

# **Preimplantation Genetic Testing Market Size, Trends, Analysis, and Outlook By Procedure (Preimplantation Genetic Screening, Preimplantation Genetic Diagnosis), By Technology (Next-Generation Sequencing, Polymerase Chain Reaction, Fluorescence In Situ Hybridization, Comparative Genomic Hybridization, Single-Nucleotide Polymorphism), By Product (Reagents and Consumables, Instruments, Software and Services), By Application (Aneuploidy, Structural Chromosomal Abnormalities, Single Gene Disorders, X-Linked Disorders, HLA Typing, Gender Identification), By Cycle (Fresh non-Donor, Frozen non-Donor, Fresh Donor, Frozen Donor), By End-User (Fertility Clinics, Hospitals, Diagnostic Laboratories, Others), by Country, Segment, and Companies, 2024-2032**

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## **Abstracts**

The global Preimplantation Genetic Testing market size is poised to register 8.8% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Preimplantation Genetic Testing market across By Procedure (Preimplantation Genetic Screening, Preimplantation Genetic Diagnosis), By Technology (Next-Generation Sequencing,

Polymerase Chain Reaction, Fluorescence In Situ Hybridization, Comparative Genomic Hybridization, Single-Nucleotide Polymorphism), By Product (Reagents and Consumables, Instruments, Software and Services), By Application (Aneuploidy, Structural Chromosomal Abnormalities, Single Gene Disorders, X-Linked Disorders, HLA Typing, Gender Identification), By Cycle (Fresh non-Donor, Frozen non-Donor, Fresh Donor, Frozen Donor), By End-User (Fertility Clinics, Hospitals, Diagnostic Laboratories, Others)

The future of the preimplantation genetic testing (PGT) market is influenced by advancements in reproductive genetics, increasing adoption of in vitro fertilization (IVF) techniques, and growing demand for genetic screening and embryo selection in assisted reproductive technology (ART) procedures. Preimplantation genetic testing encompasses a set of genetic screening techniques used by fertility specialists and embryologists to analyze embryos created through IVF for genetic abnormalities, chromosomal aneuploidies, and inherited genetic disorders before embryo transfer into the uterus to improve the success rate of IVF treatments and reduce the risk of miscarriage or genetic diseases in offspring. With the rise of delayed childbearing, infertility rates, and genetic testing options, there is a growing need for preimplantation genetic testing solutions that offer high accuracy, sensitivity, and reliability for comprehensive genetic analysis and embryo selection to help couples achieve successful pregnancies and healthy babies through IVF. Further, technological innovations such as next-generation sequencing (NGS), array comparative genomic hybridization (aCGH), and single-nucleotide polymorphism (SNP) microarray are driving the development of next-generation preimplantation genetic testing platforms with improved resolution, throughput, and cost-effectiveness for genetic diagnosis and counseling in ART clinics and fertility centers. Over the forecast period to 2030, expanding applications in infertility treatment, reproductive genetics, and prenatal screening, coupled with increasing demand for personalized fertility care and expanded genetic testing panels, are expected to drive market growth and innovation, enabling IVF clinics and fertility laboratories to offer advanced genetic screening services and improve reproductive outcomes for individuals and couples undergoing fertility treatment.

## Preimplantation Genetic Testing Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Preimplantation Genetic Testing market research analyses the global market trends, key drivers, challenges, and opportunities in the

industry. In addition, the latest Future of Preimplantation Genetic Testing survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Preimplantation Genetic Testing industry.

Key market trends defining the global Preimplantation Genetic Testing demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Preimplantation Genetic Testing Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The Preimplantation Genetic Testing industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Preimplantation Genetic Testing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Preimplantation Genetic Testing industry

Leading Preimplantation Genetic Testing companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Preimplantation Genetic Testing companies.

Preimplantation Genetic Testing Market Study- Strategic Analysis Review

The Preimplantation Genetic Testing market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

## Preimplantation Genetic Testing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Preimplantation Genetic Testing industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios- low case, reference case, and high case scenarios.

## Preimplantation Genetic Testing Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

## North America Preimplantation Genetic Testing Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various Preimplantation Genetic Testing market segments. Similarly, Strong market demand is encouraging

Canadian Preimplantation Genetic Testing companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico Preimplantation Genetic Testing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Preimplantation Genetic Testing Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Preimplantation Genetic Testing industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European Preimplantation Genetic Testing market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Preimplantation Genetic Testing Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Preimplantation Genetic Testing in Asia Pacific. In particular, China, India, and South East Asian Preimplantation Genetic Testing markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

Latin America Preimplantation Genetic Testing Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption

growth in the medium to long term.

Middle East and Africa Preimplantation Genetic Testing Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Preimplantation Genetic Testing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Preimplantation Genetic Testing.

### Preimplantation Genetic Testing Market Company Profiles

The global Preimplantation Genetic Testing market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abbott Laboratories, Agilent Technologies Inc, Illumina Inc, Oxford Nanopore Technologies Ltd, QIAGEN N.V., Revvity Health Inc, Takara Bio Inc, The Cooper Companies Inc, Thermo Fisher Scientific Inc, Vitrolife AB.

### Recent Preimplantation Genetic Testing Market Developments

The global Preimplantation Genetic Testing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

### Preimplantation Genetic Testing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Procedure

Preimplantation Genetic Screening

Preimplantation Genetic Diagnosis

By Technology

Next-Generation Sequencing

Polymerase Chain Reaction

Fluorescence In Situ Hybridization

Comparative Genomic Hybridization

Single-Nucleotide Polymorphism

By Product

Reagents and Consumables

Instruments

Software and Services

By Application

Aneuploidy

Structural Chromosomal Abnormalities

Single Gene Disorders

X-Linked Disorders

HLA Typing

Gender Identification

By Cycle

Fresh non-Donor

Frozen non-Donor

Fresh Donor

Frozen Donor

By End-User

Fertility Clinics

Hospitals

Diagnostic Laboratories

Others

Geographical Segmentation:



North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Abbott Laboratories

Agilent Technologies Inc

Illumina Inc

Oxford Nanopore Technologies Ltd

QIAGEN N.V.

Revvity Health Inc

Takara Bio Inc

The Cooper Companies Inc

Thermo Fisher Scientific Inc

Vitrolife AB

Formats Available: Excel, PDF, and PPT

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Single-Nucleotide Polymorphism  
By Product  
Reagents and Consumables  
Instruments  
Software and Services  
By Application  
Aneuploidy  
Structural Chromosomal Abnormalities  
Single Gene Disorders  
X-Linked Disorders  
HLA Typing  
Gender Identification  
By Cycle  
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Illumina Inc

Oxford Nanopore Technologies Ltd

QIAGEN N.V.

Revvity Health Inc

Takara Bio Inc

The Cooper Companies Inc

Thermo Fisher Scientific Inc

Vitrolife AB.

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