



# evolve®

LEADERS IN GENETIC FERTILITY SCREENING™



FOR MEN & WOMEN

# EVOLVE FERTILITYREADY™ SCREENS

Assess genetic factors that cause infertility and know more about your reproductive health.

Be Proactive.

SCREEN TODAY. PROTECT TOMORROW.

#1 in Genetic Fertility Screening

# BRINGING A NEW PERSPECTIVE TO INFERTILITY CARE

Infertility is one of the most challenging struggles a couple can experience in their reproductive lives. FertilityReady™ Screens provide comprehensive insight into the genetic makeup of a person and allow for a more personalized and refined diagnosis and the opportunity for tailored fertility treatments.

## **Genetic Factors are a major contributor to Infertility**

**Infertility is common**

**Impacting 1 in 6 couples worldwide**



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

Pre-IVF or pre-conception genetic screening provides the most options to consider for managing your reproductive health. Knowing your own genetics is the first step to uncover causes of infertility and the future risk of inherited disorders in your children.

# HOW IT WORKS

Screening requires either a sample of your blood  
OR your saliva.



**Pre-IVF Genetic Screening: A Testing Package Only Available with Evolve**

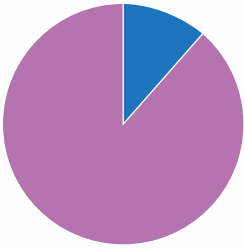
**FertilityReady™ Screen + FamilyReady™ Carrier Screen**

**Male and Female Evolve FertilityReady™ Screens: MolecularKaryotype™ + Testing of Genes Associated with Fertility**

**Evolve FamilyReady™ Carrier Screen: An advanced expanded panel screening thousands of variants in >200 genes associated with genetic disorders relevant for all ethnicities**

To provide the most complete look at your reproductive health at the genetic level.

## FEMALE FERTILITYREADY™ SCREEN



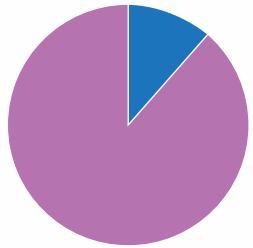
**10%**

**Approximate number of female infertility cases with a genetic factor.**

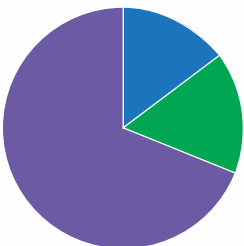
## POF FERTILITYREADY™ SCREEN

**Estimated account of ovulatory sterility due to Premature Ovarian Failure (POF).**

**10%**



## MALE FERTILITYREADY™ SCREEN



**15%-30%**

**Known genetic causes responsible for male infertility.**

EvolveGene® Screens are performed in a CLIA Certified, CAP Accredited, & Florida State Licensed Laboratory in St. Petersburg, Florida.

# WHAT'S INCLUDED ON FERTILITYREADY™ SCREENS?

Superior genetic screening using the latest Next Generation Sequencing (NGS) technologies

	FEMALE	POF	MALE
Gene Sequencing	●	●	●
Deletion/duplication analysis	●	●	●
MolecularKaryotype™	●		●

## Male FertilityReady™ Screen

**Gene panel:** AR, AURKC, BLM, CATSPER1, CFTR, FSHB, FSHR, LHB, LMNA, NR5A1, SRY, USP9Y

**Disorders:** Bloom Syndrome, CATSPER-Related Male Infertility, Cystic Fibrosis, Hypogonadotropic Hypogonadism 23 with or without Anosmia, Spermatogenic Failure 7, Spermatogenic Failure 8, Y Chromosome Infertility

## Female FertilityReady™ Screen

**Gene panel:** BLM, BMP15, ESR1, FMR1, FSHB, FSHR, LHB, LHCGR, NR5A1, ZP1

**Disorders:** FMR1-Related Primary Ovarian Insufficiency, Hypogonadotropic Hypogonadism 23 with or without Anosmia, Leydig Cell Hypoplasia/Agensis, Premature Ovarian Failure 7, Oocyte Maturation Defect, Ovarian Dysgenesis 2

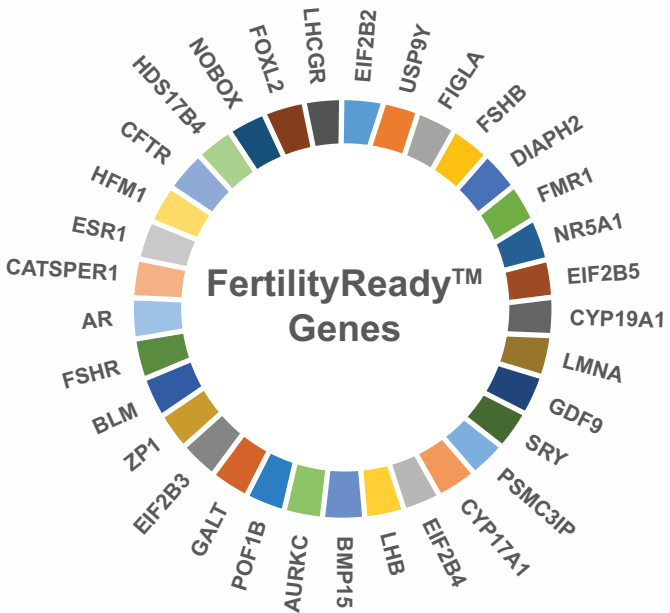
## POF FertilityReady™ Screen

**Gene panel:** BMP15, CYP17A1, CYP19A1, DIAPH2, EIF2B2, EIF2B3, EIF2B4, EIF2B5, FIGLA, FMR1, FOXL2, FSHR, GALT, GDF9, HFM1, HDS17B4, LHCGR, LMNA, NOBOX, NR5A1, POF1B, PSMC3IP

**Disorders:** FMR1-Related Primary Ovarian Insufficiency, Ovarian Dysgenesis 1, Ovarian Dysgenesis 2, Ovarian Dysgenesis 3, Premature Ovarian Failure 2A, Premature Ovarian Failure 3, Premature Ovarian Failure 5, Premature Ovarian Failure 6, Premature Ovarian Failure 7, Premature Ovarian Failure 9

# EVOLVE ADVANTAGES: FERTILITYREADY™ SCREENS

- Validated & Supported by clinical research with extensive literature review of >4,000 publications
- May help reduce repeated IVF failures
- Rapid turn-around times & reliable results
- High accuracy & Detection Rates >99% for most genes screened



## Genetic Screens developed by leading experts

Our distinguished scientific team designed each screen to be specialized for reproductive medicine and include the most relevant genes (e.g. CFTR, FMR1). Mutations in the CFTR gene, responsible for Cystic fibrosis, can cause a condition in men known as Congenital bilateral absence of the vas deferens which can often be treated with Assisted Reproductive Technology (ART) in order to achieve biological children. While mutations in the FMR1 gene, responsible for Fragile X syndrome, can lead to decreased fertility in women, possibly refined ART treatments, and can also put children at risk for inherited intellectual disabilities.



# THE MISSING PIECE OF THE INFERTILITY PUZZLE

## Who should have a FertilityReady™ Screen?

### Testing Indications Include:

- Men or women planning to have children
- Couples having trouble conceiving
- Known family history of infertility
- Undiagnosed or suspected infertility
- Recurrent implantation failures (RIF) with IVF
- Recurrent pregnancy loss (RPL) when attempting to conceive naturally or when undergoing ART
- Women planning on storage or freezing of their eggs
- Women with known or features of PCOS
- Women with diminished or decreased ovarian reserves or signs of early menopause
- Men with low sperm counts or abnormal sperm
- Plans to pursue ART either now or past age 35

**Please consult with your healthcare provider or a genetics professional on the benefits & limitations of screening.**

### Complimentary Genetic Counseling

Compassionate genetic consultations are available at no additional cost.

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 and post-test counseling support with access to expert care throughout the genetic screening process.

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

# THE LEADER IN FERTILITY & REPRODUCTIVE GENETIC SCREENING

EvolveGene® was founded by world leaders in preventive and personalized health care, 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 Genetic Screening with viable healthcare solutions for your family and for future generations.

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



## **Questions?**

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