CGT Carrier Genetic Test

Igenomix® PART OF VITROLIFE GROUP®

# OUR NEW UNIVERSAL APPROACH TO EXPANDED CARRIER SCREENING (CS) USING EXOME SEQUENCING

| | CGT Plus | CGT Mirror | CGT Sequential |
|---|---|---|---|
| | **Patient and partner using their own gametes, donors, or intended parents** completing carrier screening before donor selection | **Intended parents who have chosen a donor** and want to mirror the donor screen or when carrier screening panel of a bank is known | **Reproductive partners (including intended parents)** who wish to be tested only for the genes that the other partner is positive for |
| **Features** | Igenomix Expanded Panel including ACMG Tier 3 genes | Choose from a list of common gene panels | Use results of patient or donor carrier screening report to screen only for positive genes in the reproductive partner |
| **Genes** | Female:539; Male: 474 (includes 65 X-linked) | Varies | 1-10 single genes (+ 65 X-linked in females) |
| **Matching** | Included Automatic | Included Requested through portal | Included Requested through portal |
| **Upgrades** | Available through subsequent data analysis. No new sample required. Fees apply | Available through subsequent data analysis. No new sample required. Included within same test type. Fees apply if changing test type | Available through subsequent data analysis. No new sample required. Fees apply |
| **Genetic Counseling** | Access to live or recorded pre-test webinar<br>Included for at-risk match<br>Fee applies for low-risk match and/or individual carrier status review | | |
| **Support** | At-risk reproductive couples receive 15% off future PGT-M testing with Igenomix | | |
| **Sample** | Blood or saliva | | |
| **TAT** | 20 business days - 30 calendar days | | |

Covered by progyny

## Why choose our exome-based carrier screening?

### CLINICAL ADVANTAGE
- Allows for testing of **all known recessive conditions.**
- Increases the overall detection rate, minimizing the global residual risk.

### MATCHING
- Maximizes IVF applications, **matching possible with ALL genetic lab tests in the market.**
- **Simplifies** competitor CS panel mirroring as no resequencing is required to provide matching information.

### UPGRADES
- **Possibility to upgrade** to include additional genes at a later date.

### REANALYSIS
- **Exome sequencing offers added value for future analysis of a given patient.**
- Provides analytical possibilities in the adverse event of a newborn with a genetic condition.

**Available for domestic and international patients and donors.**

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## CGT is an advanced genetic test performed before pregnancy that determines the risk of having a child with a genetic condition.

**2-5%** of reproductive couples

**carry a variant in the same gene**

Ropers, 2012. Martin J et al. 2015
May vary among populations

**1,000** live births

**10** Affected — **Estimated global prevalence**

According to the World Health Organization (WHO)

**20%**

**infant mortality in developed countries**

Hoyert DL et al. 2000
Kingsmore S. 2012

**88%**

**of children born with a genetic disease have no family history of the condition.**

Archibald et al; 2018

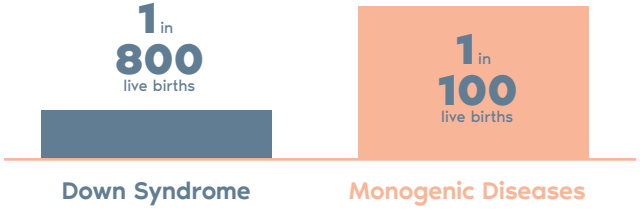
The American College of Obstetricians and Gynecologists (ACOG) makes the following recommendation:

ACOG
The American College of Obstetricians and Gynecologists

**Information about genetic carrier screening should be provided to every pregnant woman.**

| THE MOST COMMON MONOGENIC DISORDERS DETECTED WITH THE CGT TEST ARE: | PROPORTION OF CARRIERS |
|---|---|
| Cystic fibrosis | 1 in 25 |
| Spinal muscular atrophy | 1 in 50 |
| Autosomal recessive polycystic kidney disease | 1 in 70 |

**GLOBAL PREVALENCE IN LIVE BIRTHS OF DOWN SYNDROME VS MONOGENIC DISEASES**

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