



# evolve

LEADERS IN GENETIC FERTILITY SCREENING™



FOR MEN & WOMEN

## EVOLVE GENETIC FERTILITY SCREENS

The most advanced and comprehensive pre-IVF fertility screens on the market today.

SCREEN TODAY. PROTECT TOMORROW.



FOR MEN & WOMEN

# BRINGING A NEW PERSPECTIVE TO INFERTILITY CARE

Infertility is one of the most challenging issues a couple can experience in their reproductive lives. Infertility is also quite common with 1 in 6 couples being infertile. Genetic causes of male or female infertility constitute a significant risk factor for both males and females and substantially decreases a couple's chances of conception. Evolve Genetic Fertility Screening can increase in-vitro fertilization (IVF) success rates by identifying individuals who are at risk for IVF failures due to genetic defects.

## **Genetic Anomalies are a major contributor to Male and Female Infertility**

**An estimated 50% of infertility cases are due to genetic defects.**

**As many as 1 in 5 men with infertility will have a genetic defect.**

**As many as 1 in 7 women with infertility will have a genetic defect.**

## **It's important to get tested**

Genetic fertility screening for both men and women allows a person to assess their personal genetic risk for infertility and provides more options for couples in managing their infertility. The genetic causes of infertility for men and women are complex but knowing your own genetics is the first step!

## **Evolve Pre-IVF & Preconception Genetic Screens are developed by leading experts**

Evolve Fertility Screens have been designed and developed by leading scientists in fertility and genetics. Detecting genetic defects that affect reproductive development. For example, mutations in the CFTR gene, responsible for Cystic fibrosis, can cause an infertile condition in men known as Congenital bilateral absence of the vas deferens. While mutations in the FMR1 gene, responsible for Fragile X syndrome, can lead to decreased fertility in women and is the #1 cause of inherited intellectual disabilities.

# HOW IT WORKS

**Both male and female fertility screens are performed on a sample of your blood.**



## **Accurate Chromosomal and Mutation Analysis**

To provide the most in-depth and advanced look at the possible genetic causes of your infertility.

Evolve Fertility Genetic Screens are performed by leading certified CLIA laboratories in the USA.

## **Society Guidelines and Recommendations**

Many professional medical societies including the American Society for Reproductive Medicine (**ASRM**), American Congress of Obstetricians and Gynecologists (**ACOG**) and the American Urological Association (**AUA**) have all recommended males and females with infertility have genetic screening.



# MALE FERTILITY SCREEN

**Male infertility contributes to a significant amount of infertility cases. Known genetic factors are responsible for 15-30% of male infertility.**

Evolve Male Fertility Screen is the most in-depth genetic test for male infertility available. The screen detects genetic causes of sperm abnormalities and dysfunctional sexual development through mosaic chromosomal analysis, Y-chromosome deletions detection, and accurate mutation analysis of 5 genes known to be associated with male infertility.

## What's included on the Male Fertility Screen?

### **AR, CATSPER1, FSHR, LHCGR + CFTR**

Targeted Screening for the 39 most common pan-ethnic CFTR mutations.

#### **CHROMOSOME ANALYSIS**

Sex Chromosome Disorders  
(e.g. Klinefelter Syndrome)

Mosaicism

Y Microdeletions

#### **The most advanced and accurate male fertility screen**

NGS sensitivity analysis at 99%  
Y microdeletion sensitivity >99%



# FEMALE FERTILITY SCREEN

**Female infertility contributes to a significant amount of infertility cases. Approximately 10% of female infertility has a genetic factor.**

Evolve Female Fertility Screen detects the most common genetic causes of female infertility. The screen provides mosaic chromosomal analysis as well as analysis of 6 genes associated with major female infertility issues including dysfunctional sexual development which impacts reproductive function and health.

## What's included on the Female Fertility Screen?

**FSHR, LHCGR, BMP15, LHB, ZP1 + FMR1**

Repeat length analysis to detect for FMR1 premutation – the most common genetic cause of premature ovarian failure.

### CHROMOSOME ANALYSIS

Sex Chromosome Disorders  
(e.g. Turner syndrome)

Mosaicism

Chromosome Rearrangements

**The most advanced and accurate female fertility screen**

NGS sensitivity analysis at 99%  
FMR1 repeat expansion sensitivity at 100%

# PREMATURE OVARIAN FAILURE SCREEN

Premature ovarian failure (POF) is a condition of diminished fertility in women. POF is associated with low or poor reserve of eggs relative to what is expected at any given age.

Evolve Premature Ovarian Failure Screen reveals if a female has diminished ovarian reserves due to genetic contributions that lead to premature ovarian failure (POF).

## **What's included on Premature Ovarian Failure Screen?**

**Mutation analysis of 21 genes strongly associated with POF.**

**Accurate Fragile X FMR1 CGG Repeat Analysis.**

## **Why is knowing if you are a Fragile X FMR1 premutation carrier important?**

The Fragile X FMR1 premutation is found in approximately 1 in 150 women, putting millions of women at risk for infertility. It is one of greatest genetic risk factors for premature ovarian failure and female infertility.

Women with Fragile X FMR1 premutations not only have a high risk of developing POF but they also have an increased risk of having a child with Fragile X syndrome. Fragile X syndrome is the most common inherited genetic cause of autism and intellectual disabilities.

**Any female experiencing infertility issues, especially with a personal or family history of ovarian insufficiency, benefits from this screening.**



## Who should consider Evolve Genetic Fertility Screens?

Any Male or Female that wants to know of potential genetic risks of infertility prior to IVF or conceiving should consider genetic fertility screening. Early knowledge and awareness will reduce later costs, save time and stress while giving you and your healthcare team greater preparation and options to help achieve a healthy pregnancy.

**Please consult with your doctor on the benefits of Evolve Genetic Fertility Screens if you or your partner have experienced any of the following:**

- **Known family history of fertility problems.**
- **Failure to get pregnant after trying to conceive for six months or longer.**
- **Low sperm count or abnormal sperm.**
- **History of more than one miscarriage.**

## Complimentary Genetic Counseling

A complimentary and compassionate genetic consultation service is available at no additional cost for both physicians and patients for each Evolve Genetic Fertility Screen.

Our team of Board-Certified Genetic Counselors are ready to answer your questions to ensure genetic screening is as easy to follow as possible.

Genetic counseling services with EvolveGene® includes pre-test consultations and post-test counseling support for access to expert care throughout the genetic screening process.

Our specialists are here for you. If you have any questions please email: [support@EvolveGene.com](mailto:support@EvolveGene.com)



# THE LEADER IN FERTILITY & REPRODUCTIVE GENETIC SCREENING

EvolveGene® was founded by world leaders in genetics and fertility discovery, with over 25 years of experience in human reproduction, genetic screening and ART research.

Our research team has published over 250 clinical papers in fertility and genetic research, with over 8,000 related citations, along with over 20 worldwide patents in reproductive technology.

Our goal is to provide our valued customers with the most comprehensive Pre-In Vitro Fertilization (IVF) Genetic Fertility Screening with viable healthcare solutions for your family and for future generations.

**To Learn More Visit:** [www.EvolveGene.com](http://www.EvolveGene.com)

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### Questions?

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## #1 in Genetic Fertility Screening