



# evolve<sup>®</sup>

LEADERS IN GENETIC FERTILITY SCREENING™



# EVOLVE CARRIER GENETIC SCREENS

Better health for generations to come!

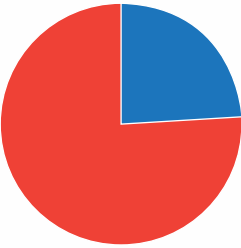
Be Proactive.

SCREEN TODAY. PROTECT TOMORROW.

# PROTECT THE HEALTH OF YOUR FUTURE CHILDREN BY KNOWING YOUR GENETIC RISKS, TODAY!

Carrier Screening is a type of genetic testing that can determine carriers of genetic mutations that can lead to serious inherited genetic disorders in children.

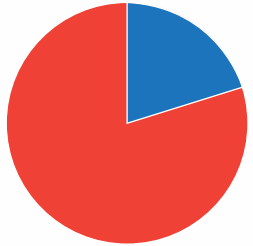
**Anyone can be a carrier of a genetic disorder.**



**24% of the general population are carriers of a genetic disorder, although utilizing expanded carrier screening (ECS), this number is likely a substantial underestimate.**

**Having no family history of a genetic disorder does not eliminate your risk.**


**80% of children born with a genetic recessive disorder were born to parents who had no family history.**



## HOW IT WORKS

### **Rapid, Reliable, and Straightforward Genetic Screening**

Evolve Carrier Genetic Screens are performed through either a simple saliva or blood sample. We look for changes, or mutations, in specific genes in DNA so we can inform you if your future children may be at risk of inheriting a particular genetic disorder.



# EVOLVE FAMILYREADY™ CARRIER SCREEN IS THE RIGHT CHOICE!

Accurate & Comprehensive carrier screen for the most relevant disorders for all ethnicities. It's a simple checkup at the genetic level that every couple should consider.

Using the latest cutting edge technologies for the most in-depth screening.

- **Expanded gene panel analysis with Next Generation Sequencing (NGS)**
  - **Screening thousands of variants in >200 genes associated with genetic disorders relevant for all ETHNICITIES**
- **Gene Panel with Sequencing + Deletion/Duplication Analysis**
- **Spinal Muscular Atrophy (SMA) Analysis**
  - **SMN1 copy number detection**
- **The most complete Fragile X Screen**
  - **Traditional CGG expansion analysis plus optional AGG reflex interruption analysis, if indicated**

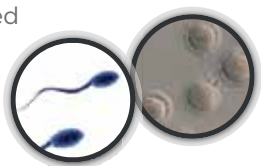
Detection rates of **>99%**  
of novel & known mutations for  
most genes screened!

# EVOLVE j-FAMILYREADY™ CARRIER SCREEN

Specialized carrier screen specifically for genetic disorders found in those of Jewish descent including those from Ashkenazi and Sephardic populations. Individuals of Jewish descent are at increased risk to be carriers for conditions such as Fanconi Anemia, Bloom Syndrome, and Nonsyndromic hearing loss.

# EVOLVE DONORREADY™ CARRIER SCREEN

Advanced carrier screen developed for sperm and egg donors with optional MolecularKaryotype™.



Donors who are carriers need not be excluded if the reproductive partner has had appropriate carrier screening.



**Testing options are available to order as a single specialty test.**



Fragile X Syndrome



Cystic Fibrosis



Spinal Muscular Atrophy

# SOCIETY GUIDELINES AND RECOMMENDATIONS

Both the *American College of Obstetricians and Gynecologists (ACOG)* and the *American College of Medical Genetics (ACMG)* recommend some form of genetic screening if individuals are of reproductive age or considering using donors in ART.

ACOG recently released two updated Committee Opinions on carrier screening.

Carrier Screening in the Age of Genomic Medicine (#690) stated ethnic-specific, panethnic, and **expanded carrier screening are acceptable strategies for pre-pregnancy and prenatal carrier screening.**

Carrier Screening for Genetic Conditions (#691) states **information about genetic carrier screening should be provided to every pregnant woman.**

Research has shown that individuals, especially those undergoing fertility care, have used information from carrier screening to make a clinical decision regarding their reproductive health.





## Genes have no borders, genetic mutations have no boundaries

Our ethnicities can influence the risk to be a carrier since some genetic disorders are more common in certain populations. As the chart below demonstrates, your ethnicity alone can put you at an increased risk of being a carrier of a severe genetic disorder.

POPULATION	GENETIC DISORDER	CARRIER FREQUENCY
African American	Beta-Thalassemia Cystic Fibrosis Sickle Cell Disease	1 in 75 1 in 61 1 in 10
Ashkenazi Jewish	Cystic Fibrosis Gaucher Disease Tay-Sachs Disease	1 in 24 1 in 15 1 in 25
Asian	Alpha-Thalassemia Beta-Thalassemia Cystic Fibrosis	1 in 20 1 in 50 1 in 94
European	Cystic Fibrosis	1 in 25
French Canadian	Tay-Sachs Disease	1 in 30
Hispanic/Latino	Beta-Thalassemia Cystic Fibrosis	1 in 40 1 in 58
Mediterranean	Beta-Thalassemia Cystic Fibrosis	1 in 25 1 in 29

## Reliable and Actionable Results: Giving You Options to Plan For Your Future

Evolve Carrier Genetic Screens provide information to help you plan and make informed decisions for the healthiest family possible.

# 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)

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Evolve Carrier Genetic Screens ...Just Makes Sense!

Offering the most superior screening technology with industry leading sequencing + deletion/duplication analysis.

One Simple test can help piece together the puzzle of your evolving family.



# 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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## **#1 in Genetic Fertility Screening**