

# **Gene Synthesis Market Size, Trends, Analysis, and Outlook By Method (Solid-phase Synthesis, Chip-based Synthesis, PCR-based Enzyme Synthesis), By Service (Antibody DNA Synthesis, Viral DNA Synthesis, Others), By Application (Gene & Cell Therapy Development, Vaccine Development, Disease Diagnosis, Others), By End-User (Biotechnology and pharmaceutical companies, Academic and government research institutes, Contract research organizations), by Region, Country, Segment, and Companies, 2024-2030**

<https://marketpublishers.com/r/G0B8DF8E8F53EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: G0B8DF8E8F53EN

## **Abstracts**

The global Gene Synthesis market size is poised to register 17.68% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Gene Synthesis market across By Method (Solid-phase Synthesis, Chip-based Synthesis, PCR-based Enzyme Synthesis), By Service (Antibody DNA Synthesis, Viral DNA Synthesis, Others), By Application (Gene & Cell Therapy Development, Vaccine Development, Disease Diagnosis, Others), By End-User (Biotechnology and pharmaceutical companies, Academic and government research institutes, Contract research organizations).

The gene synthesis market is experiencing notable growth propelled by the increasing demand for synthetic genes in various applications such as recombinant protein production, gene therapy, and synthetic biology research. In 2024 and beyond, factors such as the expanding applications in vaccine development, gene editing, and gene

circuit design, rising investments in synthetic biology startups, and advancements in gene synthesis technologies are driving market evolution. Additionally, the development of high-throughput gene synthesis platforms, optimization of gene assembly techniques like Gibson assembly and Golden Gate cloning, and collaborations between biotechnology companies and academic laboratories contribute to market expansion.

## Gene Synthesis 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 Gene Synthesis market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Gene Synthesis 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 Gene Synthesis industry.

## Key market trends defining the global Gene Synthesis 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.

## Gene Synthesis Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Gene Synthesis 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 Gene Synthesis companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Gene Synthesis industry

Leading Gene Synthesis 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 Gene Synthesis companies.

### Gene Synthesis Market Study- Strategic Analysis Review

The Gene Synthesis 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.

### Gene Synthesis Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Gene Synthesis 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 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Gene Synthesis Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. 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 2030.

### North America Gene Synthesis 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 end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Gene Synthesis market segments. Similarly, Strong end-user demand is encouraging Canadian Gene Synthesis companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Gene Synthesis market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Gene Synthesis Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Gene Synthesis 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 businesses in identifying and leveraging new growth prospects positions the European Gene Synthesis 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 Gene Synthesis 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 Gene Synthesis in Asia Pacific. In particular, China, India, and South East Asian Gene Synthesis markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers 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 markets in the region.

Latin America Gene Synthesis 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 Gene Synthesis 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 Gene Synthesis market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Gene Synthesis.

### Gene Synthesis Market Company Profiles

The global Gene Synthesis 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 Biomatik, Boster Biological Technology, Brooks Automation Inc (GENEWIZ), GenScript, Integrated DNA Technologies Inc, OriGene Technologies Inc, ProMab Biotechnologies Inc, ProteoGenix Inc, Thermo Fisher Scientific Inc, Twist Bioscience

### Recent Gene Synthesis Market Developments

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

### Gene Synthesis Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (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 Method

Solid-phase Synthesis

Chip-based Synthesis

PCR-based Enzyme Synthesis

By Services

Antibody DNA Synthesis

Viral DNA Synthesis

Others

*Gene Synthesis Market Size, Trends, Analysis, and Outlook By Method (Solid-phase Synthesis, Chip-based Synthes...*

## By Application

Gene & Cell Therapy Development

Vaccine Development

Disease Diagnosis

Others

## By End-User

Biotechnology and pharmaceutical companies

Academic and government research institutes

Contract research organizations

## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Biomatik

Boster Biological Technology

Brooks Automation Inc (GENEWIZ)

GenScript

Integrated DNA Technologies Inc

OriGene Technologies Inc

ProMab Biotechnologies Inc

ProteoGenix Inc

Thermo Fisher Scientific Inc

Twist Bioscience

Formats Available: Excel, PDF, and PPT



## Contents

### 1. EXECUTIVE SUMMARY

- 1.1 Gene Synthesis Market Overview and Key Findings, 2024
- 1.2 Gene Synthesis Market Size and Growth Outlook, 2021- 2030
- 1.3 Gene Synthesis Market Growth Opportunities to 2030
- 1.4 Key Gene Synthesis Market Trends and Challenges
  - 1.4.1 Gene Synthesis Market Drivers and Trends
  - 1.4.2 Gene Synthesis Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading Gene Synthesis Companies

### 2. GENE SYNTHESIS MARKET SIZE OUTLOOK TO 2030

- 2.1 Gene Synthesis Market Size Outlook, USD Million, 2021- 2030
- 2.2 Gene Synthesis Incremental Market Growth Outlook, %, 2021- 2030
- 2.3 Segment Snapshot, 2024

### 3. GENE SYNTHESIS MARKET- STRATEGIC ANALYSIS REVIEW

- 3.1 Porter's Five Forces Analysis
  - \* Threat of New Entrants
  - \* Threat of Substitutes
  - \* Intensity of Competitive Rivalry
  - \* Bargaining Power of Buyers
  - \* Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

### 4. GENE SYNTHESIS MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Method
    - Solid-phase Synthesis
    - Chip-based Synthesis
    - PCR-based Enzyme Synthesis

#### By Services

Antibody DNA Synthesis

Viral DNA Synthesis

Others

#### By Application

Gene & Cell Therapy Development

Vaccine Development

Disease Diagnosis

Others

#### By End-User

Biotechnology and pharmaceutical companies

Academic and government research institutes

Contract research organizations

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

4.4 Regional comparison of Market Growth, CAGR, 2023-2030

## 5. REGION-WISE MARKET OUTLOOK TO 2030

5.1 Key Findings for Asia Pacific Gene Synthesis Market, 2025

5.2 Asia Pacific Gene Synthesis Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Gene Synthesis Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe Gene Synthesis Market, 2025

5.5 Europe Gene Synthesis Market Size Outlook by Type, 2021- 2030

5.6 Europe Gene Synthesis Market Size Outlook by Application, 2021- 2030

5.7 Key Findings for North America Gene Synthesis Market, 2025

5.8 North America Gene Synthesis Market Size Outlook by Type, 2021- 2030

5.9 North America Gene Synthesis Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America Gene Synthesis Market, 2025

5.11 South America Pacific Gene Synthesis Market Size Outlook by Type, 2021- 2030

5.12 South America Gene Synthesis Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Gene Synthesis Market, 2025

5.14 Middle East Africa Gene Synthesis Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Gene Synthesis Market Size Outlook by Application, 2021- 2030

## 6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Gene Synthesis Market Size Outlook and Revenue Growth Forecasts

6.2 US Gene Synthesis Industry Drivers and Opportunities

- 6.3 Canada Market Size Outlook and Revenue Growth Forecasts
- 6.4 Canada Gene Synthesis Industry Drivers and Opportunities
- 6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
- 6.6 Mexico Gene Synthesis Industry Drivers and Opportunities
- 6.7 Germany Market Size Outlook and Revenue Growth Forecasts
- 6.8 Germany Gene Synthesis Industry Drivers and Opportunities
- 6.9 France Market Size Outlook and Revenue Growth Forecasts
- 6.10 France Gene Synthesis Industry Drivers and Opportunities
- 6.11 UK Market Size Outlook and Revenue Growth Forecasts
- 6.12 UK Gene Synthesis Industry Drivers and Opportunities
- 6.13 Spain Market Size Outlook and Revenue Growth Forecasts
- 6.14 Spain Gene Synthesis Industry Drivers and Opportunities
- 6.16 Italy Market Size Outlook and Revenue Growth Forecasts
- 6.16 Italy Gene Synthesis Industry Drivers and Opportunities
- 6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
- 6.18 Rest of Europe Gene Synthesis Industry Drivers and Opportunities
- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China Gene Synthesis Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India Gene Synthesis Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan Gene Synthesis Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Gene Synthesis Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Gene Synthesis Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Gene Synthesis Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Gene Synthesis Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Gene Synthesis Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Gene Synthesis Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Gene Synthesis Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Gene Synthesis Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts

## 6.42 Africa Gene Synthesis Industry Drivers and Opportunities

## 7. GENE SYNTHESIS MARKET OUTLOOK ACROSS SCENARIOS

### 7.1 Low Growth Case

### 7.2 Reference Growth Case

### 7.3 High Growth Case

## 8. GENE SYNTHESIS COMPANY PROFILES

### 8.1 Profiles of Leading Gene Synthesis Companies in the Market

### 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies

### 8.3 Financial Performance and Key Metrics

Biomatik

Boster Biological Technology

Brooks Automation Inc (GENEWIZ)

GenScript

Integrated DNA Technologies Inc

OriGene Technologies Inc

ProMab Biotechnologies Inc

ProteoGenix Inc

Thermo Fisher Scientific Inc

Twist Bioscience

## 9. APPENDIX

### 9.1 Scope of the Report

### 9.2 Research Methodology and Data Sources

### 9.3 Glossary of Terms

### 9.4 Market Definitions

### 9.5 Contact Information

## I would like to order

Product name: Gene Synthesis Market Size, Trends, Analysis, and Outlook By Method (Solid-phase Synthesis, Chip-based Synthesis, PCR-based Enzyme Synthesis), By Service (Antibody DNA Synthesis, Viral DNA Synthesis, Others), By Application (Gene & Cell Therapy Development, Vaccine Development, Disease Diagnosis, Others), By End-User (Biotechnology and pharmaceutical companies, Academic and government research institutes, Contract research organizations), by Region, Country, Segment, and Companies, 2024-2030

Product link: <https://marketpublishers.com/r/G0B8DF8E8F53EN.html>

Price: US\$ 3,980.00 (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/G0B8DF8E8F53EN.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