

Global Synthetic Biology Intelligent Manufacturing Platform Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GAE17CCDB2C7EN.html>

Date: April 2026

Pages: 113

Price: US\$ 3,660.00 (Single User License)

ID: GAE17CCDB2C7EN

Abstracts

The global Synthetic Biology Intelligent Manufacturing Platform market size is predicted to grow from US\$ 4021 million in 2025 to US\$ 17854 million in 2032; it is expected to grow at a CAGR of 23.9% from 2026 to 2032.

The synthetic biology intelligent manufacturing platform refers to a comprehensive platform that uses synthetic biology technologies and tools, combined with automation, data analysis and computer design, to create and optimize biological systems and their products. Through gene editing, microbial engineering and synthetic pathway design, the platform can efficiently produce a variety of products such as drugs, chemicals, materials, food ingredients and energy, promoting innovation and sustainable development in various industries.

The synthetic biology manufacturing platform industry chain can be divided into three main segments: upstream, midstream, and downstream. The upstream segment primarily includes the supply of biological components and basic tools, such as DNA/RNA synthesis, gene editing tools (CRISPR, etc.), chassis cells, enzymes and culture media, automated experimental equipment, and reagents and consumables. Gross profit margins are relatively high, typically ranging from 40% to 70%. The midstream segment is the core of the synthetic biology manufacturing platform, encompassing biodesign (DBTL cycle), automated high-throughput experiments, data analysis and AI modeling, process scale-up, and pilot-scale services. This is a technology- and data-intensive segment, with platform companies generally achieving gross profit margins of 50% to 80%, and even higher for SaaS-based or highly standardized platforms. The downstream segment targets application industries such as pharmaceuticals, food and nutrition, agriculture, biomaterials, chemicals, and energy,

transforming platform capabilities into specific products or customized solutions. Gross profit margins in this segment vary considerably, typically ranging from 20% to 50%, depending on product attributes and scale. Overall, the synthetic biology manufacturing platform industry chain is characterized by high technological barriers and high added value, with the midstream platform segment being the core of profit and value.

The rise of synthetic biology intelligent manufacturing platforms marks a new era for biomanufacturing. By integrating gene editing, automation and data analysis technologies, these platforms have not only greatly improved the efficiency of biological system design and production, but also broadened the application range of biological products. They have shown great potential in many fields such as pharmaceuticals, agriculture, and industrial biotechnology, promoted innovation, sustainable development, and optimization of resource utilization, and provided new ideas and methods for solving global resource shortages and environmental challenges.

LPI (LP Information)' newest research report, the “Synthetic Biology Intelligent Manufacturing Platform Industry Forecast” looks at past sales and reviews total world Synthetic Biology Intelligent Manufacturing Platform sales in 2025, providing a comprehensive analysis by region and market sector of projected Synthetic Biology Intelligent Manufacturing Platform sales for 2026 through 2032. With Synthetic Biology Intelligent Manufacturing Platform sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Synthetic Biology Intelligent Manufacturing Platform industry.

This Insight Report provides a comprehensive analysis of the global Synthetic Biology Intelligent Manufacturing Platform landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Synthetic Biology Intelligent Manufacturing Platform portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Synthetic Biology Intelligent Manufacturing Platform market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Synthetic Biology Intelligent Manufacturing Platform and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast

offers a highly nuanced view of the current state and future trajectory in the global Synthetic Biology Intelligent Manufacturing Platform.

This report presents a comprehensive overview, market shares, and growth opportunities of Synthetic Biology Intelligent Manufacturing Platform market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cloud-Based

On-Premises

Segmentation by Platform Function Positioning:

Biodesign Platform

Automated Experimental Platform

Biomanufacturing and Scale-Up Platform

Segmentation by Platform Openness:

Internal Self-Use Intelligent Manufacturing Platform

Semi-Open Platform

Fully Open Platform

Segmentation by Application:

Medical Industry

Agriculture

Industrial

Energy Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Ginkgo Bioworks

Codexis

Amyris

Genomatica

Twist Bioscience

Inscripta

Synthego

Arzeda

Integrated DNA Technologies

Antheia

AI Proteins

AskBio

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Synthetic Biology Intelligent Manufacturing Platform Market Size (2021-2032)

2.1.2 Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Region (2021 VS 2025 VS 2032)

2.1.3 World Current & Future Analysis for Synthetic Biology Intelligent Manufacturing Platform by Country/Region (2021, 2025 & 2032)

2.2 Synthetic Biology Intelligent Manufacturing Platform Segment by Type

2.2.1 Cloud-Based

2.2.2 On-Premises

2.2.3 Synthetic Biology Intelligent Manufacturing Platform Market Size by Type

2.2.3.1 Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Type (2021 VS 2025 VS 2032)

2.2.3.2 Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)

2.3 Synthetic Biology Intelligent Manufacturing Platform Segment by Platform Function Positioning

2.3.1 Biodesign Platform

2.3.2 Automated Experimental Platform

2.3.3 Biomanufacturing and Scale-Up Platform

2.3.4 Synthetic Biology Intelligent Manufacturing Platform Market Size by Platform Function Positioning

2.3.4.1 Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Platform Function Positioning (2021 VS 2025 VS 2032)

- 2.3.4.2 Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Function Positioning (2021-2026)
- 2.4 Synthetic Biology Intelligent Manufacturing Platform Segment by Platform Openness
 - 2.4.1 Internal Self-Use Intelligent Manufacturing Platform
 - 2.4.2 Semi-Open Platform
 - 2.4.3 Fully Open Platform
 - 2.4.4 Synthetic Biology Intelligent Manufacturing Platform Market Size by Platform Openness
 - 2.4.4.1 Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Platform Openness (2021 VS 2025 VS 2032)
 - 2.4.4.2 Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Openness (2021-2026)
- 2.5 Synthetic Biology Intelligent Manufacturing Platform Segment by Application
 - 2.5.1 Medical Industry
 - 2.5.2 Agriculture
 - 2.5.3 Industrial
 - 2.5.4 Energy Industry
 - 2.5.5 Others
 - 2.5.6 Synthetic Biology Intelligent Manufacturing Platform Market Size by Application
 - 2.5.6.1 Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Application (2021 VS 2025 VS 2032)
 - 2.5.6.2 Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application (2021-2026)

3 SYNTHETIC BIOLOGY INTELLIGENT MANUFACTURING PLATFORM MARKET SIZE BY PLAYER

- 3.1 Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Player
 - 3.1.1 Global Synthetic Biology Intelligent Manufacturing Platform Revenue by Player (2021-2026)
 - 3.1.2 Global Synthetic Biology Intelligent Manufacturing Platform Revenue Market Share by Player (2021-2026)
- 3.2 Global Synthetic Biology Intelligent Manufacturing Platform Key Players Head office and Products Offered
- 3.3 Market Concentration Rate Analysis
 - 3.3.1 Competition Landscape Analysis
 - 3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 SYNTHETIC BIOLOGY INTELLIGENT MANUFACTURING PLATFORM BY REGION

4.1 Synthetic Biology Intelligent Manufacturing Platform Market Size by Region (2021-2026)

4.2 Global Synthetic Biology Intelligent Manufacturing Platform Annual Revenue by Country/Region (2021-2026)

4.3 Americas Synthetic Biology Intelligent Manufacturing Platform Market Size Growth (2021-2026)

4.4 APAC Synthetic Biology Intelligent Manufacturing Platform Market Size Growth (2021-2026)

4.5 Europe Synthetic Biology Intelligent Manufacturing Platform Market Size Growth (2021-2026)

4.6 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Country (2021-2026)

5.2 Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026)

5.3 Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Region (2021-2026)

6.2 APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026)

6.3 APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026)

- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Country (2021-2026)
- 7.2 Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026)
- 7.3 Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform by Region (2021-2026)
- 8.2 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL SYNTHETIC BIOLOGY INTELLIGENT MANUFACTURING PLATFORM MARKET FORECAST

10.1 Global Synthetic Biology Intelligent Manufacturing Platform Forecast by Region (2027-2032)

10.1.1 Global Synthetic Biology Intelligent Manufacturing Platform Forecast by Region (2027-2032)

10.1.2 Americas Synthetic Biology Intelligent Manufacturing Platform Forecast

10.1.3 APAC Synthetic Biology Intelligent Manufacturing Platform Forecast

10.1.4 Europe Synthetic Biology Intelligent Manufacturing Platform Forecast

10.1.5 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Forecast

10.2 Americas Synthetic Biology Intelligent Manufacturing Platform Forecast by Country (2027-2032)

10.2.1 United States Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.2.2 Canada Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.2.3 Mexico Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.2.4 Brazil Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.3 APAC Synthetic Biology Intelligent Manufacturing Platform Forecast by Region (2027-2032)

10.3.1 China Synthetic Biology Intelligent Manufacturing Platform Market Forecast

10.3.2 Japan Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.3.3 Korea Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.3.4 Southeast Asia Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.3.5 India Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.3.6 Australia Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.4 Europe Synthetic Biology Intelligent Manufacturing Platform Forecast by Country (2027-2032)

10.4.1 Germany Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.4.2 France Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.4.3 UK Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.4.4 Italy Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.4.5 Russia Market Synthetic Biology Intelligent Manufacturing Platform Forecast

10.5 Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Forecast by Region (2027-2032)

- 10.5.1 Egypt Market Synthetic Biology Intelligent Manufacturing Platform Forecast
- 10.5.2 South Africa Market Synthetic Biology Intelligent Manufacturing Platform Forecast
- 10.5.3 Israel Market Synthetic Biology Intelligent Manufacturing Platform Forecast
- 10.5.4 Turkey Market Synthetic Biology Intelligent Manufacturing Platform Forecast
- 10.6 Global Synthetic Biology Intelligent Manufacturing Platform Forecast by Type (2027-2032)
- 10.7 Global Synthetic Biology Intelligent Manufacturing Platform Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Synthetic Biology Intelligent Manufacturing Platform Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Ginkgo Bioworks
 - 11.1.1 Ginkgo Bioworks Company Information
 - 11.1.2 Ginkgo Bioworks Synthetic Biology Intelligent Manufacturing Platform Product Offered
 - 11.1.3 Ginkgo Bioworks Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)
 - 11.1.4 Ginkgo Bioworks Main Business Overview
 - 11.1.5 Ginkgo Bioworks Latest Developments
- 11.2 Codexis
 - 11.2.1 Codexis Company Information
 - 11.2.2 Codexis Synthetic Biology Intelligent Manufacturing Platform Product Offered
 - 11.2.3 Codexis Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 Codexis Main Business Overview
 - 11.2.5 Codexis Latest Developments
- 11.3 Amyris
 - 11.3.1 Amyris Company Information
 - 11.3.2 Amyris Synthetic Biology Intelligent Manufacturing Platform Product Offered
 - 11.3.3 Amyris Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Amyris Main Business Overview
 - 11.3.5 Amyris Latest Developments
- 11.4 Genomatica
 - 11.4.1 Genomatica Company Information
 - 11.4.2 Genomatica Synthetic Biology Intelligent Manufacturing Platform Product

Offered

11.4.3 Genomatica Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.4.4 Genomatica Main Business Overview

11.4.5 Genomatica Latest Developments

11.5 Twist Bioscience

11.5.1 Twist Bioscience Company Information

11.5.2 Twist Bioscience Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.5.3 Twist Bioscience Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.5.4 Twist Bioscience Main Business Overview

11.5.5 Twist Bioscience Latest Developments

11.6 Inscripta

11.6.1 Inscripta Company Information

11.6.2 Inscripta Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.6.3 Inscripta Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.6.4 Inscripta Main Business Overview

11.6.5 Inscripta Latest Developments

11.7 Synthego

11.7.1 Synthego Company Information

11.7.2 Synthego Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.7.3 Synthego Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 Synthego Main Business Overview

11.7.5 Synthego Latest Developments

11.8 Arzeda

11.8.1 Arzeda Company Information

11.8.2 Arzeda Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.8.3 Arzeda Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 Arzeda Main Business Overview

11.8.5 Arzeda Latest Developments

11.9 Integrated DNA Technologies

11.9.1 Integrated DNA Technologies Company Information

11.9.2 Integrated DNA Technologies Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.9.3 Integrated DNA Technologies Synthetic Biology Intelligent Manufacturing

Platform Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 Integrated DNA Technologies Main Business Overview

11.9.5 Integrated DNA Technologies Latest Developments

11.10 Antheia

11.10.1 Antheia Company Information

11.10.2 Antheia Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.10.3 Antheia Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 Antheia Main Business Overview

11.10.5 Antheia Latest Developments

11.11 AI Proteins

11.11.1 AI Proteins Company Information

11.11.2 AI Proteins Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.11.3 AI Proteins Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.11.4 AI Proteins Main Business Overview

11.11.5 AI Proteins Latest Developments

11.12 AskBio

11.12.1 AskBio Company Information

11.12.2 AskBio Synthetic Biology Intelligent Manufacturing Platform Product Offered

11.12.3 AskBio Synthetic Biology Intelligent Manufacturing Platform Revenue, Gross Margin and Market Share (2021-2026)

11.12.4 AskBio Main Business Overview

11.12.5 AskBio Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Synthetic Biology Intelligent Manufacturing Platform Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Cloud-Based
- Table 4. Major Players of On-Premises
- Table 5. Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)
- Table 6. Global Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026) & (\$ millions)
- Table 7. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)
- Table 8. Major Players of Biodesign Platform
- Table 9. Major Players of Automated Experimental Platform
- Table 10. Major Players of Biomanufacturing and Scale-Up Platform
- Table 11. Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Platform Function Positioning (2021 VS 2025 VS 2032) & (\$ millions)
- Table 12. Global Synthetic Biology Intelligent Manufacturing Platform Market Size by Platform Function Positioning (2021-2026) & (\$ millions)
- Table 13. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Function Positioning (2021-2026)
- Table 14. Major Players of Internal Self-Use Intelligent Manufacturing Platform
- Table 15. Major Players of Semi-Open Platform
- Table 16. Major Players of Fully Open Platform
- Table 17. Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Platform Openness (2021 VS 2025 VS 2032) & (\$ millions)
- Table 18. Global Synthetic Biology Intelligent Manufacturing Platform Market Size by Platform Openness (2021-2026) & (\$ millions)
- Table 19. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Openness (2021-2026)
- Table 20. Synthetic Biology Intelligent Manufacturing Platform Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)
- Table 21. Global Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026) & (\$ millions)
- Table 22. Global Synthetic Biology Intelligent Manufacturing Platform Market Size

Market Share by Application (2021-2026)

Table 23. Global Synthetic Biology Intelligent Manufacturing Platform Revenue by Player (2021-2026) & (\$ millions)

Table 24. Global Synthetic Biology Intelligent Manufacturing Platform Revenue Market Share by Player (2021-2026)

Table 25. Synthetic Biology Intelligent Manufacturing Platform Key Players Head office and Products Offered

Table 26. Synthetic Biology Intelligent Manufacturing Platform Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 27. New Products and Potential Entrants

Table 28. Mergers & Acquisitions, Expansion

Table 29. Global Synthetic Biology Intelligent Manufacturing Platform Market Size by Region (2021-2026) & (\$ millions)

Table 30. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Region (2021-2026)

Table 31. Global Synthetic Biology Intelligent Manufacturing Platform Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Synthetic Biology Intelligent Manufacturing Platform Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Country (2021-2026) & (\$ millions)

Table 34. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Country (2021-2026)

Table 35. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026) & (\$ millions)

Table 36. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)

Table 37. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026) & (\$ millions)

Table 38. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application (2021-2026)

Table 39. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Region (2021-2026) & (\$ millions)

Table 40. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Region (2021-2026)

Table 41. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026) & (\$ millions)

Table 42. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026) & (\$ millions)

Table 43. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Country (2021-2026) & (\$ millions)

Table 44. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Country (2021-2026)

Table 45. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026) & (\$ millions)

Table 46. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026) & (\$ millions)

Table 47. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size by Region (2021-2026) & (\$ millions)

Table 48. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size by Type (2021-2026) & (\$ millions)

Table 49. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size by Application (2021-2026) & (\$ millions)

Table 50. Key Market Drivers & Growth Opportunities of Synthetic Biology Intelligent Manufacturing Platform

Table 51. Key Market Challenges & Risks of Synthetic Biology Intelligent Manufacturing Platform

Table 52. Key Industry Trends of Synthetic Biology Intelligent Manufacturing Platform

Table 53. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 54. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share Forecast by Region (2027-2032)

Table 55. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 56. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 57. Ginkgo Bioworks Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 58. Ginkgo Bioworks Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 59. Ginkgo Bioworks Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 60. Ginkgo Bioworks Main Business

Table 61. Ginkgo Bioworks Latest Developments

Table 62. Codexis Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 63. Codexis Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 64. Codexis Synthetic Biology Intelligent Manufacturing Platform Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 65. Codexis Main Business

Table 66. Codexis Latest Developments

Table 67. Amyris Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 68. Amyris Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 69. Amyris Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Amyris Main Business

Table 71. Amyris Latest Developments

Table 72. Genomatica Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 73. Genomatica Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 74. Genomatica Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. Genomatica Main Business

Table 76. Genomatica Latest Developments

Table 77. Twist Bioscience Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 78. Twist Bioscience Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 79. Twist Bioscience Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. Twist Bioscience Main Business

Table 81. Twist Bioscience Latest Developments

Table 82. Inscripta Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 83. Inscripta Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 84. Inscripta Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Inscripta Main Business

Table 86. Inscripta Latest Developments

Table 87. Synthego Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 88. Synthego Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 89. Synthego Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. Synthego Main Business

Table 91. Synthego Latest Developments

Table 92. Arzeda Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 93. Arzeda Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 94. Arzeda Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. Arzeda Main Business

Table 96. Arzeda Latest Developments

Table 97. Integrated DNA Technologies Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 98. Integrated DNA Technologies Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 99. Integrated DNA Technologies Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Integrated DNA Technologies Main Business

Table 101. Integrated DNA Technologies Latest Developments

Table 102. Antheia Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 103. Antheia Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 104. Antheia Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. Antheia Main Business

Table 106. Antheia Latest Developments

Table 107. AI Proteins Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 108. AI Proteins Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 109. AI Proteins Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. AI Proteins Main Business

Table 111. AI Proteins Latest Developments

Table 112. AskBio Details, Company Type, Synthetic Biology Intelligent Manufacturing Platform Area Served and Its Competitors

Table 113. AskBio Synthetic Biology Intelligent Manufacturing Platform Product Offered

Table 114. AskBio Synthetic Biology Intelligent Manufacturing Platform Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. AskBio Main Business

Table 116. AskBio Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Synthetic Biology Intelligent Manufacturing Platform Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Synthetic Biology Intelligent Manufacturing Platform Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Synthetic Biology Intelligent Manufacturing Platform Sales Market Share by Country/Region (2025)

Figure 8. Synthetic Biology Intelligent Manufacturing Platform Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type in 2025

Figure 10. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Function Positioning in 2025

Figure 11. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Platform Openness in 2025

Figure 12. Synthetic Biology Intelligent Manufacturing Platform in Medical Industry

Figure 13. Global Synthetic Biology Intelligent Manufacturing Platform Market: Medical Industry (2021-2026) & (\$ millions)

Figure 14. Synthetic Biology Intelligent Manufacturing Platform in Agriculture

Figure 15. Global Synthetic Biology Intelligent Manufacturing Platform Market: Agriculture (2021-2026) & (\$ millions)

Figure 16. Synthetic Biology Intelligent Manufacturing Platform in Industrial

Figure 17. Global Synthetic Biology Intelligent Manufacturing Platform Market: Industrial (2021-2026) & (\$ millions)

Figure 18. Synthetic Biology Intelligent Manufacturing Platform in Energy Industry

Figure 19. Global Synthetic Biology Intelligent Manufacturing Platform Market: Energy Industry (2021-2026) & (\$ millions)

Figure 20. Synthetic Biology Intelligent Manufacturing Platform in Others

Figure 21. Global Synthetic Biology Intelligent Manufacturing Platform Market: Others (2021-2026) & (\$ millions)

Figure 22. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application in 2025

Figure 23. Global Synthetic Biology Intelligent Manufacturing Platform Revenue Market Share by Player in 2025

Figure 24. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Region (2021-2026)

Figure 25. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size 2021-2026 (\$ millions)

Figure 26. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size 2021-2026 (\$ millions)

Figure 27. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size 2021-2026 (\$ millions)

Figure 28. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size 2021-2026 (\$ millions)

Figure 29. Americas Synthetic Biology Intelligent Manufacturing Platform Value Market Share by Country in 2025

Figure 30. United States Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 31. Canada Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 32. Mexico Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 33. Brazil Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 34. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Region in 2025

Figure 35. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)

Figure 36. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application (2021-2026)

Figure 37. China Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 38. Japan Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 39. South Korea Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 40. Southeast Asia Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 41. India Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 42. Australia Synthetic Biology Intelligent Manufacturing Platform Market Size

Growth 2021-2026 (\$ millions)

Figure 43. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Country in 2025

Figure 44. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)

Figure 45. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application (2021-2026)

Figure 46. Germany Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 47. France Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 48. UK Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 49. Italy Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 50. Russia Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Region (2021-2026)

Figure 52. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Type (2021-2026)

Figure 53. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share by Application (2021-2026)

Figure 54. Egypt Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 55. South Africa Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 56. Israel Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 57. Turkey Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 58. GCC Countries Synthetic Biology Intelligent Manufacturing Platform Market Size Growth 2021-2026 (\$ millions)

Figure 59. Americas Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 60. APAC Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 61. Europe Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 62. Middle East & Africa Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 63. United States Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 64. Canada Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 65. Mexico Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 66. Brazil Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 67. China Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 68. Japan Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 69. Korea Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 70. Southeast Asia Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 71. India Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 72. Australia Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 73. Germany Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 74. France Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 75. UK Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 76. Italy Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 77. Russia Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 78. Egypt Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 79. South Africa Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 80. Israel Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

Figure 81. Turkey Synthetic Biology Intelligent Manufacturing Platform Market Size

2027-2032 (\$ millions)

Figure 82. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share Forecast by Type (2027-2032)

Figure 83. Global Synthetic Biology Intelligent Manufacturing Platform Market Size Market Share Forecast by Application (2027-2032)

Figure 84. GCC Countries Synthetic Biology Intelligent Manufacturing Platform Market Size 2027-2032 (\$ millions)

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