

# Reproductive Genetics Market 2025-2029: Unveiling Growth Developments with the Latest Updates

*The Business Research Company's Reproductive Genetics Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- What Is The Expected Cagr For The [Reproductive Genetics Market](#) Through 2025?

The for [reproductive genetics market size](#) has seen a swift surge in the recent past. It is projected to escalate from \$6.83 billion in 2024 to \$7.91 billion in 2025, demonstrating a compound annual growth rate (CAGR) of 15.8%. This expansion during the historical period is largely ascribed to the



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growing demand for procedures like in vitro fertilization (IVF), increasing occurrence of genetic disorders, a rise in the age of motherhood, broadening understanding of prenatal screening, and an upturn in government efforts towards genetic research.

The reproductive genetics market is projected to experience significant expansion in the coming years, expecting to rise to a worth of \$14.07 billion by 2029, with a compound annual growth rate of 15.5%. Factors contributing to the expected growth during the forecast

period include the increasing implementation of assisted reproductive technologies (ART), a growing emphasis on personalized medicine, rising utilization of non-invasive prenatal testing (NIPT), a expanding market for fertility tourism, and an increase in investment towards genetic counseling services. Key trends for the forecast period encompass advancements in genomic sequencing technologies, breakthroughs in embryo screening methods, progress in the use of artificial intelligence (AI) in reproductive genetics, ongoing research and developments in gene editing, and the incorporation of technology in fertility clinics.

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### What Are The Driving Factors Impacting The Reproductive Genetics Market?

Advancements in the reproductive genetics market are anticipated to surge due to the growing prevalence of genetic disorders. These disorders, which are caused by anomalies in a person's DNA, can vary from single gene mutation to defects in chromosomes. The escalating number of these genetic disorders is attributable to the rise in reproductive genetic testing as families are eager to gain early knowledge, which reduces uncertainty, aids in well-informed reproductive decisions, and assists in preventing the inheritance of these conditions. Reproductive genetics is crucial in identifying and managing these genetic disorders, enabling families to make educated decisions and reducing the likelihood of transferring conditions to future generations. For example, Cystic Fibrosis Australia, a national consumer organization in Australia, reported in July 2024 that Cystic Fibrosis (CF) cases registered with the Australian Cystic Fibrosis Data Registry (ACFDR) experienced a 1.6% increase, swelling from 3,738 in 2022 to 3,798 in 2023. Thus, the ever-increasing instance of genetic disorders is expected to drive the reproductive genetics market prominently.

### Which Players Dominate The Reproductive Genetics Industry Landscape?

Major players in the Reproductive Genetics Global Market Report 2025 include:

- F. Hoffmann-La Roche Ltd.
- Thermo Fisher Scientific Inc.
- Quest Diagnostics Incorporated
- Agilent Technologies Inc.
- Illumina Inc.
- Revvity Inc.
- Medcover AB
- OPKO Health Inc.
- Natera Inc.
- Myriad Genetics Inc.

### What Are The Top Trends In The Reproductive Genetics Industry?

Leading businesses in the reproductive genetics industry are concentrating on creating novel techniques, like extensive multi-trait embryo comparison, to provide potential parents with improved tools that allow for more accurate and individualized embryo selection. Extensive multi-trait embryo comparison is the capacity to assess and rank numerous embryos concurrently based on a vast assortment of inherited diseases and complex features. This aids in making better informed, personalized decisions during in vitro fertilization. For instance, Nucleus Genomics Inc., an American biotech firm, introduced Nucleus Embryo in June 2025. It is an advanced reproductive genetics platform which allows IVF patients to investigate and contrast up to 20 embryos on more than 900 inherited conditions in addition to complex characteristics like appearance, mental health, and cognitive capability via polygenic scoring. This introduction symbolizes an enormous advancement beyond traditional genetic screening as it provides

parents an unparalleled influence over embryo selection, while also sparking a moral discussion about the consequences of genetic enhancement and trait choice.

## Global Reproductive Genetics Market Segmentation By Type, Application, And Region

The reproductive genetics market covered in this report is segmented as

- 1) By Product Type: Kits, Laboratory Developed Tests (LDT), Reagents And Consumables
- 2) By Technology: Polymerase Chain Reaction (PCR), Next-Generation Sequencing (NGS), In-Situ Hybridization (ISH), Microarray Analysis
- 3) By Application: Aneuploidy, Single Gene Disorder, Structural Chromosomal Abnormality, Other Applications
- 4) By End User: Hospitals, Diagnostic Laboratories, Fertility Clinics, Research Institutions

### Subsegments:

- 1) By Kits: Sample Collection Kits, Extraction Kits, Amplification Kits, Sequencing Kits, Hybridization Kits
- 2) By Laboratory Developed Tests: Carrier Screening Tests, Preimplantation Genetic Tests, Prenatal Diagnostic Tests, Aneuploidy Detection Tests, Single Gene Disorder Tests
- 3) By Reagents And Consumables: Enzymes, Buffers, Probes, Fluorescent Labels, Laboratory Plasticware

View the full reproductive genetics market report:

<https://www.thebusinessresearchcompany.com/report/reproductive-genetics-global-market-report>

## Which Region Holds The Largest Market Share In The Reproductive Genetics Market?

In the 2025 Reproductive Genetics Global Market Report, North America dominates as the largest region, while Asia-Pacific is projected to indicate the most rapid growth. The report closely reviews regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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