

SPERM DONOR GENETIC TESTING SUMMARY

Donor # 7975

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

Last Updated: 05/04/2026

Donor Reported Ancestry: German, Scottish

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 and del/dup analysis.	Carrier: Batten Disease, CLN3-Related (CLN3) Carrier: Cerebrotendinous Xanthomatosis (CYP27A1) Carrier: Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz-Passarge Syndrome (WNT10A) Carrier: Wolcott-Rallison Syndrome (EIF2AK3) Negative for other genes tested.	Partner testing is recommended before using this donor. Carriers of Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz-Passarge Syndrome may have mild symptoms of this condition. Please see results for further information. Genetic counseling can be considered. Donor 7975 was identified to have a deletion in the EIF2AK3 gene. The exact size and contents of this deletion are unknown. Deletions (and duplications) are common. Genetic counseling is recommended to help you better understand these results.

*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 Information

Patient Name: Donor 7975

Date Of Birth: [REDACTED]

Gender: Male

Patient ID: N/A

Medical Record #: 7975-[REDACTED]

Collection Kit: [REDACTED]

Accession ID: N/A

Case File ID: [REDACTED]

Ethnicity: Caucasian/Non-Hispanic White

Test Information

Ordering Physician: [REDACTED]

Clinic Information: Fairfax Cryobank

Phone: N/A

Report Date: 02/24/2026

Sample Collected: 02/10/2026

Sample Received: 02/11/2026

Sample Type: Blood

**Horizon™**
Advanced carrier screening**CARRIER SCREENING REPORT**

ABOUT THIS SCREEN: Horizon™ is a carrier screen for specific autosomal recessive and X-linked 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 Batten Disease, CLN3-Related**

Positive for the pathogenic variant exons 7-8 deletion in the CLN3 gene. If this individual's partner is a carrier for BATTEN DISEASE, CLN3-RELATED, their chance to have a child with this condition is 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

CARRIER for Cerebrotendinous Xanthomatosis

Positive for the pathogenic variant c.475C>T (p.Q159*) in the CYP27A1 gene. If this individual's partner is a carrier for CEREBROTENDINOUS XANTHOMATOSIS, their chance to have a child with this condition is 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

CARRIER for Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz-Passarge Syndrome

Positive for the pathogenic variant c.682T>A (p.F228I) in the WNT10A gene. This variant has been reported in a homozygous state or in conjunction with another WNT10A variant in individual(s) with oligodontia (PMID: 28105635, 30426266) and odontoonychodermal dysplasia (PMID: 19559398, 21279306, 28105635). Carriers may have mild symptoms of this condition. Comprehensive genetic counseling and additional medical workup as clinically indicated should be considered. If this individual's partner is a carrier for ODONTO-ONYCHO-DERMAL DYSPLASIA / SCHOPF-SCHULZ-PASSARGE SYNDROME, their chance to have a child with this condition is 1 in 4 (25%). Carrier screening for this individual's partner is suggested.

CARRIER for Wolcott-Rallison Syndrome

Positive for the pathogenic variant exons 1-17 deletion (full gene deletion) in the EIF2AK3 gene. If this individual's partner is a carrier for WOLCOTT-RALLISON SYNDROME, 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 545 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.

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Senior Laboratory Director, Natera
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Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]

**Horizon™**
Advanced carrier screening

Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

Report Date: 02/24/2026

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.



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

Report Date: 02/24/2026

BATTEN DISEASE, CLN3-RELATED**Understanding Your Horizon Carrier Screen Results****What is Batten Disease, CLN3-Related?**

Batten Disease, CLN3-Related (also known as Juvenile Batten Disease, CLN3 Disease, or Neuronal Ceroid Lipofuscinosis, CLN3-Related) is an inherited disorder that affects the brain and nervous system leading to progressive vision loss, intellectual disability, loss of intellectual and motor skills, speech problems, and seizures. Children typically have normal development for several years and then symptoms involving vision, thinking, and movement begin and continue to worsen with age. People with Batten Disease, CLN3-Related may live into their twenties or thirties. Rarely, symptoms begin in infancy and are more severe. Babies with early-onset of symptoms usually do not live past childhood. 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 Batten Disease, CLN3-Related?

Batten Disease, CLN3-Related is caused by a gene change, or mutation in both copies of the CLN3 gene pair. These mutations cause the genes to not work properly or not work at all. The CLN3 gene is important for the brain and nervous system to function normally. When both copies of the CLN3 gene do not work correctly, cells in the nervous system eventually die, leading to the symptoms described above. Batten Disease, CLN3-Related 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 CLN3 gene to have a child with this form of Batten Disease. People who are carriers for Batten Disease, CLN3-Related are usually healthy and do not have symptoms nor do they have Batten Disease 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 Batten Disease, CLN3-Related there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their CLN3 gene mutations to the child, who will then have the condition. Individuals found to carry more than one mutation for Batten Disease, CLN3-Related should discuss their risk for having an affected child with their health care provider. There are other forms of Batten Disease and of Neuronal Ceroid Lipofuscinosis, each caused by mutations in different genes. A person who is a carrier for Batten Disease is not likely to be at increased risk for having a child with these other forms.

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 Batten Disease, CLN3-Related ordered by a health care professional. If your partner is not found to be a carrier for Batten Disease, CLN3-Related, your risk of having a child with this form of Batten Disease is greatly reduced. If your partner is found to be a carrier, you 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. If you are not yet pregnant, your partner can have carrier screening for Batten Disease, CLN3-Related ordered by a health care professional. If your partner is found to be a carrier for Batten Disease, CLN3-Related, you have several reproductive options to consider:

- Natural pregnancy with or without prenatal diagnosis of the fetus or testing the baby after birth for Batten Disease, CLN3-Related
- Preimplantation genetic diagnosis (PGD) with in vitro fertilization (IVF) to test embryos for Batten Disease, CLN3-Related
- Adoption or use of a sperm or egg donor who is not a carrier for Batten Disease, CLN3-Related

What resources are available?

- Genetics Home Reference: <https://ghr.nlm.nih.gov/condition/cln3-disease>
- Batten Disease Support and Research Association: <http://www.bdsra.org/>
- Prenatal diagnosis done through CVS: <http://www.marchofdimes.org/chorionic-villus-sampling.aspx>
- Prenatal diagnosis done through Amniocentesis: <http://www.marchofdimes.org/amniocentesis.aspx>
- Preimplantation genetic diagnosis (PGD) with IVF: <http://www.natera.com/spectrum>



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

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CEREBROTENDINOUS XANTHOMATOSIS**Understanding Your Horizon Carrier Screen Results****What is Cerebrotendinous Xanthomatosis?**

Cerebrotendinous Xanthomatosis is an inherited lipid (fat) storage disorder. People with this condition have difficulty breaking down different forms of cholesterol, causing these and other fats to build up in various parts of the body in the form of xanthomas. Xanthomas are yellow, fatty nodules which are most often found in the brain and tendons of people with Cerebrotendinous Xanthomatosis. It is important to treat this condition as symptoms can worsen over time due to the accumulation of excess fats throughout tissues in the body, although increased cholesterol levels are not found in the blood. The number and severity of symptoms will vary from person to person so no two people with Cerebrotendinous Xanthomatosis will be affected the same, even within the same family. Features of Cerebrotendinous Xanthomatosis can include chronic diarrhea starting in infancy, clouding of the lens of the eye (cataracts) developing in late childhood, progressively brittle bones that are prone to break, and neurological problems in adulthood, such as dementia with decreasing intellectual abilities, seizures, hallucinations, depression, and difficulty with coordinating movements (ataxia) and speech (dysarthria). The neurological symptoms that occur are thought to be related to the excess amounts of circulating fats and the xanthomas that develop in the brain. Xanthomas that develop in tendons may cause discomfort and lessen tendon flexibility. People with Cerebrotendinous Xanthomatosis also have an increased risk for heart disease. Currently there is no cure for this condition; however, lifelong treatment with specific medications can either prevent or lessen some of the symptoms. Clinical trials involving potential new treatments for this condition may be available (see www.clinicaltrials.gov).

What causes Cerebrotendinous Xanthomatosis?

Cerebrotendinous Xanthomatosis is caused by a gene change, or mutation, in both copies of the CYP27A1 gene pair. These mutations cause the genes to not work properly or not work at all. When both copies of this gene do not work correctly, it leads to the symptoms described above. Cerebrotendinous Xanthomatosis 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 CYP27A1 gene to have a child with this condition. People who are carriers for Cerebrotendinous Xanthomatosis are usually healthy and do not have Cerebrotendinous Xanthomatosis 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 of a CYP27A1 mutation, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their CYP27A1 gene mutations to the child, who will then have the condition. Individuals found to carry more than one mutation for Cerebrotendinous Xanthomatosis should discuss their risk for having an affected child, and any potential risks to their own health, with their health care 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 Cerebrotendinous Xanthomatosis ordered by a health care professional. If your partner is not found to be a carrier for Cerebrotendinous Xanthomatosis, your risk of having a child with Cerebrotendinous Xanthomatosis is greatly reduced. Couples at risk of having a baby with Cerebrotendinous Xanthomatosis 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 Cerebrotendinous Xanthomatosis ordered by a health care professional. If your partner is found to be a carrier for Cerebrotendinous Xanthomatosis, 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 Cerebrotendinous Xanthomatosis
- Preimplantation genetic diagnosis (PGD) with in vitro fertilization (IVF) to test embryos for Cerebrotendinous Xanthomatosis
- Adoption or use of a sperm or egg donor who is not a carrier for Cerebrotendinous Xanthomatosis

What resources are available?

- Genetics Home Reference: <http://ghr.nlm.nih.gov/condition/Cerebrotendinous-Xanthomatosis>
- National Organization for Rare Disorders: <https://www.rarediseases.org/rare-disease-information/rare-diseases/byID/1164/viewAbstract>
- Prenatal diagnosis by CVS: <http://www.marchofdimes.org/chorionic-villus-sampling.aspx>
- Prenatal diagnosis by amniocentesis: <http://www.marchofdimes.org/amniocentesis.aspx>
- Preimplantation genetic diagnosis (PGD) with IVF: <http://www.natera.com/spectrum>



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

Report Date: 02/24/2026

ODONTO-ONYCHO-DERMAL DYSPLASIA / SCHOPF-SCHULZ-PASSARGE SYNDROME**Understanding Your Horizon Carrier Screen Results****What are Odonto-Onycho-Dermal Dysplasia and Schopf-Schulz-Passarge Syndrome?**

Odonto-Onycho-Dermal Dysplasia (OODD) and Schopf-Schulz-Passarge Syndrome (SSPS) are types of Ectodermal Dysplasia, a group of inherited disorders that affect the skin, sweat glands, teeth, and nails. The two disorders have similar signs and symptoms including dry and thin body and scalp hair, undeveloped and absent teeth, fingernail abnormalities, excessive or absent sweating, hardening of the skin, especially on the palms of the hands or soles of the feet, and sometimes blistering rashes. SSPS may also cause benign eyelid cysts and sometimes other skin tumors. Many of the symptoms start in childhood; however, some may not show up until adulthood. Some people have a related form of these disorders instead, called Hypohidrotic Ectodermal Dysplasia (HED). Symptoms of HED are similar to OODD/SSPS syndromes and include sparse hair on head and body, reduced ability to sweat, and abnormally shaped and/or absence of some teeth. Currently there is no cure for these conditions and treatment is based on symptoms. Clinical trials involving potential new treatments for this condition may be available (see www.clinicaltrials.gov).

What causes Odonto-Onycho-Dermal Dysplasia and Schopf-Schulz-Passarge Syndrome?

OODD and SSPS are caused by a gene change, or mutation, in both copies of the WNT10A gene pair. These mutations cause the genes to not work properly or not work at all. When both copies of this gene do not work correctly, it leads to the symptoms described above. It is sometimes, but not always, possible to determine which form of the disorder a specific mutation in the WNT10A gene will cause. OODD and SSPS 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 WNT10A gene to have a child with either OODD or SSPS. People with a mutation in one copy of the WNT10A gene may have some mild symptoms as described below or may be completely unaffected. 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 both have one WNT10A mutation, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their WNT10A gene mutations to the child, who will then have OODD or SSPS, and a 1 in 2, or 50%, chance in each pregnancy for only one parent to pass on their WNT10A mutation to the child, who would then be a carrier and may or may not have mild symptoms. There is a 1 in 4, or 25%, chance in each pregnancy that the child will NOT inherit a WNT10A mutation and will not have any features of OODD, SSPS or milder symptoms. People who are carriers of a mutation in one copy of the WNT10A gene but not the other may have mild features of ectodermal dysplasia such as dry skin, abnormal nails, and thin hair or may have no symptoms at all. Some people who are carriers have one or more missing permanent teeth (not including wisdom teeth) and may have one or more misshapen teeth, a condition sometimes called Tooth Agenesis, Selective, 4. If only one parent has a WNT10A gene mutation, there is a 1 in 2, or 50%, chance in each pregnancy to have child who is a carrier who may or may not have mild symptoms of Ectodermal Dysplasia and a 1 in 2, or 50%, chance in each pregnancy to have a child who did not inherit this mutation. Individuals found to carry more than one mutation for OODD/SSPS should discuss their risk for having an affected child and any potential effects to their own health with their health care provider. There are a number of other forms of Ectodermal Dysplasia that are inherited in different ways and are caused by mutations in different genes. A person who is a carrier for a mutation in the WNT10A gene is not likely to be at increased risk for having a child with these other forms of Ectodermal Dysplasia.

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 OODD/SSPS ordered by a health care professional. If your partner is not found to be a carrier for OODD/SSPS, your risk of having a child with OODD or SSPS is greatly reduced. Couples at risk of having a baby with OODS or SSPS 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. If you are not yet pregnant, your partner can have carrier screening for OODD/SSPS ordered by a health care professional. If your partner is found to be a carrier for OODD/SSPS, you have several reproductive options to consider:

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

What resources are available?

- Genetics Home Reference: <http://ghr.nlm.nih.gov/gene/WNT10A>
- 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>



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

Report Date: 02/24/2026

WOLCOTT-RALLISON SYNDROME**Understanding Your Horizon Carrier Screen Results****What is Wolcott-Rallison Syndrome?**

Wolcott-Rallison Syndrome is characterized by life-long insulin-dependent diabetes that starts shortly after birth or in early infancy. Later symptoms include bone changes that cause slow growth and short stature, joint changes with pain, and osteoporosis with increased risk of fractures. Some affected children also have an enlarged liver and spleen, kidney and heart problems, and/or intellectual disability. 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 Wolcott-Rallison Syndrome?

Wolcott-Rallison Syndrome is caused by a gene change, or mutation, in both copies of the EIF2AK3 gene pair. These mutations cause the gene to not work properly or not work at all. When both copies of this gene do not work correctly, it leads to the symptoms described above. Wolcott-Rallison Syndrome 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 EIF2AK3 gene to have a child with Wolcott-Rallison Syndrome. People who are carriers for Wolcott-Rallison Syndrome are usually healthy and do not have symptoms, nor do they have this 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 Wolcott-Rallison Syndrome, there is a 1 in 4, or 25%, chance in each pregnancy for both partners to pass on their EIF2AK3 gene mutations to the child, who will then have this disorder. Individuals found to carry more than one mutation for Wolcott-Rallison Syndrome should discuss their risk for having an affected child, and any potential effects to their own health, with their health care 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 Wolcott-Rallison Syndrome ordered by a health care professional. If your partner is not found to be a carrier for Wolcott-Rallison Syndrome, your risk of having an affected child is greatly reduced. Couples at risk of having a baby with Wolcott-Rallison Syndrome 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. If you are not yet pregnant, your partner can have carrier screening for Wolcott-Rallison Syndrome ordered by a health care professional. If your partner is found to be a carrier for Wolcott-Rallison Syndrome, you have several reproductive options to consider:

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

What resources are available?

- Genetics Home Reference: <https://ghr.nlm.nih.gov/gene/EIF2AK3>
- OMIM: Wolcott-Rallison Syndrome: <https://omim.org/entry/226980>
- 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>



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]

**Horizon™**
Advanced carrier screening

Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

Clinic Information: Fairfax Cryobank

Report Date: 02/24/2026

VARIANT DETAILS**CLN3, exons 7-8 deletion, pathogenic**

- The exons 7-8 deletion in the CLN3 gene is predicted to result in out-of-frame changes and cause nonsense-mediated decay (NMD) in a gene where loss-of-function is a known mechanism of disease.
- This variant has been reported in a homozygous state or in conjunction with another variant in individual(s) with neuronal ceroid lipofuscinosis (PMID: 9392580, 32576985).
- This variant has been reported in ClinVar [ID: 915981].

CYP27A1, c.475C>T (p.Q159*), pathogenic

- The c.475C>T (p.Q159*) variant in the CYP27A1 gene has been observed at a frequency of 0.0012% 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 cerebrotendinous xanthomatosis (PMID: 8931710).
- This premature termination variant is predicted to cause nonsense-mediated decay (NMD) in a gene where loss-of-function is a known mechanism of disease.
- This variant has been reported in ClinVar [ID: 65873].

EIF2AK3, exons 1-17 deletion (full gene deletion), pathogenic

- The exons 1-17 deletion (full gene deletion) in the EIF2AK3 gene covers the entire coding region of the gene and may extend beyond the 5' and 3' ends of the gene.
- This variant has been reported in a homozygous state or in conjunction with another variant in individual(s) with Wolcott-Rallison syndrome (PMID: 25893603).
- This variant has not been reported in ClinVar.

WNT10A, c.682T>A (p.F228I), pathogenic

- The c.682T>A (p.F228I) variant in the WNT10A gene has been observed at a frequency of 1.3715% in the gnomAD v2.1.1 dataset.
- This variant has been reported in a homozygous state or in conjunction with another WNT10A variant in individual(s) with oligodontia (PMID: 28105635, 30426266) and odontonychoodermal dysplasia (PMID: 19559398, 21279306, 28105635).
- This variant has been described in ClinVar [ID: 4462].



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Clinic Information: Fairfax Cryobank

Date Of Birth: [REDACTED]

Case File ID: [REDACTED]

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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**1**17-BETA HYDROXYSTEROID DEHYDROGENASE 3 DEFICIENCY (*HSD17B3*) **negative****3**

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**

55-ALPHA-REDUCTASE DEFICIENCY (*SRD5A2*) **negative****6**6-PYRUVYL-TETRAHYDROPTERIN SYNTHASE (PTPS) DEFICIENCY (*PTS*) **negative****A**

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-GOUTIERES 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-GOUTIERES 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**
 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**

BBARDET-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**
 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*) **see first page**
 BETA-HEMOGLOBINOPATHIES (*HBB*) **negative**
 BETA-KETOTHIOLASE DEFICIENCY (*ACAT1*) **negative**
 BETA-MANNOSIDOSIS (*MANBA*) **negative**
 BETA-UREIDOPROPIONASE DEFICIENCY (*UPB1*) **negative**
 BILATERAL FRONTOPIRIETAL 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**

C

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*) **see first page**
 CHARCOT-MARIE-TOOTH DISEASE, RECESSIVE INTERMEDIATE C (*PLEKHG5*) **negative**
 CHARCOT-MARIE-TOOTH-DISEASE, TYPE 4D (*NDRG1*) **negative**
 CHEDIAK-HIGASHI SYNDROME (*LYST*) **negative**
 CHOREOACANTHOCYTOSIS (*VPS13A*) **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 (*TFSM*) **negative**



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Clinic Information: Fairfax Cryobank

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C

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 (*MPL*) **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 INSENSITIVITY TO PAIN WITH ANHIDROSIS (*CIPA*) (*NTRK1*) **negative**
CONGENITAL MYASTHENIC SYNDROME, *CHAT*-RELATED (*CHAT*) **negative**
CONGENITAL MYASTHENIC SYNDROME, *CHRNA*-RELATED (*CHRNA*) **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 OXIDOREDUCTASE DEFICIENCY (*POR*) **negative**

D

D-BIFUNCTIONAL PROTEIN DEFICIENCY (*HSD17B4*) **negative**
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, *RTKL*-RELATED (*RTKL*) **negative**
DYSTROPHIC EPIDERMOLYSIS BULLOSA, *COL7A1*-Related (*COL7A1*) **negative**

E

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, 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/DESBQUOIS 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 (*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 G (*FANCG*) **negative**
FANCONI ANEMIA, GROUP I (*FANCI*) **negative**
FANCONI ANEMIA, GROUP J (*BRIP1*) **negative**
FANCONI ANEMIA, GROUP L (*FANCL*) **negative**
FARBER LIPOGRANULOMATOSIS (*ASAHI*) **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**

G

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**
GLUTARIC ACIDEMIA, TYPE 1 (*GCDH*) **negative**
GLUTARIC ACIDEMIA, TYPE 2A (*ETFA*) **negative**
GLUTARIC ACIDEMIA, TYPE 2B (*ETFB*) **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 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**

H

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**



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



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H

HEREDITARY FRUCTOSE INTOLERANCE (ALDOB) **negative**
 HEREDITARY HEMOCHROMATOSIS TYPE 2B (HAMP) **negative**
 HEREDITARY SPASTIC PARAPARESIS, TYPE 49 (TECP2) **negative**
 HEREDITARY SPASTIC PARAPLEGIA, CYP7B1-RELATED (CYP7B1) **negative**
 HERMANSKY-PUDLAK SYNDROME, AP3B1-RELATED (AP3B1) **negative**
 HERMANSKY-PUDLAK SYNDROME, BLOC153-RELATED (BLOC153) **negative**
 HERMANSKY-PUDLAK SYNDROME, BLOC156-RELATED (BLOC156) **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, 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 DUE TO DEFICIENCY OF MTHFR (MTHFR) **negative**
 HOMOCYSTINURIA, CBS-RELATED (CBS) **negative**
 HOMOCYSTINURIA, Type cblE (MTRR) **negative**
 HYDROLETHALUS SYNDROME (HLYS1) **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**

I

IMERSLUND-GRASBECK 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**

J

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, 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**

KKRABBE DISEASE (GALC) **negative****L**

LAMELLAR ICHTHYOSIS, TYPE 1 (TGM1) **negative**
 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 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 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**

M

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**
 MECP-RELATED NEUROLOGIC DISORDER (MECP) **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 CBLF (MMACHC) **negative**
 METHYLMALONIC ACIDURIA AND HOMOCYSTINURIA, TYPE CblD (MMADHC) **negative**



Patient Information

Patient Name: Donor 7975

Test Information

Ordering Physician: [REDACTED]



Clinic Information: Fairfax Cryobank

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M

METHYLMALONIC ACIDURIA, MMAA-RELATED (MMAA) **negative**
METHYLMALONIC ACIDURIA, MMAB-RELATED (MMAB) **negative**
METHYLMALONIC ACIDURIA, TYPE MUT(0) (MUT) **negative**
MEVALONIC KINASE DEFICIENCY (MKV) **negative**
MICROCEPHALIC OSTEODYSPLASTIC PRIMORDIAL DWARFISM TYPE II (PCNT) **negative**
MICROPHTHALMIA / ANOPHTHALMIA, VSX2-RELATED (VSX2) **negative**
MITOCHONDRIAL COMPLEX I DEFICIENCY, ACAD9-RELATED (ACAD9) **negative**
MITOCHONDRIAL COMPLEX I DEFICIENCY, NDUFAF5-RELATED (NDUFAF5) **negative**
MITOCHONDRIAL COMPLEX I 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 (HADHB) **negative**
MOLYBDENUM COFACTOR DEFICIENCY TYPE B (MOC52) **negative**
MOLYBDENUM COFACTOR DEFICIENCY, TYPE A (MOC51) **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 (TRIM37) **negative**
MULTIPLE PTERYGIUM SYNDROME, CHRNG-RELATED/ESCOBAR SYNDROME (CHRNA) **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

N-ACETYLGUTAMATE 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, 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, TMPS53-RELATED (TMPS53) **negative**
NONSYNDROMIC INTELLECTUAL DISABILITY (CC2D1A) **negative**
NORMOPHOSPHATEMIC TUMORAL CALCINOSIS (SAMD9) **negative**

O

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) **see first page**
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**

P

PANTOTHENATE KINASE-ASSOCIATED NEURODEGENERATION (PANK2) **negative**
PAPILLON LEFEVRE 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**
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 (SEPS2) **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) **negative**
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**



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P

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**

R

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**
 RLB1-RELATED RETINOPATHY (*RLBP1*) **negative**
 ROBERTS SYNDROME (*ESCO2*) **negative**
 RYR1-RELATED CONDITIONS (*RYR1*) **negative**

S

SALLA DISEASE (*SLC17A5*) **negative**
 SANDHOFF DISEASE (*HEXB*) **negative**
 SCHIMKE IMMUNOOSSEOUS DYSPLASIA (*SMARCA1*) **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**
 SJOGREN-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****T**

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**
 TRICHOHYDROSTROPHY 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**

U

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**

V

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**

W

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*) **see first page**
 WOLMAN DISEASE (*LIPA*) **negative**
 WOODHOUSE-SAKATI SYNDROME (*DCAF17*) **negative**

X

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, 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, PEX2-RELATED (*PEX2*) **negative**



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Horizon™
Advanced carrier screening

Date Of Birth: [REDACTED]

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Z
ZELLWEGER SPECTRUM DISORDERS, PEX6-RELATED (PEX6) **negative**



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Advanced carrier screening

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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-CRYL1 critical region 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. Sequencing and CNV analysis may have reduced sensitivity due to high sequence homology.

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.



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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

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.

