

# **Preimplantation Genetic Testing Market - A Global and Regional Analysis: Focus on Product, Application, Technology, End User, Country Data (15 Countries) - Analysis and Forecast, 2021-2031**

<https://marketpublishers.com/r/PB1FC9E0575FEN.html>

Date: November 2021

Pages: 138

Price: US\$ 5,250.00 (Single User License)

ID: PB1FC9E0575FEN

## **Abstracts**

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at [order@marketpublishers.com](mailto:order@marketpublishers.com) with your request.

Market Report Coverage - Preimplantation Genetic Testing

Market Segmentation

Product Type – Reagents and Consumables, Kits and Services

Application – Structural Chromosomal Abnormalities, Single Gene Disorder and Others

Technology - Polymerase Chain Reaction (PCR), Next-Generation Sequencing (NGS), In Situ Hybridization (ISH/FISH), Microarray

End User – Diagnostic Center, Research Center, and Others

Regional Segmentation

North America – U.S., Canada

Europe – France, Italy, U.K., Spain, Netherlands, Russia, and Rest-of-Europe

Asia-Pacific – China, Japan, India, South Korea, Australia, and Rest-of-Asia-Pacific (RoAPAC)

Rest-of-the-World

### Market Growth Drivers

Advancing Maternal Age Globally

A Rise in Adoption of In-Vitro Fertilization

Increasing Awareness for Genetic Testing

Rising Emphasis on Predictive Genetic Testing for Early Detection

### Market Challenges

Ethical Issues Pertaining to the Preimplantation Genetic Testing

High Procedural Cost Associated with Preimplantation Genetic Testing

### Market Opportunities

Decreasing Cost of Genomic Sequencing

The Emergence of Reproductive Tourism

### Key Companies Profiled

Abbott Laboratories, Agilent Technologies, Inc., BGI, Fulgent Genetics, Inc., Igenomix, Illumina, Inc., Invitae Corporation, Myriad Genetics, Inc., MedGenome Labs Ltd., Natera, Inc., PerkinElmer, Inc., Pac Genomics, Thermo Fisher Scientific Inc.

### Key Questions Answered in this Report:

What are the factors necessitating the requirement of global preimplantation genetic testing globally?

What are the different types of products available in the global preimplantation genetic testing market?

What are the key development strategies implemented by the key players to stand out in this global preimplantation genetic testing market?

What are the various technologies deployed within the global preimplantation genetic testing market?

How have the strategic collaborations among the key players provided a push to product development within the global preimplantation genetic testing market?

Which are the leading companies that are dominating the global preimplantation genetic testing market?

Based on the application type, which therapy in the global preimplantation genetic testing market is anticipated to witness a massive rise in demand during the forecast period?

How is each segment of the global preimplantation genetic testing market expected to grow during the forecast period, and what revenue will be generated by each segment by the end of 2031?

## Market Overview

Preimplantation genetic diagnosis (PGD) is performed among couples that have a higher risk of transmitting a genetic condition to their offspring. The technique is employed in in-vitro fertilization centers globally to select the euploid embryos to transfer and improve the clinical outcome of the clinical pregnancy, embryo implantation, and live birth rates. The ability to identify the preimplantation embryos with the genetic defects prior to the initiation of the pregnancy also offers an attractive alternative to chorionic villous sampling or amniocentesis.

The preimplantation genetic testing is set to grow at a significant rate in the upcoming years as the technology and awareness regarding the test improve.

The global preimplantation genetic testing market was valued at \$972.1 million in 2020 and is expected to reach \$2,725.7 million by 2031, registering a CAGR of 9.69% during the forecast period 2021-2031.

The growth is attributed to the advancing maternal age globally, rising adoption of in-vitro fertilization, increasing awareness of genetic testing, and rising emphasis on predictive testing. Further, continued significant investments by biotechnology firms to improve the technology for genetic testing and to improve affordability have also promoted the prominence of preimplantation genetic testing.

Within the research report, the market is segmented based on product, application, end user, technology, and region. Each of these segments covers the snapshot of the market over the projected years, the inclination of the market revenue, underlying patterns, and trends by using analytics on the primary and secondary data obtained.

### Competitive Landscape

The exponential rise in the usage of in-vitro fertilization facilities as an option for healthy childbirth and increasing affordability for genetic testing on a global level has created awareness as well as demand among consumers, which has eventually led to the companies to invest in the development of more such preimplantation genetic test. The companies such as Agilent Technologies, Inc. and Natera, Inc. have been incorporating major strategies to enhance their market presence via key developments. The other major contributors to the market include companies such as Thermo Fisher Scientific, PerkinElmer, Inc., Invitae Inc., and Igenomix.

Based on region, North America holds the largest share of the preimplantation genetic testing market due to eased regulatory scenario and a large number of IVF facilities offering such PGT tests. Further, substantial investments made by biotechnology companies to improve the genetic testing facilities and advancing technologies along with the rise in per capita income in the region are also fuelling the growth of the respective market. Apart from this, the Asia-Pacific region is anticipated to grow at the fastest CAGR during the forecast period.

## Contents

### 1 PRODUCT DEFINITION

### 2 RESEARCH METHODOLOGY

- 1.1 Primary Data Sources
- 1.2 Secondary Data Sources
- 1.3 Market Estimation Model

### 3 MARKET OVERVIEW

- 3.1 Introduction
- 3.2 Market Footprint
- 3.3 Impact of Preimplantation Genetic Testing on Pregnancy Outcomes
- 3.4 Impact of COVID-19 Pandemic on Global Preimplantation Genetic Testing Market
- 3.5 COVID-19 Affecting Supply Chain of Global Preimplantation Genetic Testing Market
- 3.6 Interruption in Research and Clinical Development and Commercial Operation
  - 3.6.1 Research and Clinical Development
  - 3.6.2 Commercial Operation and Access
- 3.7 Navigating Crisis Recovery and Looking to the Future

### 4 MARKET DYNAMICS

- 4.1 Overview
- 4.2 Market Driving Factors
  - 4.2.1 Advancing Maternal Age Globally
  - 4.2.2 A Rise in Adoption of In-Vitro Fertilization
  - 4.2.3 Increasing Awareness for Genetic Testing
  - 4.2.4 Rising Emphasis on Predictive Genetic Testing for Early Detection
- 4.3 Market Restraining Factors
  - 4.3.1 Ethical Issues Pertaining to the Preimplantation Genetic Testing
  - 4.3.2 High Procedural Cost Associated with Preimplantation Genetic Testing
- 4.4 Market Opportunities
  - 4.4.1 Decreasing Cost of Genomic Sequencing
  - 4.4.2 The Emergence of Reproductive Tourism

### 5 INDUSTRY ANALYSIS

- 5.1 Legal and Regulatory Framework
  - 5.1.1 Regulatory Framework in the U.S.
  - 5.1.2 Regulatory Framework in Europe
    - 5.1.2.1 U.K.
    - 5.1.2.2 France
    - 5.1.2.3 Italy
  - 5.1.3 Regulatory Framework in Asia-Pacific
    - 5.1.3.1 Japan
    - 5.1.3.2 China
- 5.2 Patent Landscape

## **6 COMPETITIVE LANDSCAPE**

- 6.1 Overview
- 6.2 Key Developments and Strategies
- 6.3 New Offerings
- 6.4 Partnerships
- 6.5 Mergers and Acquisition
- 6.6 Market Share Analysis, by Company

## **7 GLOBAL PREIMPLANTATION GENETIC TESTING MARKET, BY PRODUCT, 2020-2031, \$MILLION**

- 7.1 Overview
- 7.2 Reagents and Consumables
- 7.3 Kits
- 7.4 Services

## **8 GLOBAL PREIMPLANTATION GENETIC TESTING MARKET, BY APPLICATION, 2020-2031, \$MILLION**

- 8.1 Aneuploidy
- 8.2 Structural Chromosomal Abnormalities
- 8.3 Single Gene Disorder
- 8.4 Others

## **9 GLOBAL PREIMPLANTATION GENETIC TESTING MARKET, BY END USER, 2020-2031, \$MILLION**

- 9.1 Overview
- 9.2 Diagnostic Center
- 9.3 Research Center
- 9.4 Others

## **10 GLOBAL PREIMPLANTATION GENETIC TESTING MARKET, BY TECHNOLOGY, 2020-2031, \$MILLION**

- 10.1 Next-Generation Sequencing
- 10.2 Polymerase Chain Reaction
- 10.3 In Situ Hybridization (ISH/FISH)
- 10.4 Microarray

## **11 GLOBAL PREIMPLANTATION GENETIC TESTING MARKET, BY REGION, 2020-2031, \$MILLION**

- 11.1 Overview
- 11.2 North America
  - 11.2.1 North America: Market Dynamics
  - 11.2.2 U.S.
  - 11.2.3 Canada
- 11.3 Europe
  - 11.3.1 Europe: Market Dynamics
  - 11.3.2 U.K.
  - 11.3.3 France
  - 11.3.4 Italy
  - 11.3.5 Spain
  - 11.3.6 Netherlands
  - 11.3.7 Russia
  - 11.3.8 Rest-of-Europe
- 11.4 Asia-Pacific
  - 11.4.1 Japan
  - 11.4.2 China
  - 11.4.3 India
  - 11.4.4 Australia
  - 11.4.5 South Korea
  - 11.4.6 Rest-of-Asia-Pacific
- 11.5 Rest-of-the-World

## 12 COMPANY PROFILES

### 12.1 Overview

### 12.2 Abbott Laboratories

#### 12.2.1 Company Overview

#### 12.2.2 Role of Abbott Laboratories in the Global Preimplantation Genetic Testing

#### Market

#### 12.2.3 Financials

#### 12.2.4 SWOT Analysis

### 12.3 Agilent Technologies, Inc.

#### 12.3.1 Company Overview

#### 12.3.2 Role of Agilent Technologies, Inc. in the Global Preimplantation Genetic Testing

#### Market

#### 12.3.3 Financials

#### 12.3.4 SWOT Analysis

### 12.4 BGI

#### 12.4.1 Company Overview

#### 12.4.2 Role of BGI Group in Global Preimplantation Genetic Testing Market

#### 12.4.3 SWOT Analysis

### 12.5 Fulgent Genetics, Inc.

#### 12.5.1 Company Overview

#### 12.5.2 Role of Fulgent Genetics, Inc. in the Global Preimplantation Genetic Testing

#### Market

#### 12.5.3 Financials

#### 12.5.4 SWOT Analysis

### 12.6 Igenomix

#### 12.6.1 Company Overview

#### 12.6.2 Role of Igenomix in the Global Preimplantation Genetic Testing Market

#### 12.6.3 SWOT Analysis

### 12.7 Illumina, Inc.

#### 12.7.1 Company Overview

#### 12.7.2 Role of Illumina, Inc. in the Global Preimplantation Genetic Testing Market

#### 12.7.3 Financials

#### 12.7.4 SWOT Analysis

### 12.8 Invitae Corporation

#### 12.8.1 Company Overview

#### 12.8.2 Role of Invitae Corporation in the Global Preimplantation Genetic Testing

#### Market

#### 12.8.3 Financials



- 12.8.4 SWOT Analysis
- 12.9 Myriad Genetics, Inc.
  - 12.9.1 Company Overview
  - 12.9.2 Role of Myriad Genetics, Inc. in the Global Preimplantation Genetic Testing Market
  - 12.9.3 Financials
  - 12.9.4 Key Insights About Financial Health of the Company
  - 12.9.5 SWOT Analysis
- 12.1 MedGenome Labs Ltd.
  - 12.10.1 Company Overview
  - 12.10.2 Role of MedGenome in the Global Preimplantation Genetic Testing Market
  - 12.10.3 SWOT Analysis
- 12.11 Natera, Inc.
  - 12.11.1 Company Overview
  - 12.11.2 Role of Natera, Inc. in the Global Preimplantation Genetic Testing Market
  - 12.11.3 Financials
  - 12.11.4 SWOT Analysis
- 12.12 PerkinElmer, Inc.
  - 12.12.1 Company Overview
  - 12.12.2 Role of PerkinElmer, Inc. in the Global Preimplantation Genetic Testing Market
  - 12.12.3 Financials
  - 12.12.4 SWOT Analysis
- 12.13 Pac Genomics
  - 12.13.1 Company Overview
  - 12.13.2 Role of Pac Genomics in the Global Preimplantation Genetic Testing Market
  - 12.13.3 SWOT Analysis
- 12.14 Thermo Fisher Scientific Inc.
  - 12.14.1 Company Overview
  - 12.14.2 Role of Thermo Fisher Scientific Inc. in the Global Preimplantation Genetic Testing Market
  - 12.14.3 Financials
  - 12.14.4 SWOT Analysis

## List Of Figures

### LIST OF FIGURES

- Figure 1: Global Male and Female Infertility Trend, 2015-2019
- Figure 2: Global Preimplantation Genetic Testing Market, 2020-2031
- Figure 3: Market Drivers and Market Restraints
- Figure 4: Share of Key Developments and Strategies, January 2017-October 2021
- Figure 5: Global Preimplantation Genetic Testing Market Research Methodology
- Figure 6: Primary Research Methodology
- Figure 7: Bottom-Up Approach (Segment-Wise Analysis)
- Figure 8: Strategies for Testing via Preimplantation Genetic Diagnosis
- Figure 9: Global Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 10: Pre-COVID-19 and Post-COVID-19 Scenario, Global Preimplantation Genetic Testing Market, 2020-2025
- Figure 11: Measure to Navigate Crisis Recovery
- Figure 12: Global Preimplantation Genetic Testing Market Dynamics
- Figure 13: Live Births Per Women, by Region (Fertility Rate)
- Figure 14: IVF Cycles in Different Age-Groups (2016 and 2018)
- Figure 15: Cost of Genome Sequencing
- Figure 16: Number of Patents (by Year), 2016-2020
- Figure 17: Share of Key Developments and Strategies, January 2017-October 2021
- Figure 18: Product Offering Share (by Company), January 2017-October 2021
- Figure 19: Partnership Activities Share (by Company), January 2017-October 2021
- Figure 20: Mergers and Acquisitions Share (by Company), January 2017-October 2021
- Figure 21: Market Share Analysis: Global Preimplantation Genetic Testing Market Share Analysis (by Company), 2020
- Figure 22: Share of Global Preimplantation Genetic Testing Market, by Product, \$Million, 2020-2031
- Figure 23: Global Preimplantation Genetic Testing Market, Reagents and Consumables, \$Million, 2020-2031
- Figure 24: Global Preimplantation Genetic Testing Market, Kits, \$Million, 2020-2031
- Figure 25: Global Preimplantation Genetic Testing Market, Services, \$Million, 2020-2031
- Figure 26: Global Preimplantation Genetic Testing Market, by Application, \$Million, 2020 and 2031
- Figure 27: Global Preimplantation Genetic Testing Market, Aneuploidy, \$Million, 2020-2031
- Figure 28: Types of Structural Chromosomal Abnormalities

Figure 29: Global Preimplantation Genetic Testing Market, Structural Chromosomal Abnormalities, \$Million, 2020-2031

Figure 30: Pedigree Analysis of Inheritance Pattern of a Dominant Disease

Figure 31: Pedigree Analysis of Inheritance Pattern of a Recessive Disease

Figure 32: Global Preimplantation Genetic Testing Market, Single Gene Disorder, \$Million, 2020-2031

Figure 33: Global Preimplantation Genetic Testing Market, Others, \$Million, 2020-2031

Figure 34: Global Preimplantation Genetic Testing Market, Diagnostic Center, \$Million, 2020-2031

Figure 35: Global Preimplantation Genetic Testing Market, Research Center, \$Million, 2020-2031

Figure 36: Global Preimplantation Genetic Testing Market, Others, \$Million, 2020-2031

Figure 37: Share of Global Preimplantation Genetic Testing Market, by Technology, \$Million, 2020-2031

Figure 38: Global Preimplantation Genetic Testing Market, Next-Generation Sequencing, \$Million, 2020-2031

Figure 39: Global Preimplantation Genetic Testing Market, PCR, \$Million, 2020-2031

Figure 40: Global Preimplantation Genetic Testing Market, ISH, \$Million, 2020-2031

Figure 41: Global Preimplantation Genetic Testing Market, Microarray, \$Million, 2020-2031

Figure 42: Global Preimplantation Genetic Testing Market (by Region)

Figure 43: North America Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 44: North America: Market Dynamics

Figure 45: North America Preimplantation Genetic Testing Market (by Country), \$Million, 2020-2031

Figure 46: U.S. Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 47: Canada Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 48: Europe Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 49: Europe: Market Dynamics

Figure 50: Europe Preimplantation Genetic Testing Market (by Country), 2020 and 2031

Figure 51: U.K. Preimplantation Genetic Testing Market, \$ Million, 2020-2031

Figure 52: France Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 53: Italy Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 54: Spain Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 55: Netherlands Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 56: Russia Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 57: Rest-of-Europe Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 58: Asia-Pacific Preimplantation Genetic Testing Market, \$Million, 2020-2031

Figure 59: Japan Preimplantation Genetic Testing Market, \$Million, 2020-2031

- Figure 60: China Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 61: India Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 62: Australia Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 63: South Korea Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 64: Rest-of-Asia-Pacific Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 65: Rest-of-the-World Preimplantation Genetic Testing Market, \$Million, 2020-2031
- Figure 66: Shares of Key Company Profiles
- Figure 67: Abbott Laboratories.: Overall Product Offerings
- Figure 68: Abbott Laboratories: Overall Financials, 2017-2020
- Figure 69: Abbott Laboratories: Net Revenue (by Business Segment), 2018-2020
- Figure 70: Abbott Laboratories: Net Revenue (by Region), 2017-2019
- Figure 71: Abbott Laboratories: Research and Development Expense, 2018-2020
- Figure 72: Abbott Laboratories: SWOT Analysis
- Figure 73: Agilent Technologies, Inc.: Overall Product Offerings
- Figure 74: Agilent Technologies, Inc.: Overall Financials, 2018-2020
- Figure 75: Agilent Technologies, Inc.: Net Revenue (by Business Segment), 2018-2020
- Figure 76: Agilent Technologies, Inc.: Revenue (by Region), 2018-2020
- Figure 77: Agilent Technologies, Inc.: Research and Development Expense, 2018-2020
- Figure 78: Agilent Technologies, Inc.: SWOT Analysis
- Figure 79: BGI Group.: Overall Product Portfolio
- Figure 80: BGI Group: SWOT Analysis
- Figure 81: Fulgent Genetics, Inc.: Overall Product Offerings
- Figure 82: Fulgent Genetics, Inc.: Overall Financials, 2018-2020
- Figure 83: Fulgent Genetics, Inc.: Net Revenue (by Region), 2018-2020
- Figure 84: Fulgent Genetics, Inc.: Research and Development Expense, 2018-2020
- Figure 85: Fulgent Genetics, Inc.: SWOT Analysis
- Figure 86: Igenomix: Overall Product Portfolio
- Figure 87: Igenomix.: SWOT Analysis
- Figure 88: Illumina, Inc.: Overall Product Portfolio
- Figure 89: Illumina, Inc.: Overall Financials, 2018-2020
- Figure 90: Illumina, Inc.: Revenue (by Segment), 2018-2020
- Figure 91: Illumina, Inc.: Revenue (by Region), 2018-2020
- Figure 92: Illumina, Inc.: R&D Expenditure, 2018-2020
- Figure 93: Illumina, Inc.: SWOT Analysis
- Figure 94: Invitae Corporation: Overall Product Offerings
- Figure 95: Invitae Corporation: Overall Financials, 2018-2020
- Figure 96: Invitae Corporation: Revenue (by Segment), 2018-2020

- Figure 97: Invitae Corporation: Revenue (by Region), 2018-2020
- Figure 98: Invitae Corporation: R&D Expenditure, 2018-2020
- Figure 99: Invitae Corporation: SWOT Analysis
- Figure 100: Myriad Genetics, Inc.: Product Portfolio
- Figure 101: Myriad Genetics, Inc.: Overall Financials, 2018-2020
- Figure 102: Myriad Genetics, Inc.: Revenue (by Business Segment), 2018-2020
- Figure 103: Myriad Genetics, Inc.: R&D Expenditure, 2018-2020
- Figure 104: Myriad Genetics, Inc.: SWOT Analysis
- Figure 105: MedGenome: Overall Product Portfolio
- Figure 106: MedGenome: SWOT Analysis
- Figure 107: Natera, Inc.: Overall Product Offerings
- Figure 108: Natera, Inc.: Overall Financials, 2018-2020
- Figure 109: Natera, Inc.: R&D Expenditure, 2018-2020
- Figure 110: Natera, Inc.: SWOT Analysis
- Figure 111: PerkinElmer, Inc.: Overall Product Offerings
- Figure 112: PerkinElmer, Inc.: Overall Financials, 2018-2020
- Figure 113: PerkinElmer, Inc.: Revenue (by Segment), 2018-2020
- Figure 114: PerkinElmer, Inc.: R&D Expenditure, 2018-2020
- Figure 115: PerkinElmer, Inc.: SWOT Analysis
- Figure 116: Pac Genomics.: Overall Product Offerings
- Figure 117: Pac Genomics: SWOT Analysis
- Figure 118: Thermo Fisher Scientific Inc.: Overall Product Portfolio
- Figure 119: Thermo Fisher Scientific Inc.: Overall Financials, 2018-2020
- Figure 120: Thermo Fisher Scientific Inc.: Revenue (by Segment), 2018-2020
- Figure 121: Thermo Fisher Scientific Inc.: R&D Expenditure, 2018-2020
- Figure 122: Thermo Fisher Scientific Inc.: SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Incidence of Aneuploidies

Table 2: Global Incidence of Major Single Gene Disorders

## I would like to order

Product name: Preimplantation Genetic Testing Market - A Global and Regional Analysis: Focus on Product, Application, Technology, End User, Country Data (15 Countries) - Analysis and Forecast, 2021-2031

Product link: <https://marketpublishers.com/r/PB1FC9E0575FEN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PB1FC9E0575FEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970