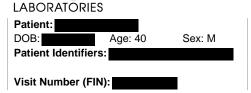


Expanded Carrier Screen by Next Generation Sequencing





ARUP Test Code: 2014680

Collection Date: 10/30/2025 Received in lab: 11/02/2025 Completion Date: 11/21/2025

Test Information

Test performed at: Myriad Women's Health, Inc., 180 Kimball Way, South San Francisco, CA 94080

Patient Report

Patient's genetic report from Myriad Women's Health, Inc. continues on following page(s).











RESULTS RECIPIENT

ARUP LABORATORIES

Attn:
500 S Chipeta Way
Salt Lake City, UT 84108
Phone: (801) 583-2787
Fax: (801) 584-5249

NPI:

Foresight® Carrier Screen

Report Date: 11/16/2025

MALE

DOB: Ethnicity: African or African

American
Sample Type: EDTA Blood
Date of Collection: 10/30/2025
Date Received: 11/04/2025
Date Tested: 11/14/2025

Barcode: Accession ID:

Indication: Family history and/or

partner positive

FEMALE N/A

POSITIVE: CARRIER

ABOUT THIS TEST

The Myriad Foresight Carrier Screen utilizes sequencing, maximizing coverage across all DNA regions tested, to help you learn about your chance to have a child with a genetic disease.

RESULTS SUMMARY

Risk Details		Partner
Panel Information	Foresight Carrier Screen Universal Panel Fundamental Plus Panel Fundamental Panel (175 conditions tested)	N/A
POSITIVE: CARRIER Alpha Thalassemia, HBA1/HBA2-related Reproductive Risk: Not Calculated Inheritance: Autosomal Recessive	CARRIER* 1 disease-causing mutation detected. Alpha globin status: -a/aa.	Reproductive risk can be more accurately assessed after carrier screening of the partner. Carrier testing should be considered. See "Next Steps".

^{*}Carriers generally do not experience symptoms.

No disease-causing mutations were detected in any other gene tested. A complete list of all conditions tested can be found on page 8

CLINICAL NOTES

None

NEXT STEPS

- Carrier testing should be considered for the diseases specified above for the patient's partner.
- Patients are recommended to discuss reproductive risks with their health care provider or a genetic counselor. Patients may also wish to discuss any positive results with blood relatives, as there is an increased chance that they are also carriers.

DISCLAIMERS

• The terms 'male', 'female', 'he', 'she', 'women', and 'men' refer to sex assigned at birth.

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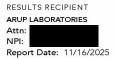














FEMALE

POSITIVE: CARRIER

Alpha Thalassemia, HBA1/HBA2-related

Genes: HBA1, HBA2 | Inheritance Pattern: Autosomal Recessive

Patient		No partner tested
Result	■ Carrier	N/A
Variant(s)	-alpha3.7 [chr16:g.(?_226678)_(227520_?)del] heterozygote	N/A
Alpha globin status	-a/aa	N/A
Methodology	Alpha thalassemia (HBA1/HBA2) sequencing with targeted copy number analysis (v4.0)	N/A
Interpretation	This individual is a carrier of alpha thalassemia. Carriers do not experience symptoms, but may have hematologic abnormalitiesalpha3.7 is a pathogenic deletional alpha thalassemia variant. Based on this result, the patient's alpha globin status is -a/aa (alpha+ carrier), where "-" indicates a deleted or nonfunctional alpha globin gene.	N/A
Detection rate	>99%	N/A
Exons tested	NM 000517:1-3; NM 000558:1-3, ##	N/A

In addition to the exons sequenced, the following targeted variants were also tested: -(alpha)20.5, --BRIT, --MEDI, --MEDI, --SEA, --THAI or --FIL, -alpha3.7, -alpha4.2, HBA1+HBA2 deletion, Hb Constant Spring, Poly(A) AATAAA>AATA--, Poly(A) AATAAA>AATAAG, Poly(A) AATAAA>AATGAA, anti3.7, anti4.2, del HS-40.

REPRODUCTIVE RISK SUMMARY

Reproductive risk can be more accurately assessed after carrier screening of the partner. Genetic counseling is recommended to review results and risks in further detail.

What is Alpha Thalassemia, HBA1/HBA2-related?

Alpha thalassemia is an inherited blood disorder that affects hemoglobin. Hemoglobin is a protein found in red blood cells (RBCs) that makes it possible for RBCs to bind and carry oxygen throughout the body. Hemoglobin is made up of two different protein chains, which are referred to as alpha and beta chains (or alpha and beta globin). Alpha thalassemia is caused by harmful genetic changes (variants) in the *HBA1* and *HBA2* genes. These genes work together to make the alpha globin protein.

Most individuals inherit two normal copies of the *HBA1* gene (one from each parent) and two normal copies of the *HBA2* gene. This means that everyone has four gene copies that make up the alpha chain of their hemoglobin (two *HBA1* and two *HBA2*). Individuals can inherit a harmful change in one, two, three, or all four gene copies. There are also different types of changes within the *HBA1* and *HBA2* genes. Larger changes that remove most or all of the gene are called "deletional," while smaller changes are called "non-deletional."

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FEMALE

The symptoms associated with alpha thalassemia can range from a reduced number of RBCs (anemia) to fetal death. The different forms of alpha thalassemia are described below. Because there are several forms of alpha thalassemia and the risk for disease depends on a variety of factors, individuals with variants in *HBA1* and *HBA2* should consult a genetics professional to determine both their personal risk for disease and their reproductive risk.

SILENT CARRIER

Silent carriers of alpha thalassemia have a change in just one of the four alpha globin genes. Individuals with this finding are known as silent carriers because they typically do not have any disease symptoms or visible abnormalities in their RBCs.

ALPHA THALASSEMIA-TRAIT (CARRIER)

Carriers of alpha thalassemia have a change in two of the four alpha globin genes. Individuals with this finding generally have RBCs that are pale (hypochromic) and small (microcytic) when visualized. They may also have a mild decrease in the amount of RBCs (mild anemia). Symptoms of anemia can include tiredness, shortness of breath, lightheadedness, or dizziness. Individuals with only two functional alpha globin genes normally do not require treatment, as they generally do not exhibit symptoms of disease. However, there are reports of individuals with two non-deletional changes who have a diagnosis of a more severe form of the disease called hemoglobin H (HbH) (see below). One example of this is when individuals have two copies of the hemoglobin Constant Spring variant, which is common in the Southeast Asian population.

HEMOGLOBIN H DISEASE

HbH disease is typically the result of changes in three of the four alpha globin genes. This form is highly variable, and symptoms depend on the type of changes present in an individual. Some individuals with HbH do not have any symptoms, while some may have mild to moderate anemia. Other symptoms of HbH can include yellowing of the skin or eyes (jaundice), enlargement of the spleen, and other rarer complications. Although the severity of symptoms can vary, individuals with HbH disease are still considered affected with alpha thalassemia and treatment is often required.

HEMOGLOBIN BART SYNDROME

Hemoglobin Bart (Hb Bart) syndrome is typically the result of changes in all four of the alpha globin genes. Hb Bart is generally associated with fetal death due to the buildup of excess fluid in the body and tissues (hydrops fetalis). Most babies with this condition are stillborn or die soon after birth. Signs and symptoms in the newborn period can include severe anemia, enlargement of the liver and spleen, and birth defects of the heart, urinary system, and genitals. When fetal blood transfusions are successful, survival is possible; however, there is a high risk for intellectual and physical disability in these survivors.

DELETIONAL VS. NON-DELETIONAL VARIANTS

Historically, the predicted severity of alpha thalassemia was based on how many *HBA1* and *HBA2* genes were impacted. In general, individuals with changes in more of their alpha globin genes typically have more severe symptoms (i.e. variants in three or four genes result in more clinical features than variants in only one or two genes). However, research has shown that both the number *and* the type of changes determine the severity of an individual's symptoms. Larger changes that remove most or all of the gene are called "deletional," while smaller changes are called "non-deletional." Some non-deletional changes are associated with a higher risk for severe symptoms than deletional changes. Thus, the severity of an individual's condition can vary based on the combination of deletional and non-deletional changes they have. Given the many different factors that can influence an individual's personal and reproductive risk for alpha thalassemia, a consult with a genetics professional may be recommended.

How common is Alpha Thalassemia, HBA1/HBA2-related?

The incidence of alpha thalassemia in the population is approximately 1 in 10,000 births. However, the incidence of Hb Bart and HbH is much higher among individuals of Southeast Asian, Mediterranean, and Middle Eastern descent. Southeast Asia has the highest documented incidence, with estimates around 1 in 400 affected births.

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FEMALE

How is Alpha Thalassemia, HBA1/HBA2-related treated?

Treatment for HbH disease varies based on the severity of the symptoms. Many individuals will need a blood transfusion during times of severe illness (crises). This is usually a rare occurrence, and it can be caused by environmental stressors such as fever or exposure to specific medications. Individuals with more severe symptoms may require regular blood transfusions, folic acid supplementation, antibiotics during certain procedures, removal of excess iron from the body (iron chelation therapy), removal of the spleen, and possibly therapies to increase fetal hemoglobin levels.

Rare cases of survivors with Hb Bart syndrome have been reported when fetal blood transfusions were given, followed by regular treatments similar to those given to individuals with HbH disease. Treatment or surgical correction of birth defects may also be possible. There is a high risk for intellectual and physical disability in these survivors. These individuals may be candidates for hematopoietic stem cell transplantation.

What is the prognosis for an individual with Alpha Thalassemia, HBA1/HBA2-related?

The long-term outcome of HbH ultimately depends on the severity of the disease. Mild disease may be manageable with little effect on daily life. However, more severe disease will require frequent and regular therapy and may be associated with a shortened lifespan. When treated, individuals with HbH disease can have a near-normal lifespan.

Hb Bart syndrome is the most severe clinical condition related to alpha thalassemia, and death may occur during pregnancy (*in utero*) or in the newborn period. There may also be maternal complications during pregnancy if the fetus has Hb Bart syndrome. These complications include high blood pressure with fluid buildup and protein in the urine (preeclampsia); excessive amniotic fluid (polyhydramnios) or reduced amniotic fluid (oligohydramnios); hemorrhage; and premature delivery. When fetal blood transfusions are successful, survival is possible. However, there is a high risk for intellectual and physical disability in survivors.

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MALE

DOB: Ethnicity: African or African American Barcode:

FEMALE

Methods and Limitations

[Foresight Carrier Screen]: Sequencing with copy number analysis, spinal muscular atrophy, analysis of homologous regions, and alpha thalassemia (HBA1/HBA2) sequencing with targeted copy number analysis (Assay(s): DTS v5.0).

Sequencing with copy number analysis

Hybridization capture-based target enrichment, high-throughput sequencing, and read-depth-based copy number analysis are used to analyze the genes listed in the Conditions Tested section of the report. Except where otherwise noted, the region of interest (ROI) comprises the indicated coding regions and 20 non-coding bases flanking each region. The ROI is sequenced to a minimum acceptable read depth, and the sequences are compared to a reference genomic sequence (Genome Reference Consortium Human Build 37 [GRCh37]/hg19). On average, 99% of all bases in the ROI are sequenced at a read depth that is greater than the minimum read depth. Sequence variants may not be detected in areas of lower sequence coverage. Insertions and deletions may not be detected as accurately as single-nucleotide variants. Select genes or regions for which pseudogenes or other types of genomic features (e.g., homology or homopolymens) impede reliable variant detection may be assayed using alternate technology, have reduced sensitivity, or be excluded from the ROI. CFTR and DMD testing includes analysis for full exon-level deletions and duplications with a sensitivity of ~99%. Only full exon-level deletions and larger are assayed for other genes on the panel with a sensitivity of ≥75%. Partial exon and single or multi-exon deletions in regions of genomic or assay complexity may have reduced sensitivity or may be excluded from the ROI. Selected founder deletions may be detected at higher sensitivity. Affected exons and/or breakpoints of copy number variants (CNVs) are estimated from tiled regions and, when available, using junction reads. Only exons included in the region affected by the CNV are included in the variant nomenclature. In some cases, the CNV may be larger or smaller than indicated and/or may involve breakpoint sequence complexity that is not reflected in the variant nomenclature. If GJB2 is in the ordered ROI, large upstream deletions involving the GJB6 and/or CRYL1 genes that may affect the expression of GJB2 are also analyze

Spinal muscular atrophy

Targeted copy number analysis via hybridization capture-based target enrichment and high-throughput sequencing is used to determine the copy number of exon 7 of the SMN1 gene. In an unknown number of cases, other genetic variation may interfere with this analysis. Some individuals with two copies of SMN1 are "silent" carriers with both SMN1 genes on one chromosome and no copies of the gene on the other chromosome. This is more likely in individuals who have two copies of the SMN1 gene and are positive for the g.27134T>G single-nucleotide polymorphism (SNP) (PMID: 9199562, 23788250, and 28676062), which affects the reported residual risk. Ashkenazi Jewish or Asian patients with this genotype have a high post-test likelihood of being carriers for SMA and are reported as carriers. The g.27134T>G SNP is only reported in individuals who have two apparent copies of SMN1. Further, individuals who are negative for the g.27134T>G SNP, and who are reported as having two copies of the SMN1 gene may have additional SMN1 gene copies. If additional unreported SMN1 copies are present, the reported residual risk for these individuals may be overestimated. Other rare carrier states, where complex exchanges exist between gene copies or chromosomes, may not be detected by the assay.

Analysis of homologous regions

Hybridization capture-based target enrichment, high-throughput sequencing, targeted genotyping, and read-depth-based copy number analysis are used to determine the number of functional gene copies and/or the presence of selected variants in genes that have significant homology to other genomic regions. The precise breakpoints of large deletions in these genes cannot be determined but are instead estimated from copy number analysis. Pseudogenes may interfere with this analysis, especially when many pseudogene copies are present. In some instances, additional unreported pseudogene-derived variants may be present in the same gene copy as the reported variant (e.g. chimeric alleles). The ability of other assays to detect this complex genotype is dependent on the specific test methodology utilized.

If CYP21A2 is tested, patients who have one or more additional copies of the CYP21A2 gene and a pathogenic variant may or may not be a carrier of 21-hydroxylase deficient congenital adrenal hyperplasia (CAH), depending on the chromosomal location of the variants (i.e., phase). Benign CYP21A2 gene duplications and/or triplications will only be reported in this context. Some individuals with two functional CYP21A2 gene copies may be "silent" carriers, with two gene copies resulting from a duplication on one chromosome and a gene deletion on the other chromosome. This and other rare carrier states, where complementary changes exist between gene copies or chromosomes, may not be detected by the assay. If the 30kb deletion (aka CYP21A2 deletion) is reported, the extent of impacted gene sequence may be attenuated in length or may extend through the end of the gene (i.e. full gene deletion). If present, an attenuated deletion may be associated with less severe or non-classic CAH (PMID: 22156666, 20970527, 30611409, 29450859). If further testing is pursued for the 30kb deletion, the methodology should accommodate deletions of variable size. Given that the true incidence of non-classic CAH is unknown, the residual carrier and reproductive risk estimates on the report are based on the published incidence for classic CAH. However, the published prevalence of non-classic CAH is highest in individuals of Ashkenazi Jewish, Hispanic, Italian, and Yugoslav descent. Therefore, the residual and reproductive risks are likely an underestimate for CAH, especially in the aforementioned populations, as they do not account for non-classic CAH.

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MALE

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FEMALE

Alpha thalassemia (HBA1/HBA2) sequencing with targeted copy number analysis

Hybridization capture-based target enrichment, high-throughput sequencing, and copy number analysis are used to identify sequence variation and functional gene copies within the region of interest (ROI) of HBA1 and HBA2, which includes the exons listed in the assay specifications plus 20 intronic flanking bases. In a minority of cases where genomic features (e.g., homopolymers) compromise calling fidelity, the affected intronic bases are not included in the ROI. The ROI is sequenced to a minimum acceptable read depth, and the sequences are compared to a reference genomic sequence (Genome Reference Consortium Human Build 37 [GRCh37]/hg19). On average, 99% of all bases in the ROI are sequenced at a read depth that is greater than the minimum read depth. Sequence variants may not be detected in areas of lower sequence coverage. Insertions and deletions may not be detected as accurately as single-nucleotide variants. For large deletions or duplications in these genes, the precise breakpoints cannot be determined but are instead estimated from copy number analysis. This assay has been validated to detect up to two additional copies of each alpha globin gene. In rare instances, more than two additional copies of either gene may be present but will not be reported. Extensive sequence homology exists between HBA1 and HBA2. This sequence homology can prevent certain variants from being localized to one gene over the other. In these instances, variant nomenclature will be provided for both genes. If follow-up testing is indicated for patients with the nomenclature provided for both genes, both HBA1 and HBA2 should be tested. Some individuals with four functional alpha globin gene copies may be "silent" carriers, with three gene copies resulting from triplication on one chromosome and a single gene deletion on the other chromosome. This and other rare carrier states, where complementary changes exist between gene copies or chromosomes, may not be detected by the assay.

Interpretation of reported variants

The interpretation and classification of variants reflect the current state of Myriad's scientific understanding based on information available at the time of variant assessment. Variants are classified according to internally defined criteria, which are compatible with the ACMG Standards and Guidelines for the Interpretation of Sequence Variants (PMID: 25741868). Variants that have been determined by Myriad to be disease-causing or likely disease-causing (i.e., pathogenic or likely pathogenic) are reported. Benign variants, likely benign variants, variants of uncertain clinical significance (VUS), and variants not directly associated with the specified disease phenotype(s) are not reported. Variants and/or haplotypes associated with a non-Mendelian risk for disease are only reported on request. Variant classification and interpretation may change over time for a variety of reasons, including but not limited to, improvements to classification techniques, availability of additional scientific information, and observation of a variant in additional individuals. If the classification of one or more variants identified in this patient changes, an updated report reflecting the new classification generally will not be issued. If a report is updated or re-issued for other reasons, the variants reported may change based on their classification at the time of re-issue. This can include changes to the variants displayed in gene-specific 'variants tested' sections. Healthcare providers may contact Myriad directly to request updated variant classification information specific to this test result.

Limitations

The Foresight® Carrier Screen is designed to detect and report germline (constitutional) alterations. Mosaic (somatic) variation may not be detected, and if it is detected, it may not be reported. If more than one variant is detected in a gene, additional studies may be necessary to determine if those variants reside on the same chromosome or different chromosomes (i.e., phase). This assay is not validated to detect sex chromosome copy number variations; however, limited sex chromosome analysis is performed for quality control purposes. If present, sex chromosome variations including copy number variations, aneuploidies, aneusomies, rearrangements, or other structural changes may significantly reduce test sensitivity and accuracy of risk estimates. Variant interpretation and residual and reproductive risk estimates assume a normal karyotype. The Foresight® Carrier Screen reports carrier status for only genes/phenotypes specified by the ordering healthcare provider. Other heritable and non-heritable conditions and defects exist that are not addressed by this test. Furthermore, not all forms of genetic variation are detected by this assay (e.g., duplications [except in specified genes], chromosomal rearrangements, structural abnormalities, etc.). Additional testing may be appropriate for some individuals. Pseudogenes and other regions of homology may interfere with this analysis. In an unknown number of cases, other genetic variation may interfere with variant detection and/or classification leading to false negative or false positive results. Rare carrier states where complementary changes exist between genes or chromosomes may not be detected by the assay. Other possible sources of diagnostic error include sample mix-up, trace contamination, bone marrow transplantation, blood transfusions, variants that interfere with analysis, technical or analytical errors, and other sources.

Detection rates are determined using published scientific literature and/or reputable databases, when available, to estimate the fraction of disease alleles, weighted by frequency, that the methodology is predicted to be able or unable to detect. Detection rates are approximate and only account for analytical sensitivity. Certain variants that have been previously described in the literature may not be reported if there is insufficient evidence for pathogenicity. Detection rates do not account for the disease specific rates of *de novo* variation.

This test was developed, and its performance characteristics determined, by Myriad Women's Health, Inc. It has not been cleared or approved by the US Food and Drug Administration (FDA). The FDA does not require this test to go through premarket review. This test is used for clinical purposes. It should not be regarded as investigational or for research. These results are adjunctive to the ordering physician's evaluation.

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Patient:

ARUP Accession: 25-303-114209



MALE

DOB:
Ethnicity: African or African
American
Barcode:

FEMALE

Incidental Findings

Unless otherwise indicated, these results and interpretations are limited to the specific disease panel(s) requested by the ordering healthcare provider. In some cases, standard data analyses may identify genetic findings beyond the region(s) of interest specified by the test, and such findings may not be reported. These findings may include genomic abnormalities with major, minor, or no clinical significance.

If you have questions or would like more information about any of the test methods or limitations, please contact (888) 268-6795.

Resources

GENOME CONNECT | http://www.genomeconnect.org

Patients can share their reports using research registries such as Genome Connect, an online research registry building a genetics and health knowledge base. Genome Connect provides patients, physicians, and researchers an opportunity to share genetic information to support the study of the impact of genetic variation on health conditions.

SENIOR LABORATORY DIRECTOR

Kenla R Bowles

Karla R. Bowles, PhD, FACMG, CGMB

Report content approved by Bradford Coffee, PhD, FACMG, CGMB on Nov 16, 2025

Genetic testing was completed by CLIA accredited laboratories in the United States located at: 233 E Grand Ave, South San Francisco, CA 94080. CLIA IDs: 05D2299797.

The following personnel codes and digital laboratory director signature may reflect remote review of digital data: 6605, 6609, 6633

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MALE

DOB:
Ethnicity: African or African
American
Barcode:

FEMALE

Conditions Tested

6-pyruvoyl-tetrahydropterin Synthase Deficiency - Gene: PTS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000317:1-6. Detection Rate: African or African American >99%.

Adenosine Deaminase Deficiency - Gene: ADA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000022:1-12. Detection Rate: African or African American 98%.

Alpha Thalassemia, HBA1/HBA2-related - Genes: HBA1, HBA2. Autosomal Recessive. Alpha thalassemia (HBA1/HBA2) sequencing with targeted copy number analysis. Exons: NM_000517:1-3; NM_000558:1-3. Variants (16): -(alpha)20.5, --BRIT, --MEDI, --MEDII, --SEA, --THAI or --FIL, -alpha3.7, -alpha4.2, HBA1+HBA2 deletion, Hb Constant Spring, Poly(A) AATAAA>AATA--, Poly(A) AATAAA>AATAAG, Poly(A) AATAAA>AATGAA, anti3.7, anti4.2, del HS-40. Detection Rate: African or African American > 99%.

Alpha-mannosidosis - Gene: MAN2B1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000528:1-23. Detection Rate: African or African American 98%

Alpha-sarcoglycanopathy - Gene: SGCA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000023:1-9. Detection Rate: African or African American > 99%

Alport Syndrome, COL4A3-related - Gene: COL4A3. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000091:1-52. Detection Rate: African or African American 94%.

Alport Syndrome, COL4A4-related - Gene: COL4A4. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000092:2-48. Detection Rate: African or African American >99%.

Alstrom Syndrome - Gene: ALMS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_015120:1-23. Detection Rate: African or African American > 99%.

Andermann Syndrome - Gene: SLC12A6. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_133647:1-25. Detection Rate: African or African American > 99%.

Argininemia - Gene: ARG1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000045:1-8. Detection Rate: African or African American 97%. Argininosuccinic Aciduria - Gene: ASL. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001024943:1-16. Detection Rate: African or African American > 99%.

Aspartylglucosaminuria - Gene: AGA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000027:1-9. Detection Rate: African or African American > 99%.

Ataxia with Vitamin E Deficiency - Gene: TTPA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000370:1-5. Detection Rate: African or African American > 99%.

Ataxia-telangiectasia - Gene: ATM. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000051:2-63. Detection Rate: African or African American 96%.

ATP7A-related Disorders - Gene: ATP7A. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000052:2-23. Detection Rate: African or African American 90%.

Autoimmune Polyglandular Syndrome Type 1 - Gene: AIRE. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000383:1-14. Detection Rate: African or African American >99%.

Autosomal Recessive Osteopetrosis Type 1 - Gene: TCIRG1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_006019:2-20. Detection Rate: African or African American 96%.

Autosomal Recessive Polycystic Kidney Disease, PKHD1-related - Gene: PKHD1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_138694:2-67. Detection Rate: African or African American >99%.

Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay - Gene: SACS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_014363:2-10. Detection Rate: African or African American 99%.

Bardet-Biedl Syndrome, BBS1-related - Gene: BBS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_024649:1-17. Detection Rate: African or African American >99%.

Bardet-Biedl Syndrome, BBS10-related - Gene: BBS10. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_024685:1-2. Detection Rate: African or African American >99%.

Bardet-Biedl Syndrome, BBS12-related - Gene: BBS12. Autosomal Recessive. Sequencing with copy number analysis. Exon: NM_152618:2. Detection Rate: African or African American >99%.

Bardet-Biedl Syndrome, BBS2-related - Gene: BBS2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_031885:1-17. Detection Rate: African or African American >99%.

BCS1L-related Disorders - Gene: BCS1L. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_004328:3-9. Detection Rate: African or African American >99%.

Beta Globin-related Hemoglobinopathy (Including Beta Thalassemia and Sickle Cell Disease) - Gene: HBB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000518:1-3. Detection Rate: African or African American >99%.

Beta-sarcoglycanopathy - Gene: SGCB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000232:1-6. Detection Rate: African or African American >99%.

Biotinidase Deficiency - Gene: BTD. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000060:1-4. Detection Rate: African or African American > 99%.

Bloom Syndrome - Gene: BLM. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000057:2-22. Detection Rate: African or African American >99%.

Calpainopathy - Gene: CAPN3. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000070:1-24. Detection Rate: African or African American 99%.

Canavan Disease - Gene: ASPA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000049:1-6. Detection Rate: African or African American 89%.

Carbamoylphosphate Synthetase I Deficiency - Gene: CPS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001875:1-38. Detection Rate: African or African American >99%.

Carnitine Palmitoyltransferase IA Deficiency - Gene: CPT1A. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001876:2-19. Detection Rate: African or African American >99%.

Carnitine Palmitoyltransferase II Deficiency - Gene: CPT2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000098:1-5. Detection Rate: African or African American >99%.

Cartilage-hair Hypoplasia - Gene: RMRP. Autosomal Recessive. Sequencing with copy number analysis. Exon: NR_003051:1. Detection Rate: African or African American 299%

Cerebrotendinous Xanthomatosis - Gene: CYP27A1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000784:1-9. Detection Rate: African or African American >99%.

Citrullinemia Type 1 - Gene: ASS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000050:3-16. Detection Rate: African or African American > 99%.

CLN3-related Disorders - Gene: CLN3. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001042432:2-16. Detection Rate: African or African American >99%.

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Patient:

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CLN5-related Neuronal Ceroid Lipofuscinosis - Gene: CLN5. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_006493:1-4. Detection Rate: African or African American >99%.

CLN8-related Neuronal Ceroid Lipofuscinosis - Gene: CLN8. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_018941:2-3. Detection Rate: African or African American >99%.

Cohen Syndrome - Gene: VPS13B. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_017890:2-62. Detection Rate: African or African American 97%.

Combined Pituitary Hormone Deficiency, PROP1-related - Gene: PROP1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_006261:1-3. Detection Rate: African or African American >99%.

Congenital Adrenal Hyperplasia, CYP11B1-related - Gene: CYP11B1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000497:1-9. Detection Rate: African or African American 97%.

Congenital Adrenal Hyperplasia, CYP21A2-related - Gene: CYP21A2. Autosomal Recessive. Analysis of homologous regions. Variants (13): CYP21A2 deletion, CYP21A2 duplication, CYP21A2 duplication, CYP21A2 triplication, G111Vfs*21, I173N, L308Ffs*6, P31L, Q319*, Q319*+CYP21A2dup, R357W, V282L, [I237N;V238E;M240K], c.293-13C>G. Detection Rate: African or African American 92%.

Congenital Disorder of Glycosylation, ALG6-related - Gene: ALG6. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_013339:2-15. Detection Rate: African or African American >99%.

Congenital Disorder of Glycosylation, MPI-related - Gene: MPI. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_002435:1-8. Detection Rate: African or African American > 99%.

Congenital Disorder of Glycosylation, PMM2-related - Gene: PMM2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000303:1-8.

Detection Rate: African or African American >99%.

Costeff Optic Atrophy Syndrome - Gene: OPA3, Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_025136:1-2. Detection Rate: African or African American >99%.

Cystic Fibrosis - Gene: CFTR. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000492:1-27. IVS8-5T allele analysis is only reported in the presence of the R117H mutation. Detection Rate: African or African American >99%.

Cystinosis - Gene: CTNS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_004937:3-12. Detection Rate: African or African American >00%.

Delta-sarcoglycanopathy - Gene: SGCD. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000337:2-9. Detection Rate: African or African American 06%

Dihydrolipoamide Dehydrogenase Deficiency - Gene: DLD. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000108:1-14. Detection Rate: African or African American >99%.

Dysferlinopathy - Gene: DYSF. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_003494:1-55. Detection Rate: African or African American 98%.

Dystrophinopathy (Including Duchenne/Becker Muscular Dystrophy) - Gene: DMD. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_004006:1-79. Detection Rate: African or African American 99%.

ERCC6-related Disorders - Gene: ERCC6. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000124:2-21. Detection Rate: African or African American 96%.

ERCC8-related Disorders - Gene: ERCC8. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000082:1-12. Detection Rate: African or African American 97%.

EVC-related Ellis-van Creveld Syndrome - Gene: EVC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_153717:1-21. Detection Rate: African or African American 96%.

EVC2-related Ellis-van Creveld Syndrome - Gene: EVC2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_147127:1-22. Detection Rate: African or African American 98%.

Fabry Disease - Gene: GLA. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000169:1-7. Detection Rate: African or African American 98%. Familial Dysautonomia - Gene: ELP1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_003640:2-37. Detection Rate: African or African American > 99%.

Familial Hyperinsulinism, ABCC8-related - Gene: ABCC8. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000352:1-39. Detection Rate: African or African American >99%.

Familial Hyperinsulinism, KCNJ11-related - Gene: KCNJ11. Autosomal Recessive. Sequencing with copy number analysis. Exon: NM_000525:1. Detection Rate: African or African American >99%.

Familial Mediterranean Fever - Gene: MEFV. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000243:1-10. Detection Rate: African or African American >99%.

Fanconi Anemia Complementation Group A - Gene: FANCA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000135:1-43. Detection Rate: African or African American 92%.

Fanconi Anemia, FANCC-related - Gene: FANCC. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_000136:2-15. Detection Rate: African or African American >99%.

FKRP-related Disorders - Gene: FKRP. Autosomal Recessive. Sequencing with copy number analysis. Exon: NM_024301:4. Detection Rate: African or African American >99%.

FKTN-related Disorders - Gene: FKTN. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001079802:3-11. Detection Rate: African or African American >99%.

Free Sialic Acid Storage Disorders - Gene: SLC17A5. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_012434:1-11. Detection Rate: African or African American 98%.

Galactokinase Deficiency - Gene: GALK1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000154:1-8. Detection Rate: African or African American >99%.

Galactosemia - Gene: GALT. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000155:1-11. Detection Rate: African or African American > 99%.

Gamma-sarcoglycanopathy - Gene: SGCG. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000231:2-8. Detection Rate: African or African American 87%.

Gaucher Disease - Gene: GBA1. Autosomal Recessive. Analysis of homologous regions. Variants (10): D409V, D448H, IVS2+1G>A, L444P, N370S, R463C, R463H, R496H, V394L, p.L294fs*18. Detection Rate: African or African American 60%. GLB1-related Disorders - Gene: GLB1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000404:1-16. Detection Rate: African or African American >99%.

Glutaric Acidemia, GCDH-related - Gene: GCDH. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_000159:2-12. Detection Rate: African or African American >99%.

Glycine Encephalopathy, AMT-related - Gene: AMT. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_000481:1-9. Detection Rate:
African or African American >99%.

Glycine Encephalopathy, GLDC-related - Gene: GLDC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000170:1-25. Detection Rate: African or African American 94%.

Glycogen Storage Disease Type Ia - Gene: G6PC1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000151:1-5. Detection Rate: African or African American 98%.

Glycogen Storage Disease Type lb - Gene: SLC37A4. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001164277:3-10. Detection Rate: African or African American >99%.

Glycogen Storage Disease Type III - Gene: AGL. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000642:2-34. Detection Rate: African or African American >99%.

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GNE Myopathy - Gene: GNE. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001128227:1-12. Detection Rate: African or African American >99%.

GNPTAB-related Disorders - Gene: GNPTAB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_024312:1-21. Detection Rate: African or African American > 99%.

HADHA-related Disorders - Gene: HADHA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000182:1-20. Detection Rate: African or African American > 99%.

Hereditary Fructose Intolerance - Gene: ALDOB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000035:2-9. Detection Rate: African or African American > 99%.

Hexosaminidase A Deficiency (Including Tay-Sachs Disease) - Gene: HEXA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000520:1-14. Detection Rate: African or African American >99%.

HMG-CoA Lyase Deficiency - Gene: HMGCL. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000191:1-9. Detection Rate: African or African American > 99%.

Holocarboxylase Synthetase Deficiency - Gene: HLCS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000411:4-12. Detection Rate: African or African American >99%.

Homocystinuria, CBS-related - Gene: CBS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000071:3-17. Detection Rate: African or African American > 99%.

HSD17B4-related Disorders - Gene: HSD17B4. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000414:1-24. Detection Rate: African or African American 98%.

Hydrolethalus Syndrome - Gene: HYLS1. Autosomal Recessive. Sequencing with copy number analysis. Exon: NM_145014:4. Detection Rate: African or African American > 99%.

Hypophosphatasia - Gene: ALPL. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000478:2-12. Detection Rate: African or African American > 99%.

Isovaleric Acidemia - Gene: IVD. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_002225;1-12. Detection Rate: African or African American > 99%

Joubert Syndrome 2 - Gene: TMEM216. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001173990:1-5. Detection Rate: African or African American, 2004

Junctional Epidermolysis Bullosa, LAMA3-related - Gene: LAMA3. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000227:1-38. Detection Rate: African or African American >99%.

Junctional Epidermolysis Bullosa, LAMB3-related - Gene: LAMB3. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000228:2-23. Detection Rate: African or African American >99%.

Junctional Epidermolysis Bullosa, LAMC2-related - Gene: LAMC2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_005562:1-23. Detection Rate: African or African American >99%.

Krabbe Disease - Gene: GALC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000153:1-17. Detection Rate: African or African American > 99%

Leigh Syndrome, French-Canadian Type - Gene: LRPPRC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_133259:1-38. Detection Rate: African or African American > 99%.

Lipoid Congenital Adrenal Hyperplasia - Gene: STAR. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000349:1-7. Detection Rate: African or African American >99%.

Lysosomal Acid Lipase Deficiency - Gene: LIPA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000235:2-10. Detection Rate: African or African American 98%.

Maple Syrup Urine Disease Type Ia - Gene: BCKDHA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000709:1-9. Detection Rate: African or African American >99%.

Maple Syrup Urine Disease Type Ib - Gene: BCKDHB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_183050:1-10. Detection Rate: African or African American >99%.

Maple Syrup Urine Disease Type II - Gene: DBT. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001918:1-11. Detection Rate: African or African American 97%

Medium-chain Acyl-CoA Dehydrogenase Deficiency - Gene: ACADM. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000016:1-12. Detection Rate: African or African American >99%.

Megalencephalic Leukoencephalopathy with Subcortical Cysts - Gene: MLC1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_015166:2-12. Detection Rate: African or African American >99%.

Metachromatic Leukodystrophy - Gene: ARSA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000487:1-8. Detection Rate: African or African American >99%.

Methylmalonic Acidemia, cblA Type - Gene: MMAA. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_172250:2-7. Detection Rate: African or African American >99%.

Methylmalonic Acidemia, cblB Type - Gene: MMAB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_052845:1-9. Detection Rate: African or African American >99%.

Methylmalonic Acidemia, MMUT-related - Gene: MMUT. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000255:2-13. Detection Rate: African or African American > 99%.

Methylmalonic Aciduria and Homocystinuria, cblC Type - Gene: MMACHC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_015506:1-4. Detection Rate: African or African American >99%.

MKS1-related Disorders - Gene: MKS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_017777:1-18. Detection Rate: African or African American >99%.

Mucolipidosis III Gamma - Gene: GNPTG. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_032520:1-11. Detection Rate: African or African American 98%.

Mucolipidosis IV - Gene: MCOLN1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_020533:1-14. Detection Rate: African or African American >99%.

Mucopolysaccharidosis Type I - Gene: IDUA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000203:1-14. Detection Rate: African or African American 97%.

Mucopolysaccharidosis Type II - Gene: IDS. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000202:1-9. Detection Rate: African or African American 80%

Mucopolysaccharidosis Type IIIA - Gene: SGSH. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000199:1-8. Detection Rate: African or African American > 99%.

Mucopolysaccharidosis Type IIIB - Gene: NAGLU. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000263:1-6. Detection Rate: African or African American >99%.

Mucopolysaccharidosis Type IIIC - Gene: HGSNAT. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_152419:1-18. Detection Rate: African or African American >99%.

Muscular Dystrophy, LAMA2-related - Gene: LAMA2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000426:1-43,45-65. Detection Rate: African or African American 98%.

MYO7A-related Disorders - Gene: MYO7A. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000260:2-49. Detection Rate: African or African American >99%.

NEB-related Nemaline Myopathy - Gene: NEB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001271208:3-80,117-183. Detection Rate: African or African American 92%.

Nephrotic Syndrome, NPHS1-related - Gene: NPHS1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_004646:1-29. Detection Rate: African or African American >99%.

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Nephrotic Syndrome, NPHS2-related - Gene: NPHS2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_014625:1-8. Detection Rate: African or African American >99%.

Neuronal Ceroid Lipofuscinosis, CLN6-related - Gene: CLN6. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_017882:1-7. Detection Rate: African or African American 96%.

Neuronal Ceroid Lipofuscinosis, PPT1-related - Gene: PPT1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000310:1-9. Detection Rate: African or African American >99%.

Niemann-Pick Disease Type C1 - Gene: NPC1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000271:1-25. Detection Rate: African or African American >99%.

Niemann-Pick Disease Type C2 - Gene: NPC2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_006432:1-5. Detection Rate: African or African American > 99%.

Niemann-Pick Disease, SMPD1-related - Gene: SMPD1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000543:1-6. Detection Rate: African or African American >99%.

Nijmegen Breakage Syndrome - Gene: NBN. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_002485:1-16. Detection Rate: African or African American > 99%.

Nonsyndromic Hearing Loss, GJB2-related - Gene: GJB2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_004004:1-2. Detection Rate: African or African American >99%.

Ornithine Transcarbamylase Deficiency - Gene: OTC. X-linked Recessive.

Sequencing with copy number analysis. Exons: NM_000531:1-10. Detection Rate: African or African American 97%.

PCCA-related Propionic Acidemia - Gene: PCCA. Autosomal Recessive.
Sequencing with copy number analysis. Exons: NM_000282:1-24. Detection Rate: African or African American 95%.

PCCB-related Propionic Acidemia - Gene: PCCB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000532:1-15. Detection Rate: African or African American > 99%.

PCDH15-related Disorders - Gene: PCDH15. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_033056:2-33. Detection Rate: African or African American 93%

Pendred Syndrome - Gene: SLC26A4. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000441:2-21. Detection Rate: African or African American > 99%.

Peroxisome Biogenesis Disorder Type 1 - Gene: PEX1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000466:1-24. Detection Rate: African or African American >99%.

Peroxisome Biogenesis Disorder Type 3 - Gene: PEX12. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000286:1-3. Detection Rate: African or African American >99%.

Peroxisome Biogenesis Disorder Type 4 - Gene: PEX6. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000287:1-17. Detection Rate: African or African American 97%.

Peroxisome Biogenesis Disorder Type 5 - Gene: PEX2. Autosomal Recessive. Sequencing with copy number analysis. Exon: NM_000318:4. Detection Rate: African or African American > 99%.

Peroxisome Biogenesis Disorder Type 6 - Gene: PEX10. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_153818:1-6. Detection Rate: African or African American >99%.

PEX7-related Disorders - Gene: PEX7. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000288:1-10. Detection Rate: African or African American > 99%.

Phenylalanine Hydroxylase Deficiency - Gene: PAH. Autosomal Recessive.

Sequencing with copy number analysis. Exons: NM_000277:1-13. Detection Rate:

African or African American > 99%.

POMGNT1-related Disorders - Gene: POMGNT1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_017739:2-22. Detection Rate: African or African American 96%.

Pompe Disease - Gene: GAA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000152:2-20. Detection Rate: African or African American >99%.

Primary Carnitine Deficiency - Gene: SLC22A5. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_003060:1-10. Detection Rate: African or African American >99%.

Primary Hyperoxaluria Type 1 - Gene: AGXT. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000030:1-11. Detection Rate: African or African American >99%.

Primary Hyperoxaluria Type 2 - Gene: GRHPR. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_012203:1-9. Detection Rate: African or African American >99%.

Primary Hyperoxaluria Type 3 - Gene: HOGA1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_138413:1-7. Detection Rate: African or African American >99%.

Pycnodysostosis - Gene: CTSK. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000396:2-8. Detection Rate: African or African American >99%.

Pyruvate Carboxylase Deficiency - Gene: PC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000920:3-22. Detection Rate: African or African American >99%.

RTEL1-related Disorders - Gene: RTEL1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001283009:2-35. Detection Rate: African or African American 99%.

Sandhoff Disease - Gene: HEXB. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000521:1-14. Detection Rate: African or African American 98%.

Short-chain Acyl-CoA Dehydrogenase Deficiency - Gene: ACADS. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000017:1-10. Detection Rate: African or African American >99%.

Sjogren-Larsson Syndrome - Gene: ALDH3A2, Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000382:1-10. Detection Rate: African or African American 96%.

SLC26A2-related Disorders - Gene: SLC26A2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000112:2-3. Detection Rate: African or African American >99%

Smith-Lemli-Opitz Syndrome - Gene: DHCR7. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001360:3-9. Detection Rate: African or African American >99%.

Spastic Paraplegia Type 15 - Gene: ZFYVE26. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_015346:2-42. Detection Rate: African or African American >99%.

Spinal Muscular Atrophy - Gene: SMN1. Autosomal Recessive. Spinal muscular atrophy. Variant (1): SMN1 copy number. Detection Rate: African or African American 71%.

Spondylothoracic Dysostosis - Gene: MESP2. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_001039958:1-2. Detection Rate: African or African American 22%.

TGM1-related Autosomal Recessive Congenital Ichthyosis - Gene: TGM1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM 000359:2-15. Detection Rate: African or African American >99%.

TPP1-related Neuronal Ceroid Lipofuscinosis - Gene: TPP1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000391:1-13. Detection Rate: African or African American >99%.

Tyrosine Hydroxylase Deficiency - Gene: TH. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_199292:1-14. Detection Rate: African or African American >99%.

Tyrosinemia Type I - Gene: FAH. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000137:1-14. Detection Rate: African or African American > 99%.

Tyrosinemia Type II - Gene: TAT. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000353:2-12. Detection Rate: African or African American >99%.

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Chart continues on following page(s)



RESULTS RECIPIENT

ARUP LABORATORIES

Attn:

NPI:

Report Date: 11/16/2025

MALE

DOB:

Ethnicity: African or African

American

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FEMALE

USH1C-related Disorders - Gene: USH1C. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_005709:1-21. Detection Rate: African or African American > 99%.

USH2A-related Disorders - Gene: USH2A. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_206933:2-72. Detection Rate: African or African

Usher Syndrome Type 3 - Gene: CLRN1. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_174878:1-3. Detection Rate: African or African American > 99%.

Very-long-chain Acyl-CoA Dehydrogenase Deficiency - Gene: ACADVL. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000018:1-20. Detection Rate: African or African American >99%.

Wilson Disease - Gene: ATP7B. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000053:1-21. Detection Rate: African or African America. 9.099

X-linked Adrenal Hypoplasia Congenita - Gene: NR0B1. X-linked Recessive.
Sequencing with copy number analysis. Exons: NM_000475:1-2. Detection Rate: African or African American 97%.

X-linked Adrenoleukodystrophy - Gene: ABCD1. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000033:1-6. Detection Rate: African or African American 77%.

X-linked Alport Syndrome - Gene: COL4A5. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000495:1-51. Detection Rate: African or African American 96%.

X-linked Juvenile Retinoschisis - Gene: RS1. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000330:1-6. Detection Rate: African or African American 98%

X-linked Myotubular Myopathy - Gene: MTM1. X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000252:2-15. Detection Rate: African or African American 96%.

X-linked Severe Combined Immunodeficiency - Gene: IL2RG, X-linked Recessive. Sequencing with copy number analysis. Exons: NM_000206:1-8. Detection Rate: African or African American >99%.

Xeroderma Pigmentosum Group A - Gene: XPA. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_000380:1-6. Detection Rate: African or African American >99%.

Xeroderma Pigmentosum Group C - Gene: XPC. Autosomal Recessive. Sequencing with copy number analysis. Exons: NM_004628:1-16. Detection Rate: African or African American 97%.

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Patient:

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FEMALE

Risk Calculations

Below are the risk calculations for all conditions tested. Negative results do not rule out the possibility of being a carrier. Residual risk is an estimate of each patient's post-test likelihood of being a carrier, while the reproductive risk represents an estimated likelihood that the patients' future children could inherit each disease. These risks are inherent to all carrier-screening tests, may vary by ethnicity, are predicated on a negative family history, and are present even given a negative test result. Inaccurate reporting of ethnicity may cause errors in risk calculation. In addition, average carrier rates are estimated using incidence or prevalence data from published scientific literature and/or reputable databases, where available, and are incorporated into residual risk calculations for each population/ethnicity. When population-specific data is not available for a condition, average worldwide incidence or prevalence is used. Further, incidence and prevalence data are only collected for the specified phenotypes (which include primarily the classic or severe forms of disease) and may not include alternate or milder disease manifestations associated with the gene. Actual incidence rates, prevalence rates, and carrier rates, and therefore actual residual risks, may be higher or lower than the estimates provided. Carrier rates, incidence/prevalence, and/or residual risks are not provided for some genes with biological or heritable properties that would make these estimates inaccurate. A 'f' symbol indicates a positive result. See the full clinical report for interpretation and details. The reproductive risk presented is based on a hypothetical pairing with a partner of the same ethnic group.

Disease	Residual Risk	Reproductive Risk
5-pyruvoyl-tetrahydropterin Synthase Deficiency	< 1 in 50,000	< 1 in 1,000,000
Adenosine Deaminase Deficiency	1 in 22,000	< 1 in 1,000,000
-	-alpha3.7 [chr16:g.(?_226678)_(227520_?)del]	
Alpha Thalassemia, HBA1/HBA2-related	heterozygote [†]	Not calculated
	Alpha globin status: -a/aa.	
Alpha-mannosidosis	1 in 15,000	< 1 in 1,000,000
Alpha-sarcoglycanopathy	1 in 34,000	< 1 in 1,000,000
Alport Syndrome, COL4A3-related	1 in 5,800	< 1 in 1,000,000
Alport Syndrome, COL4A4-related	1 in 35,000	< 1 in 1,000,000
Alstrom Syndrome	< 1 in 50,000	< 1 in 1,000,000
Andermann Syndrome	< 1 in 50,000	< 1 in 1,000,000
Argininemia	1 in 12,000	< 1 in 1,000,000
Argininosuccinic Aciduria	1 in 13,000	< 1 in 1,000,000
Aspartylglucosaminuria	< 1 in 50,000	< 1 in 1,000,000
Ataxia with Vitamin E Deficiency	< 1 in 50,000	< 1 in 1,000,000
Ataxia-telangiectasia	1 in 4,200	< 1 in 1,000,000
ATP7A-related Disorders	1 in 800,000	1 in 150,000
Autoimmune Polyglandular Syndrome Type 1	1 in 18,000	< 1 in 1,000,000
autosomal Recessive Osteopetrosis Type 1	1 in 8,900	< 1 in 1,000,000
utosomal Recessive Polycystic Kidney Disease, PKHD1-related	1 in 8,100	< 1 in 1,000,000
autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay	< 1 in 44,000	< 1 in 1,000,000
Bardet-Biedl Syndrome, BBS1-related	1 in 41,000	< 1 in 1,000,000
Bardet-Biedl Syndrome, BBS10-related	< 1 in 50,000	< 1 in 1,000,000
ardet-Biedl Syndrome, BBS12-related	< 1 in 50,000	< 1 in 1,000,000
Bardet-Biedl Syndrome, BBS2-related	< 1 in 50,000	< 1 in 1,000,000
CS1L-related Disorders	< 1 in 50,000	< 1 in 1,000,000
Beta Globin-related Hemoglobinopathy (Including Beta Thalassemia and Sickl	e Cell	4 :- 04 000
Disease)	1 in 700	1 in 21,000
Beta-sarcoglycanopathy	1 in 39,000	< 1 in 1,000,000
Biotinidase Deficiency	1 in 38,000	< 1 in 1,000,000
lloom Syndrome	< 1 in 50,000	< 1 in 1,000,000
Calpainopathy	1 in 7,400	< 1 in 1,000,000
anavan Disease	1 in 1,400	1 in 900,000
arbamoylphosphate Synthetase I Deficiency	< 1 in 57,000	< 1 in 1,000,000
Carnitine Palmitoyltransferase IA Deficiency	< 1 in 50,000	< 1 in 1,000,000
Carnitine PalmitoyItransferase II Deficiency	1 in 18,000	< 1 in 1,000,000
Cartilage-hair Hypoplasia	< 1 in 50,000	< 1 in 1,000,000
Cerebrotendinous Xanthomatosis	1 in 11,000	< 1 in 1,000,000
itrullinemia Type 1	1 in 12,000	< 1 in 1,000,000
LN3-related Disorders	1 in 13,000	< 1 in 1,000,000
CLN5-related Neuronal Ceroid Lipofuscinosis	< 1 in 50,000	< 1 in 1,000,000
LN8-related Neuronal Ceroid Lipofuscinosis	< 1 in 50,000	< 1 in 1,000,000
Cohen Syndrome	< 1 in 15,000	< 1 in 1,000,000
Combined Pituitary Hormone Deficiency, PROP1-related	1 in 6,100	< 1 in 1,000,000
Congenital Adrenal Hyperplasia, CYP11B1-related	1 in 8,400	< 1 in 1,000,000

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MALE

DOB: Ethnicity: African or African American Barcode:

FEMALE N/A

Disease	Residual Risk	Reproductive Ris
Congenital Adrenal Hyperplasia, CYP21A2-related	1 in 1,700	1 in 930,000
Congenital Disorder of Glycosylation, ALG6-related	< 1 in 50,000	< 1 in 1,000,000
Congenital Disorder of Glycosylation, MPI-related	< 1 in 50,000	< 1 in 1,000,000
Congenital Disorder of Glycosylation, PMM2-related	1 in 14,000	< 1 in 1,000,000
Costeff Optic Atrophy Syndrome	< 1 in 50,000	< 1 in 1,000,000
Cystic Fibrosis	1 in 6,100	< 1 in 1,000,000
Cystinosis	1 in 22,000	< 1 in 1,000,000
Delta-sarcoglycanopathy	< 1 in 13,000	< 1 in 1,000,000
Dihydrolipoamide Dehydrogenase Deficiency	< 1 in 50,000	< 1 in 1,000,000
Dysferlinopathy	1 in 11,000	< 1 in 1,000,000
Dystrophinopathy (Including Duchenne/Becker Muscular Dystrophy)	Not calculated	Not calculated
ERCC6-related Disorders	1 in 8,400	< 1 in 1,000,000
ERCC8-related Disorders	1 in 12,000	< 1 in 1,000,000
EVC-related Bisolders EVC-related Ellis-van Creveld Syndrome	1 in 7,800	< 1 in 1,000,000
EVC2-related Ellis-van Creveld Syndrome	1 in 9,800	< 1 in 1,000,000
CONTROL OF COMMISSION OF THE PROPERTY COMMISSION		
Fabry Disease	< 1 in 1,000,000 < 1 in 50,000	1 in 80,000 < 1 in 1,000,000
Familial Dysautonomia	The state of the s	50 16 140000 10 16000 16000 160000 160000 160000
Familial Hyperinsulinism, ABCC8-related	1 in 17,000	< 1 in 1,000,000
Familial Hyperinsulinism, KCNJ11-related	< 1 in 50,000	< 1 in 1,000,000
Familial Mediterranean Fever	1 in 530	1 in 12,000
Fanconi Anemia Complementation Group A	1 in 3,100	< 1 in 1,000,000
Fanconi Anemia, FANCC-related	< 1 in 50,000	< 1 in 1,000,000
FKRP-related Disorders	1 in 42,000	< 1 in 1,000,000
FKTN-related Disorders	< 1 in 50,000	< 1 in 1,000,000
Free Sialic Acid Storage Disorders	< 1 in 30,000	< 1 in 1,000,000
Galactokinase Deficiency	1 in 44,000	< 1 in 1,000,000
Galactosemia	1 in 7,000	< 1 in 1,000,000
Gamma-sarcoglycanopathy	1 in 2,600	< 1 in 1,000,000
Gaucher Disease	1 in 310	1 in 150,000
GLB1-related Disorders	1 in 17,000	< 1 in 1,000,000
Glutaric Acidemia, GCDH-related	1 in 16,000	< 1 in 1,000,000
Glycine Encephalopathy, AMT-related	1 in 26,000	< 1 in 1,000,000
Glycine Encephalopathy, GLDC-related	1 in 2,500	< 1 in 1,000,000
Glycogen Storage Disease Type Ia	1 in 8,700	< 1 in 1,000,000
Glycogen Storage Disease Type Ib	1 in 35,000	< 1 in 1,000,000
Glycogen Storage Disease Type III	1 in 16,000	< 1 in 1,000,000
GNE Myopathy	< 1 in 50,000	< 1 in 1,000,000
GNPTAB-related Disorders	1 in 20,000	< 1 in 1,000,000
HADHA-related Disorders	1 in 25,000	< 1 in 1,000,000
Hereditary Fructose Intolerance	1 in 23,000	< 1 in 1,000,000
Hexosaminidase A Deficiency (Including Tay-Sachs Disease)	1 in 28,000	
		< 1 in 1,000,000
HMG-CoA Lyase Deficiency	< 1 in 50,000	< 1 in 1,000,000
Holocarboxylase Synthetase Deficiency	1 in 15,000	< 1 in 1,000,000
Homocystinuria, CBS-related	1 in 27,000	< 1 in 1,000,000
HSD17B4-related Disorders	1 in 9,000	< 1 in 1,000,000
Hydrolethalus Syndrome	< 1 in 50,000	< 1 in 1,000,000
Hypophosphatasia	1 in 23,000	< 1 in 1,000,000
Isovaleric Acidemia	1 in 26,000	< 1 in 1,000,000
Joubert Syndrome 2	< 1 in 50,000	< 1 in 1,000,000
Junctional Epidermolysis Bullosa, LAMA3-related	< 1 in 50,000	< 1 in 1,000,000
Junctional Epidermolysis Bullosa, LAMB3-related	1 in 31,000	< 1 in 1,000,000
Junctional Epidermolysis Bullosa, LAMC2-related	< 1 in 50,000	< 1 in 1,000,000
Krabbe Disease	1 in 17,000	< 1 in 1,000,000
Leigh Syndrome, French-Canadian Type	< 1 in 50,000	< 1 in 1,000,000
Lipoid Congenital Adrenal Hyperplasia	< 1 in 50,000	< 1 in 1,000,000
Lysosomal Acid Lipase Deficiency	1 in 17,000	< 1 in 1,000,000
Maple Syrup Urine Disease Type Ia	1 in 26,000	< 1 in 1,000,000
Maple Syrup Urine Disease Type Ib	1 in 36,000	< 1 in 1,000,000
Maple Syrup Urine Disease Type II	1 in 13,000	< 1 in 1,000,000
Medium-chain Acyl-CoA Dehydrogenase Deficiency	1 in 6,000	< 1 in 1,000,000
Megalencephalic Leukoencephalopathy with Subcortical Cysts	< 1 in 50,000	< 1 in 1,000,000
Metachromatic Leukodystrophy	1 in 16,000	< 1 in 1,000,000









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MALE

DOB:

Ethnicity: African or African
American
Barcode:

FEMALE N/A

Disease	Residual Risk	Reproductive Risk
Methylmalonic Acidemia, cbIA Type	< 1 in 50,000	< 1 in 1,000,000
Methylmalonic Acidemia, cblB Type	< 1 in 50,000	< 1 in 1,000,000
Methylmalonic Acidemia, MMUT-related	1 in 18,000	< 1 in 1,000,000
Methylmalonic Aciduria and Homocystinuria, cblC Type	1 in 16,000	< 1 in 1,000,000
MKS1-related Disorders	< 1 in 50,000	< 1 in 1,000,000
Mucolipidosis III Gamma	< 1 in 20,000	< 1 in 1,000,000
Mucolipidosis IV	< 1 in 50,000	< 1 in 1,000,000
Mucopolysaccharidosis Type I	1 in 5,600	< 1 in 1,000,000
Mucopolysaccharidosis Type II	< 1 in 1,000,000	1 in 300,000
Mucopolysaccharidosis Type IIIA	1 in 16,000	< 1 in 1,000,000
Mucopolysaccharidosis Type IIIB	1 in 26,000	< 1 in 1,000,000
Mucopolysaccharidosis Type IIIC	< 1 in 50,000	< 1 in 1,000,000
Muscular Dystrophy, LAMA2-related	1 in 5,700	< 1 in 1,000,000
MYO7A-related Disorders	1 in 15,000	< 1 in 1,000,000
NEB-related Nemaline Myopathy	1 in 1,200	1 in 400,000
Nephrotic Syndrome, NPHS1-related	< 1 in 50,000	< 1 in 1,000,000
Nephrotic Syndrome, NPHS2-related	1 in 35,000	< 1 in 1,000,000
Neuronal Ceroid Lipofuscinosis, CLN6-related	< 1 in 11,000	< 1 in 1,000,000
Neuronal Ceroid Lipofuscinosis, PPT1-related	1 in 7,700	< 1 in 1,000,000
Niemann-Pick Disease Type C1	1 in 17,000	< 1 in 1,000,000
Niemann-Pick Disease Type C2	< 1 in 50,000	< 1 in 1,000,000
Niemann-Pick Disease, SMPD1-related	1 in 25,000	< 1 in 1,000,000
Nijmegen Breakage Syndrome	< 1 in 50,000	< 1 in 1,000,000
Nonsyndromic Hearing Loss, GJB2-related	1 in 3,700	1 in 560,000
Ornithine Transcarbamylase Deficiency	< 1 in 1,000,000	1 in 63,000
PCCA-related Propionic Acidemia	1 in 4,200	< 1 in 1,000,000
PCCB-related Propionic Acidemia	1 in 22,000	< 1 in 1,000,000
PCDH15-related Disorders	1 in 3,300	< 1 in 1,000,000
Pendred Syndrome	1 in 6,400	< 1 in 1,000,000
Peroxisome Biogenesis Disorder Type 1	1 in 16,000	< 1 in 1,000,000
Peroxisome Biogenesis Disorder Type 3	1 in 44,000	< 1 in 1,000,000
Peroxisome Biogenesis Disorder Type 4	1 in 9,300	< 1 in 1,000,000
Peroxisome Biogenesis Disorder Type 5	< 1 in 71,000	< 1 in 1,000,000
Peroxisome Biogenesis Disorder Type 6	< 1 in 50,000	< 1 in 1,000,000
PEX7-related Disorders	1 in 16,000	< 1 in 1,000,000
Phenylalanine Hydroxylase Deficiency	1 in 11,000	< 1 in 1,000,000
POMGNT1-related Disorders	< 1 in 12,000	< 1 in 1,000,000
Pompe Disease	1 in 5,900	< 1 in 1,000,000
Primary Carnitine Deficiency	1 in 16,000	< 1 in 1,000,000
Primary Hyperoxaluria Type 1	1 in 20,000	< 1 in 1,000,000
Primary Hyperoxaluria Type 2	< 1 in 50,000	< 1 in 1,000,000
Primary Hyperoxaluria Type 3	< 1 in 50,000	< 1 in 1,000,000
Pycnodysostosis	1 in 43,000	< 1 in 1,000,000
Pyruvate Carboxylase Deficiency	1 in 25,000	< 1 in 1,000,000
RTEL1-related Disorders	< 1 in 37,000	< 1 in 1,000,000
Sandhoff Disease	1 in 18,000	< 1 in 1,000,000
Short-chain Acyl-CoA Dehydrogenase Deficiency	1 in 9,700	< 1 in 1,000,000
Sjogren-Larsson Syndrome	< 1 in 12,000	< 1 in 1,000,000
SLC26A2-related Disorders	1 in 16,000	< 1 in 1,000,000
Smith-Lemli-Opitz Syndrome	1 in 18,000	< 1 in 1,000,000
Spastic Paraplegia Type 15	< 1 in 50,000	< 1 in 1,000,000
	SMN1: 3+ copies	
Spinal Muscular Atrophy	1 in 4,300	< 1 in 1,000,000
Spondylothoracic Dysostosis	< 1 in 6,800	< 1 in 1,000,000
GM1-related Autosomal Recessive Congenital Ichthyosis	1 in 22,000	< 1 in 1,000,000
PP1-related Neuronal Ceroid Lipofuscinosis	1 in 30,000	< 1 in 1,000,000
Tyrosine Hydroxylase Deficiency	< 1 in 50,000	< 1 in 1,000,000
Tyrosinemia Type I	1 in 16,000	< 1 in 1,000,000
Tyrosinemia Type II	1 in 25,000	< 1 in 1,000,000
JSH1C-related Disorders	1 in 30,000	< 1 in 1,000,000
JSH2A-related Disorders	1 in 5,900	< 1 in 1,000,000

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Patient:

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MALE

DOB:
Ethnicity: African or African
American
Barcode:

FEMALE N/A

Disease	Residual Risk	Reproductive Risk
Very-long-chain Acyl-CoA Dehydrogenase Deficiency	1 in 14,000	< 1 in 1,000,000
Wilson Disease	1 in 9,000	< 1 in 1,000,000
X-linked Adrenal Hypoplasia Congenita	< 1 in 1,000,000	< 1 in 1,000,000
X-linked Adrenoleukodystrophy	1 in 72,000	1 in 34,000
X-linked Alport Syndrome	Not calculated	Not calculated
X-linked Juvenile Retinoschisis	< 1 in 1,000,000	1 in 50,000
X-linked Myotubular Myopathy	Not calculated	Not calculated
X-linked Severe Combined Immunodeficiency	< 1 in 1,000,000	1 in 200,000
Xeroderma Pigmentosum Group A	< 1 in 50,000	< 1 in 1,000,000
Xeroderma Pigmentosum Group C	1 in 7,300	< 1 in 1,000,000

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