FOR MEN & WOMEN

EVOLVE FERTILITY GENETIC SCREENS

The most advanced and comprehensive fertility genetic screens on the market today.

SCREEN TODAY. PROTECT TOMORROW.
Infertility is one of the most challenging issues a couple can experience in their reproductive lives. Infertility is also quite common with 1 in 10 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.

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

- **40%** of all infertility cases are due Male infertility. As many as 1 in 2 men with infertility will have a genetic anomaly.

- **50%** of all infertility is due to Female infertility. As many as 1 in 10 women with infertility will have a genetic anomaly.

**It's important to get tested**

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 Screens are developed by leading experts**

Evolve Fertility Screens have been designed and developed by leading scientists in fertility and genetics. Detecting genetic anomalies 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.
Both male and female fertility screens are performed on a sample of your blood.

Accurate Chromosomal and Targeted Mutation Analysis

To provide the most in-depth and advanced look at the possible genetic causes if 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 approximately 40% of all infertility cases. Genetic causes of infertility can be found in nearly half (50%) of these males.

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, including Y-chromosome deletions, 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.

<table>
<thead>
<tr>
<th>CHROMOSOME ANALYSIS</th>
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<tbody>
<tr>
<td>Sex Chromosome Aneuploidies (i.e. Klinefelter Syndrome)</td>
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<tr>
<td>Mosaicism (accounts for 5-10% of all male infertility)</td>
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<tr>
<td>Y Microdeletions (accounts for 15% of all male infertility)</td>
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The most advanced and accurate male fertility screen
- NGS sensitivity analysis at 99%
- Y microdeletion sensitivity >99%
FEMALE FERTILITY SCREEN

Female infertility contributes to approximately 50% of all infertility cases. Genetic causes of infertility can found in 1/10 (10%) of these females.

Evolve Female Fertility Screen detects the most common genetic causes of female infertility. The screen provides mosaic chromosomal analysis as well as analysis of six 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, LHCG, BMP15, LHB, ZP1 + FMR1

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

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<th>CHROMOSOME ANALYSIS</th>
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<tr>
<td>Sex Chromosome Disorders (i.e. Turner syndrome)</td>
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<tr>
<td>Mosaicism (through examination of 50 live cells)</td>
</tr>
<tr>
<td>Chromosome Rearrangements (i.e. that can lead to complete androgen insensitivity)</td>
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The most advanced and accurate female fertility screen
NGS sensitivity analysis at 99%
FMR1 repeat expansion sensitivity at 100%
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?

Targeted 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 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 Fertility Genetic Screens?
Any Male or Female that wants to know any potential genetic risks of infertility in advance should consider fertility genetic 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 Fertility Genetic 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 Fertility Genetic Screen.

Our team of board-certified genetic counselors are ready to answer your questions to ensure the screening process is as easy to follow as possible.

Our specialists are here for you. If you have any questions please email: support@EvolveGene.com
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 fertility genetic screening, and to offer them viable healthcare solutions for future generations.

To Learn More Visit: www.EvolveGene.com

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#1 in Genetic Fertility Screening