKY-PUDLAK SYNDROME, HPS4-RELATED (HPS4) negative HERMANSKY-PUDLAK SYNDROME, HPS5-RELATED (HPS5) negative HERMANSKY-PUDLAK SYNDROME, HPS6-RELATED (HPS6) negative HOLOCARBOXYLASE SYNTHETASE DEFICIENCY (HLCS) negative HOMOCYSTINURIA AND MEGALOBLASTIC ANEMIA TYPE CBLG (MTR) negative

HOMOCYSTINURIA AND MEGALOBLASTIC ANEMIA TYPE CBLG (MTR)
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 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

(TMEM67) negative

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 (CEP104) 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

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, ITGAG-RELATED (ITGAG) 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 GUCY2D (GUCY2D) negative
LEBER CONGENITAL AMAUROSIS TYPE TULP1 (TULP1) negative
LEBER CONGENITAL AMAUROSIS, IQCB1-RELATED/SENIOR-LOKEN SYNDROME 5 (IQCB1) negative

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 2A (CAPN3) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2B (DYSF) negative LIMB-GIRDLE MUSCULAR DYSTROPHY, TYPE 2C (SGCG) 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 2F (SGCD) negative LIMB-GIRDLE DELIVERAGE AND ASSESSED ASSESSED AND ASSESSED A

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) see first page MAPLE SYRUP URINE DISEASE, TYPE 1B (BCKDHB) negative

MAPLE STRUP URINE DISEASE, TYPE 2 (DBT) 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 (MK51) 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 CBLC (MMADHC) negative METHYLMALONIC ACIDURIA AND HOMOCYSTINURIA, TYPE CBID (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 (NDUFST) 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

(HADHB) negative

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 II A (SANFILIPPO A) (SGSH) negative MUCOPOLYSACCHARIDOSIS, TYPE III A (SANFILIPPO B) (NAGLU) 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 IV (HYAL1) negative

MUCOPOLYSACCHARIDOSIS, TYPE VI (MAROTEAUX-LAMY) (ARSB) negative MUCOPOLYSACCHARIDOSIS, TYPE VI (MAROTEAUX-LAMY) (ARSB) negative MUCOPOLYSACCHARIDOSIS, TYPE VII (GUSB) negative MULIBREY NANISM (TRIM37) negative MULIBREY PRENGLIM 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

N-ACETYLGLOTAMATE 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, CLNS-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 NIMEGEN 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 IV (SLC45A2) negative OCULOCUTANEOUS ALBINISM TYPE, III (TYRP1) 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

PENDRED SYNDROME (SLCZOA4) 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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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 (HPD) 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

Z ZELLWEGER SPECTRUM DISORDER, PEX13-RELATED (PEX13) negative ZELLWEGER SPECTRUM DISORDER, PEX16-RELATED (PEX16) negative ZELLWEGER SPECTRUM DISORDER, PEXS-RELATED (PEXS) 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, PEX2-RELATED (PEX26) negative

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 1A (WAT) Hegative PONTOCEREBELLAR HYPOPLASIA, TYPE 2D (SEPSECS) negative PONTOCEREBELLAR HYPOPLASIA, VP553-RELATED (VP553) 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) negative PRIMARY HYPEROXALURIA, TYPE 1 (AGXT) negative

PRIMARY HYPEROXALURIA, TYPE 2 (GRIPPR) negative
PRIMARY HYPEROXALURIA, TYPE 3 (HOGA1) negative
PRIMARY MICROCEPHALY 1, AUTOSOMAL RECESSIVE (MCPH1) see first page

PROGRESSIVE EARLY-ONSET ENCEPAHLOPATHY 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

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
PSEUDOXANTHOMA ELASTICUM (ABCC6) negative
PTERIN-4 ALPHA-CARBINOLAMINE DEHYDRATASE (PCD) DEFICIENCY (PCBD1) negative
PYCNODYSOSTOSIS (CTSK) negative
PYRIDOXAL 5"-PHOSPHATE-DEPENDENT EPILEPSY (PNPO) 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 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



Patient Name:

Test Information
Ordering Physician:

horizon natera carrier screen

Date Of Birth: Case File ID:

Report Date:

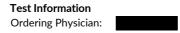
Clinic Information:

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

Patient	Information
D 11 1	N.I.

Patient Name:

Date Of Birth: Case File ID:



Clinic Information:



Report Date:

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, variants in exons 1-9 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.

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, only NM_030653.3:c.1763 - 1G > C variant will be analyzed and reported.

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, variants in exons 20 - 28 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 Information Patient Name:	Test Information Ordering Physician:
Date Of Birth:	Clinic Information:
Case File ID:	Report Date:



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	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.





7092,DONOR **▲**



Specimen:
Requisition: UUUU8
Lab Reference ID:
Report Status: PARTIAL/ SEE REPORT

Collected: 05/09/2024 08:40 Received: 05/10/2024 16:45 Reported: 05/16/2024 19:44



▲ CBC (includes Differential and Platelets)

(FINAL)

Lab: AMD

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Analyte	Value		
White Blood Cell Count	5.3	Reference Range: 3.8-10.8 Thous/uL	FINAL
Red Blood Cell Count	4.86	Reference Range: 4.20-5.80 Mill/uL	(FINAL)
HEMOGLOBIN	14.7	Reference Range: 13.2-17.1 g/dL	FINAL
Hematocrit	47.1	Reference Range: 38.5-50.0 %	(FINAL)
MCV	96.9	Reference Range: 80.0-100.0 fL	FINAL
MCH	30.2	Reference Range: 27.0-33.0 pg	FINAL
▲ MCHC	31.2 L	Reference Range: 32.0-36.0 g/dL	FINAL
RDW	11.1	Reference Range: 11.0-15.0 %	(FINAL)
PLATELET COUNT	198	Reference Range: 140-400 Thous/uL	FINAL
MPV	10.7	Reference Range: 7.5-12.5 fl	FINAL
Absolute Neutrophils	2957	Reference Range: 1500-7800 cells/uL	FINAL
Absolute Lymphocytes	1802	Reference Range: 850-3900 cells/uL	FINAL
Absolute Monocytes	350	Reference Range: 200-950 cells/uL	(FINAL)
Absolute Eosinophils	148	Reference Range: 15-500 cells/uL	FINAL
Absolute Basophils	42	Reference Range: 0-200 cells/uL	FINAL
Neutrophils	55.8	%	FINAL
Lymphocytes	34.0	%	FINAL
Monocytes	6.60	%	FINAL
Eosinophils	2.80	%	FINAL
Basophils	0.80	%	FINAL
Nucleated RBC	0.00	Reference Range: 0 /100 WBC	(FINAL)

Hemoglobinopathy Evaluation



Lab: AMD

Analyte	Value		
Hemoglobinopathy Evaluation			FINAL
Red Blood Cell Count	4.86	Reference Range: 4.20-5.80 Mill/uL	(FINAL)
HEMOGLOBIN	14.7	Reference Range: 13.2-17.1 g/dL	(FINAL)
Hematocrit			(FINAL)
Hematocrit	47.1	Reference Range: 38.5-50.0 %	(FINAL)
MCV	96.9	Reference Range: 80.0-100.0 fL	(FINAL)
MCH	30.2	Reference Range: 27.0-33.0 pg	FINAL
RDW	11.1	Reference Range: 11.0-15.0 %	(FINAL)

7092,DONOR

1/3

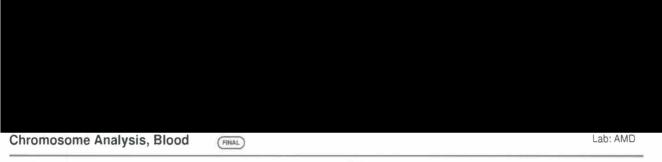
5/24/24

Hemoglobinopathy Evaluation			FINAL
Hemoglobin A	97.4	Reference Range: >96.0 %	FINAL
Hemoglobin F	0.0	Reference Range: <2.0 %	FINAL
Hemoglobin A2 (Quant)	2.6	Reference Range: 2.2-3.2 %	FINAL
Interpretation NORMAL PATTERN			FINAL

There is a normal pattern of hemoglobins and normal levels of Hb A2 and Hb F are present.

No variant hemoglobins are observed. This is consistent with A/A phenotype.

If iron deficiency coexists with a mild/silent beta thalassemia trait Hb A2 may be in the normal range. Rare variant hemoglobins have no separation from hemoglobin A by capillary zone electrophoresis (CZE) or high-performance liquid chromatography (HPLC). If clinically indicated, Thalassemia and Hemoglobinopathy Comprehensive (TC 17365) should be considered.



Analyte Value

Chromosome Analysis, Blood

Order ID:

FINAL

Specimen Type:

Blood

Clinical Indication:

Gamete donor

RESULT:

NORMAL MALE KARYOTYPE

INTERPRETATION:

Chromosome analysis revealed normal G-band patterns within the limits of standard cytogenetic analysis.

Please expect the results of any other concurrent study in a separate

NOMENCLATURE:

46, XY

ASSAY INFORMATION:

Method:

G-Band (Digital Analysis:

MetaSystems/Ikaros)

Cells Counted: 20 Band Level: 550 Cells Analyzed: 5 Cells Karyotyped: 5

This test does not address genetic disorders that cannot be detected by standard cytogenetic methods or rare events such as low level mosaicism or subtle rearrangements.

Steven A. Schonberg, Ph.D., FACMG, Technical Director, Cytogenetics and Genomics, 703-802-7156

Electronic Signature:

5/16/2024 7:01 PM

For additional information, please refer to http://education.questdiagnostics.com/faq/chromsblood (This link is being provided for informational/ educational purposes only).



Performing Sites

AMD Quest Diagnostics Nichols Institute, 14225 Newbrook Drive, Chantilly, VA 20151 Laboratory Director: Patrick W Mason, MD PhD

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