

Global Synthetic Biology Market - 2025 -2033

<https://marketpublishers.com/r/G4823070F0CEEN.html>

Date: October 2025

Pages: 180

Price: US\$ 4,350.00 (Single User License)

ID: G4823070F0CEEN

Abstracts

Synthetic Biology Market Size

The global synthetic biology market size reached US\$ 12.37 Billion in 2024 from US\$ 10.38 Billion in 2023 and is expected to reach US\$ 67.47 Billion by 2033, growing at a CAGR of 20.9% during the forecast period 2025-2033.

Synthetic Biology Market Overview

The synthetic biology market growth is driven by rising demand for sustainable bio-based solutions (biofuels, bioplastics, circular economy chemicals) and healthcare breakthroughs (vaccines, diagnostics, personalized medicine) are pushing synthetic biology into mainstream industries.

North America dominates the synthetic biology market with the largest revenue share of 43.14% in 2024.

The Asia Pacific is the fastest-growing region and is expected to grow at the fastest CAGR of 21.1% over the forecast period.

Based on product type, the oligonucleotides and synthetic DNA segment led the market with the largest revenue share of 34.12% in 2024.

Based on application, the medical applications segment is expected to lead the market with the largest revenue share of 42.31% in 2024.

The major market players in the synthetic biology market are Illumina, Inc., Merck KGaA, Thermo Fisher Scientific Inc., Bova Biosciences, Codexis, Inc., Twist Bioscience, Creative Biogene and Eurofins Genomics, among others

Synthetic Biology Market Dynamics

Drivers - Diverse medical applications of synthetic biology are significantly driving the synthetic biology market growth

The diverse medical applications of synthetic biology are significantly driving market growth by transforming how therapies, vaccines, diagnostics, and drug manufacturing are approached. Synthetic biology enables precision medicine through innovations like CRISPR Therapeutics' exa-cel, approved in 2023 for sickle cell disease and beta-thalassemia, showcasing the real-world impact of engineered gene-editing therapies. Vaccine development has also been revolutionized, with Moderna's mRNA platform, rooted in synthetic biology, enabling rapid vaccine design, as seen during the COVID-19 pandemic.

Meanwhile, advanced medical technologies like biohybrid microswimmers are being designed for targeted drug delivery to tumor sites, and Organovo's 3D-printed human tissues are being adopted for disease modeling and preclinical drug testing, with its FXR program recently acquired by Eli Lilly in 2025. Collectively, these applications highlight how synthetic biology is expanding from lab research into real-world medical solutions, fueling investor confidence, accelerating commercialization, and driving sustained growth across the healthcare sector.

Restraints - Ethical, safety & public perception concerns are hampering the growth of the synthetic biology market

Ethical, safety, and public perception concerns are acting as major restraints on the growth of the synthetic biology market, as they directly influence regulatory decisions, investment confidence, and consumer adoption. A primary issue stems from biosafety risks, where the possibility of engineered organisms escaping into the environment raises fears of unintended ecological consequences. Similarly, biosecurity concerns, particularly the fear that synthetic biology tools could be misused to create harmful pathogens, have prompted governments to impose tighter oversight on DNA synthesis providers, increasing compliance burdens for legitimate companies.

Ethical debates also play a significant role, with critics questioning the morality of "creating synthetic life" and raising concerns about potential misuse of technologies like gene editing and minimal genomes. Public perception compounds these issues, such

as consumer skepticism toward “lab-grown” or “synthetic” food products has slowed the rollout of innovations such as cultivated meat and animal-free dairy proteins, despite their environmental benefits.

Segmentation Analysis

The global synthetic biology market is segmented based on product type, technology, application, end-user, and region.

Product Type: The oligonucleotides and synthetic DNA segment is dominating the synthetic biology market with a 34.12% share in 2024

Oligonucleotides and synthetic DNA remain dominant in the synthetic biology market, primarily as indispensable tools across research, diagnostics, and therapeutics. The reagents and consumables used in oligo workflows also dominate, bolstered by recurring purchase cycles and high demand in R&D and biotech applications. Recent breakthroughs in synthetic DNA products underscore this dominance.

For instance, in May 2025, Ribbon Bio GmbH, the DNA synthesis company, launched MiroSynth DNA, its first commercial product designed to meet the growing demand for complex and highly accurate synthetic DNA molecules. MiroSynth DNA is built on Ribbon’s proprietary algorithm-driven technology and precision enzymatic assembly process, delivering exceptional accuracy and performance for applications initially in biopharma, life sciences, and academic research.

Technological improvements continue the segment’s growth, for instance, Twist Bioscience introduced its “Express Genes” rapid gene synthesis service in late 2023, offering full-length gene constructs in just 5–7 business days, marrying the efficiency of gene synthesis with the precision required in synthetic biology applications. These developments illustrate that oligonucleotides and synthetic DNA are not just foundational, they’re the fastest-evolving and highest-volume segments in synthetic biology, supported by continuous innovations in synthesis speed, fidelity, scale, and regulatory-grade production.

Application - The medical applications segment is dominating the synthetic biology market with a 54.21% share in 2024

The medical applications segment is dominating the synthetic biology market as it has become the largest and fastest-growing area of adoption, driven by its central role in

drug discovery, precision medicine, vaccines, and advanced therapies. The segment is reflecting strong demand for genome editing, synthetic gene synthesis, and engineered biologics. This dominance is exemplified by breakthroughs such as CRISPR Therapeutics' exa-cel, approved for sickle cell disease and beta-thalassemia, and Moderna's mRNA vaccine platform, which relies heavily on synthetic biology to rapidly design and scale vaccines.

Synthetic biology is also enabling entirely new therapeutic categories and novel product launches. For instance, in May 2025, RootPath launched Megabase Spark, a quarterly initiative aimed at providing impactful but underfunded research projects with free synthetic DNA. Each quarter, RootPath will award up to 500,000 base pairs of its rBlocks synthetic DNA to selected researchers. RootPath is committed to giving away a total of 3 million base pairs by the end of 2026, helping to accelerate breakthrough discoveries in biotechnology, medicine, and life sciences. Collectively, these innovations show how medical applications are not only leveraging synthetic biology to address urgent global health challenges but also shaping the commercial landscape, cementing healthcare as the dominant and most influential segment within the synthetic biology market.

Geographical Analysis

North America is expected to dominate the global synthetic biology market with a 42.52% in 2024

The United States is the clear leader in the global synthetic biology market, which is fueled by strong government funding from agencies like the NIH, NSF, DOE, and DARPA, which have spearheaded initiatives such as the Living Foundries program to accelerate bioengineering innovation. Academic hubs like the Innovative Genomics Institute are advancing CRISPR-based therapies, including groundbreaking personalized genetic treatments.

Alongside these giants, biotech innovators like Illumina, Inc., Merck KGaA, Thermo Fisher Scientific Inc., Twist Bioscience, and Bova Biosciences continue to push the frontier in the development of advanced synthetic biology products. With robust infrastructure, deep venture capital funding, and cutting-edge research clusters from Boston to San Francisco, the U.S. serves as the global epicenter of synthetic biology innovation and commercialization, outpacing other regions in both scale and speed of adoption.

Competitive Landscape

Top companies in the synthetic biology market include Illumina, Inc., Merck KGaA, Thermo Fisher Scientific Inc., Bota Biosciences, Codexis, Inc., Twist Bioscience, Creative Biogene, and Eurofins Genomics, among others.

Bota Biosciences: Bota Biosciences is a major market leader in synthetic biology. Camino is a recently launched service powered by Bota Bio's cutting-edge synthetic biology technology platform. Bota Biosciences has deep scientific expertise and excels in discovering and optimizing enzymes, proteins, and peptides, with a particular emphasis on driving advancements in food and nutrition, alongside industrial and pharmaceutical applications. Bota Biosciences provides milligram quantities of enzymes, proteins, and peptides for early testing and can scale up to full manufacturing within collaborative projects. Recent launches showcase Bota's ability to bring lab innovations directly to market.

The global synthetic biology market report delivers a detailed analysis with 64 key tables, more than 72 visually impactful figures, and 159 pages of expert insights, providing a complete view of the market landscape.

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

List Of Tables

LIST OF TABLES

Table 1 Global Synthetic Biology Market Value, By Product Type, 2025, 2029 & 2033 (US\$ Billion)

Table 2 Global Synthetic Biology Market Value, By Technology, 2025, 2029 & 2033 (US\$ Billion)

Table 3 Global Synthetic Biology Market Value, By Application, 2025, 2029 & 2033 (US\$ Billion)

Table 4 Global Synthetic Biology Market Value, By End-User, 2025, 2029 & 2033 (US\$ Billion)

Table 5 Global Synthetic Biology Market Value, By Region, 2025, 2029 & 2033 (US\$ Billion)

Table 6 Global Synthetic Biology Market Value, By Product Type, 2025, 2029 & 2033 (US\$ Billion)

Table 7 Global Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 8 Global Synthetic Biology Market Value, By Technology, 2025, 2029 & 2033 (US\$ Billion)

Table 9 Global Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 10 Global Synthetic Biology Market Value, By Application, 2025, 2029 & 2033 (US\$ Billion)

Table 11 Global Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 12 Global Synthetic Biology Market Value, By End-User, 2025, 2029 & 2033 (US\$ Billion)

Table 13 Global Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 14 Global Synthetic Biology Market Value, By Region, 2025, 2029 & 2033 (US\$ Billion)

Table 15 Global Synthetic Biology Market Value, By Region, 2022-2033 (US\$ Billion)

Table 16 North America Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 17 North America Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 18 North America Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 19 North America Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 20 North America Synthetic Biology Market Value, By Country, 2022-2033 (US\$ Billion)

Table 21 Europe Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 22 Europe Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 23 Europe Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 24 Europe Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 25 Europe Synthetic Biology Market Value, By Country, 2022-2033 (US\$ Billion)

Table 26 Asia-Pacific Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 27 Asia-Pacific Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 28 Asia-Pacific Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 29 Asia-Pacific Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 30 Asia-Pacific Synthetic Biology Market Value, By Country, 2022-2033 (US\$ Billion)

Table 31 South America Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 32 South America Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 33 South America Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 34 South America Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 35 South America Synthetic Biology Market Value, By Country, 2022-2033 (US\$ Billion)

Table 36 Middle East and Africa Synthetic Biology Market Value, By Product Type, 2022-2033 (US\$ Billion)

Table 37 Middle East and Africa Synthetic Biology Market Value, By Technology, 2022-2033 (US\$ Billion)

Table 38 Middle East and Africa Synthetic Biology Market Value, By Application, 2022-2033 (US\$ Billion)

Table 39 Middle East and Africa Synthetic Biology Market Value, By End-User, 2022-2033 (US\$ Billion)

Table 40 Middle East and Africa Synthetic Biology Market Value, By Country,

2022-2033 (US\$ Billion)

Table 41 Illumina, Inc.: Overview

Table 42 Illumina, Inc.: Product Portfolio

Table 43 Illumina, Inc.: Key Developments

Table 44 Merck KGaA: Overview

Table 45 Merck KGaA: Product Portfolio

Table 46 Merck KGaA: Key Developments

Table 47 Thermo Fisher Scientific Inc.: Overview

Table 48 Thermo Fisher Scientific Inc.: Product Portfolio

Table 49 Thermo Fisher Scientific Inc.: Key Developments

Table 50 Bota Biosciences: Overview

Table 51 Bota Biosciences: Product Portfolio

Table 52 Bota Biosciences: Key Developments

Table 53 Codexis, Inc.: Overview

Table 54 Codexis, Inc.: Product Portfolio

Table 55 Codexis, Inc.: Key Developments

Table 56 Twist Bioscience: Overview

Table 57 Twist Bioscience: Product Portfolio

Table 58 Twist Bioscience: Key Developments

Table 59 Creative Biogene: Overview

Table 60 Creative Biogene: Product Portfolio

Table 61 Creative Biogene: Key Developments

Table 62 Eurofins Genomics: Overview

Table 63 Eurofins Genomics: Product Portfolio

Table 64 Eurofins Genomics: Key Developments

List Of Figures

LIST OF FIGURES

- Figure 1 Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 2 Global Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)
- Figure 3 Global Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)
- Figure 4 Global Synthetic Biology Market Share, By Application, 2024 & 2033 (%)
- Figure 5 Global Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)
- Figure 6 Global Synthetic Biology Market Share, By Region, 2024 & 2033 (%)
- Figure 7 Global Synthetic Biology Market Y-o-Y Growth, By Product Type, 2023-2033 (%)
- Figure 8 Oligonucleotides and Synthetic DNA Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 9 Enzymes Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 10 Cloning Technologies Kits Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 11 Synthetic Cells Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 12 Xeno-Nucleic Acids Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 13 Chassis Organism Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 14 Others Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 15 Global Synthetic Biology Market Y-o-Y Growth, By Technology, 2023-2033 (%)
- Figure 16 Genome Engineering Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 17 Sequencing Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 18 Bioinformatics Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 19 Cloning Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 20 Nanotechnology Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 21 Others Technology in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)
- Figure 22 Global Synthetic Biology Market Y-o-Y Growth, By Application, 2023-2033 (%)
- Figure 23 Medical Applications Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 24 Industrial Applications Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 25 Food and Animal Health Applications Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 26 Agricultural Applications Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 27 Environmental Applications Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 28 Others Application in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 29 Global Synthetic Biology Market Y-o-Y Growth, By End-User, 2023-2033 (%)

Figure 30 Pharmaceutical & Biotechnology Companies End-User in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 31 Industrial & Chemical Companies End-User in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 32 Food & Beverage Companies End-User in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 33 Academic and Research Institutes End-User in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 34 Others End-User in Global Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 35 Global Synthetic Biology Market Y-o-Y Growth, By Region, 2023-2033 (%)

Figure 36 North America Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 37 North America Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)

Figure 38 North America Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)

Figure 39 North America Synthetic Biology Market Share, By Application, 2024 & 2033 (%)

Figure 40 North America Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)

Figure 41 North America Synthetic Biology Market Share, By Country, 2024 & 2033 (%)

Figure 42 Europe Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 43 Europe Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)

Figure 44 Europe Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)

Figure 45 Europe Synthetic Biology Market Share, By Application, 2024 & 2033 (%)

Figure 46 Europe Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)

Figure 47 Europe Synthetic Biology Market Share, By Country, 2024 & 2033 (%)

Figure 48 Asia-Pacific Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 49 Asia-Pacific Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)

Figure 50 Asia-Pacific Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)

Figure 51 Asia-Pacific Synthetic Biology Market Share, By Application, 2024 & 2033 (%)

Figure 52 Asia-Pacific Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)

Figure 53 Asia-Pacific Synthetic Biology Market Share, By Country, 2024 & 2033 (%)

Figure 54 South America Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 55 South America Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)

Figure 56 South America Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)

Figure 57 South America Synthetic Biology Market Share, By Application, 2024 & 2033 (%)

Figure 58 South America Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)

Figure 59 South America Synthetic Biology Market Share, By Country, 2024 & 2033 (%)

Figure 60 Middle East and Africa Synthetic Biology Market Value, 2022-2033 (US\$ Billion)

Figure 61 Middle East and Africa Synthetic Biology Market Share, By Product Type, 2024 & 2033 (%)

Figure 62 Middle East and Africa Synthetic Biology Market Share, By Technology, 2024 & 2033 (%)

Figure 63 Middle East and Africa Synthetic Biology Market Share, By Application, 2024 & 2033 (%)

Figure 64 Middle East and Africa Synthetic Biology Market Share, By End-User, 2024 & 2033 (%)

Figure 65 Illumina, Inc.: Financials

Figure 66 Merck KGaA: Financials

Figure 67 Thermo Fisher Scientific Inc.: Financials

Figure 68 Bova Biosciences: Financials

Figure 69 Codexis, Inc.: Financials

Figure 70 Twist Bioscience: Financials

Figure 71 Creative Biogene: Financials

Figure 72 Eurofins Genomics: Financials

I would like to order

Product name: Global Synthetic Biology Market - 2025 -2033

Product link: <https://marketpublishers.com/r/G4823070F0CEEN.html>

Price: US\$ 4,350.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G4823070F0CEEN.html>