

# Synthetic Biology Market - 2025-2033

<https://marketpublishers.com/r/S7CD6181CF4EEN.html>

Date: March 2026

Pages: 243

Price: US\$ 2,999.00 (Single User License)

ID: S7CD6181CF4EEN

## Abstracts

The Synthetic Biology Market was valued at US\$ 14.96 Billion in 2025 and is anticipated to reach US\$ 67.47 Billion by 2033, at a CAGR of 0.209 from 2026 to 2032.

The report delivers in-depth insights into key market dynamics, including regional growth trends, market segmentation, CAGR projections, and the revenue performance of leading industry players. It also highlights major growth drivers shaping the market landscape. Designed to provide a clear and comprehensive perspective, the report offers a detailed view of the current market size in terms of both value and volume, along with emerging opportunities and the overall development outlook of the Synthetic Biology Market.

This report delivers a comprehensive overview of the Synthetic Biology Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding Synthetic Biology Market. The Synthetic Biology Market size, estimates, and forecasts are provided in terms of output/shipments (K MT) and revenue (US\$ millions), with 2025 as the base year and historical and forecast data for 2025–2033.

Synthetic Biology Market Scope:

Key Players

Illumina, Inc.

Merck KGaA

Thermo Fisher Scientific Inc.

Bota Biosciences

Codexis, Inc.

Twist Bioscience

Creative Biogene

Eurofins Genomics

## Major Highlights

This report delivers a comprehensive overview of the Synthetic Biology Market, with both quantitative and qualitative analyses, to help readers develop growth strategies, assess the competitive landscape, evaluate their position in the current market, and make informed business decisions regarding Synthetic Biology Market. The Synthetic Biology Market size, estimates, and forecasts are provided in terms of output/shipments (K Sqm) and revenue (US\$ millions), with 2025 as the base year and historical and forecast data for 2025–2033.

This report will assist keyword manufacturers, new entrants, and companies across the industry value chain with information on revenues, production, and average prices for the overall market and its sub-segments, by company, by Type, by Application, and by region.

## Regional Analysis:

North America (U.S., Canada, Mexico)

Europe (U.K., Italy, Germany, Russia, France, Spain, The Netherlands and Rest of Europe)

Asia-Pacific (India, Japan, China, South Korea, Australia, Indonesia Rest of Asia Pacific)

South America (Colombia, Brazil, Argentina, Rest of South America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of Middle East & Africa)

## Partner Identification

Increase Your Customer Base by 3X using our Partner Identification tool

Uncover strategic collaboration opportunities with DataM vetted partners aligned to your ecosystem.

Identify high potential M&A targets based on synergies, market positioning and growth trajectory.

Prioritize partners by strategic fit rather than general capability.

## Why Choose DataM?

**Data-Driven Insights:** Dive into detailed analyses with granular insights such as pricing, market shares and value chain evaluations, enriched by interviews with industry leaders and disruptors.

**Post-Purchase Support and Expert Analyst Consultations:** As a valued client, gain direct access to our expert analysts for personalized advice and strategic guidance, tailored to your specific needs and challenges.

**White Papers and Case Studies:** Benefit quarterly from our in-depth studies related to your purchased titles, tailored to refine your operational and marketing strategies for maximum impact.

**Annual Updates on Purchased Reports:** As an existing customer, enjoy the privilege of annual updates to your reports, ensuring you stay abreast of the latest market insights and technological advancements. Terms and conditions apply.

**Specialized Focus on Emerging Markets:** DataM differentiates itself by delivering in-depth, specialized insights specifically for emerging markets, rather than offering generalized geographic overviews. This approach equips our clients

with a nuanced understanding and actionable intelligence that are essential for navigating and succeeding in high-growth regions.

**Value of DataM Reports:** Our reports offer specialized insights tailored to the latest trends and specific business inquiries. This personalized approach provides a deeper, strategic perspective, ensuring you receive the precise information necessary to make informed decisions. These insights complement and go beyond what is typically available in generic databases.

### Target Audience 2026

Manufacturers/ Buyers

Industry Investors/Investment Bankers

Research Professionals

Emerging Companies

## Contents

### **1. MARKET INTRODUCTION AND SCOPE**

- 1.1. Objectives of the Report
- 1.2. Report Coverage & Definitions
- 1.3. Report Scope

### **2. EXECUTIVE INSIGHTS AND KEY TAKEAWAYS**

- 2.1. Market Highlights and Strategic Takeaways
- 2.2. Key Trends and Future Projections
- 2.3. Snippet by Product Type
- 2.4. Snippet by Technology
- 2.5. Snippet by Application
- 2.6. Snippet by End-User
- 2.7. Snippet by Region

### **3. DYNAMICS**

- 3.1. Impacting Factors
  - 3.1.1. Drivers
    - 3.1.1.1. Diverse Medical Applications of Synthetic Biology
    - 3.1.1.2. Rising Demand for Bio-Based Products
  - 3.1.2. Restraints
    - 3.1.2.1. Ethical, Safety & Public Perception Concerns
    - 3.1.2.2. Technical Complexity & Unpredictability of Biology
  - 3.1.3. Opportunity
    - 3.1.3.1. Next-Generation Healthcare & Personalized Medicine
    - 3.1.3.2. Alternative Proteins & Sustainable Food Systems
  - 3.1.4. Impact Analysis

### **4. STRATEGIC INSIGHTS AND INDUSTRY OUTLOOK**

- 4.1. Market Leaders and Pioneers
  - 4.1.1. Emerging Pioneers and Prominent Players
  - 4.1.2. Established Leaders with the Largest Marketing Brand
  - 4.1.3. Market Leaders with Established Products
- 4.2. Latest Developments and Breakthroughs

- 4.3. Regulatory and Reimbursement Landscape
  - 4.3.1. North America
  - 4.3.2. Europe
  - 4.3.3. Asia Pacific
  - 4.3.4. South America
  - 4.3.5. Middle East & Africa
- 4.4. Porter's Five Forces Analysis
- 4.5. Patent Analysis
- 4.6. Unmet Needs and Gaps
- 4.7. Recommended Strategies for Market Entry and Expansion
- 4.8. Pricing Analysis and Price Dynamics

## **5. SYNTHETIC BIOLOGY MARKET, BY PRODUCT TYPE**

- 5.1. Introduction
  - 5.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type
  - 5.1.2. Market Attractiveness Index, By Product Type
- 5.2. Oligonucleotides and Synthetic DNA\*
  - 5.2.1. Introduction
  - 5.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
- 5.3. Enzymes
- 5.4. Cloning Technologies Kits
- 5.5. Synthetic Cells
- 5.6. Xeno-Nucleic Acids
- 5.7. Chassis Organism
- 5.8. Others

## **6. SYNTHETIC BIOLOGY MARKET, BY TECHNOLOGY**

- 6.1. Introduction
  - 6.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology
  - 6.1.2. Market Attractiveness Index, By Technology
- 6.2. Genome Engineering\*
  - 6.2.1. Introduction
  - 6.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)
- 6.3. Sequencing
- 6.4. Bioinformatics
- 6.5. Cloning
- 6.6. Nanotechnology

## 6.7. Others

## **7. SYNTHETIC BIOLOGY MARKET, BY APPLICATION**

### 7.1. Introduction

7.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

7.1.2. Market Attractiveness Index, By Application

### 7.2. Medical Applications\*

7.2.1. Introduction

7.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

7.2.3. Pharmaceuticals

7.2.4. Drug Discovery & Therapeutics

7.2.5. Artificial Tissue & Tissue Regeneration

7.2.6. Others

### 7.3. Industrial Applications

7.3.1. Biofuels & Renewable Energy

7.3.2. Industrial Enzymes

7.3.3. Biomaterials & Green Chemicals

7.3.4. Others

### 7.4. Food and Animal Health Applications

### 7.5. Agricultural Applications

### 7.6. Environmental Applications

### 7.7. Others

## **8. SYNTHETIC BIOLOGY MARKET, BY END-USER**

### 8.1. Introduction

8.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

8.1.2. Market Attractiveness Index, By End-User

### 8.2. Pharmaceutical & Biotechnology Companies\*

8.2.1. Introduction

8.2.2. Market Size Analysis and Y-o-Y Growth Analysis (%)

### 8.3. Industrial & Chemical Companies

### 8.4. Food & Beverage Companies

### 8.5. Academic and Research Institutes

### 8.6. Others

## **9. SYNTHETIC BIOLOGY MARKET, BY REGIONAL MARKET ANALYSIS AND GROWTH OPPORTUNITIES**

## 9.1. Introduction

9.1.1. Market Size Analysis and Y-o-Y Growth Analysis (%), By Region

9.1.2. Market Attractiveness Index, By Region

## 9.2. North America

9.2.1. Introduction

9.2.2. Key Region-Specific Dynamics

9.2.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

9.2.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology

9.2.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

9.2.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

9.2.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country

9.2.7.1. U.S.

9.2.7.2. Canada

9.2.7.3. Mexico

## 9.3. Europe

9.3.1. Introduction

9.3.2. Key Region-Specific Dynamics

9.3.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

9.3.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology

9.3.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

9.3.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

9.3.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country

9.3.7.1. Germany

9.3.7.2. UK

9.3.7.3. France

9.3.7.4. Spain

9.3.7.5. Italy

9.3.7.6. Rest of Europe

## 9.4. Asia-Pacific

9.4.1. Introduction

9.4.2. Key Region-Specific Dynamics

9.4.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

9.4.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology

9.4.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

9.4.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

9.4.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country

9.4.7.1. China

9.4.7.2. India

9.4.7.3. Japan

9.4.7.4. South Korea

9.4.7.5. Rest of Asia-Pacific

## 9.5. South America

9.5.1. Introduction

9.5.2. Key Region-Specific Dynamics

9.5.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

9.5.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology

9.5.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

9.5.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

9.5.7. Market Size Analysis and Y-o-Y Growth Analysis (%), By Country

9.5.7.1. Brazil

9.5.7.2. Argentina

9.5.7.3. Rest of South America

## 9.6. Middle East and Africa

9.6.1. Introduction

9.6.2. Key Region-Specific Dynamics

9.6.3. Market Size Analysis and Y-o-Y Growth Analysis (%), By Product Type

9.6.4. Market Size Analysis and Y-o-Y Growth Analysis (%), By Technology

9.6.5. Market Size Analysis and Y-o-Y Growth Analysis (%), By Application

9.6.6. Market Size Analysis and Y-o-Y Growth Analysis (%), By End-User

## 10. COMPETITIVE LANDSCAPE AND MARKET POSITIONING

10.1. Competitive Overview and Key Market Players

10.2. Market Share Analysis and Positioning Matrix

10.3. Strategic Partnerships, Mergers & Acquisitions

10.4. Key Developments in Product Portfolios and Innovations

10.5. Company Benchmarking

## 11. COMPANY PROFILES

11.1. Illumina, Inc.\*

11.1.1. Company Overview

11.1.2. Product Portfolio

11.1.2.1. Product Description

11.1.2.2. Product Key Performance Indicators (KPIs)

11.1.3. Financial Overview

11.1.3.1. Company Revenue

- 11.1.3.2. Geographical Revenue Shares
- 11.1.3.3. Revenue Forecasts
- 11.1.4. Key Developments
  - 11.1.4.1. Mergers & Acquisitions
  - 11.1.4.2. Key Product Development Activities
  - 11.1.4.3. Regulatory Approvals, etc.
  - 11.1.4.4. SWOT Analysis
- 11.2. Merck KGaA
- 11.3. Thermo Fisher Scientific Inc.
- 11.4. Bova Biosciences
- 11.5. Codexis, Inc.
- 11.6. Twist Bioscience
- 11.7. Creative Biogene
- 11.8. Eurofins Genomics (LIST NOT EXHAUSTIVE)

## **12. ASSUMPTIONS AND RESEARCH METHODOLOGY**

- 12.1. Data Collection Methods
- 12.2. Data Triangulation
- 12.3. Forecasting Techniques
- 12.4. Data Verification and Validation

## **13. APPENDIX**

- 13.1. About Us and Services
- 13.2. Contact Us

## I would like to order

Product name: Synthetic Biology Market - 2025-2033

Product link: <https://marketpublishers.com/r/S7CD6181CF4EEN.html>

Price: US\$ 2,999.00 (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/S7CD6181CF4EEN.html>