

Gene Synthesis (Research-use) Market Size, Share & Trends Analysis Report By Method (Solid-phase Synthesis, Chip-based Synthesis), By Service (Antibody DNA Synthesis), By Application, By End Use, By Research Phase, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

The global gene synthesis (research-use) market size was estimated at USD 2.09 billion in 2024 and is projected to reach USD 8.39 billion by 2033, growing at a CAGR of 16.8% from 2025 to 2033. The surging investment by players in the synthetic biology field and supportive government laws & rules are expected to propel market growth.

Moreover, technological advances in gene synthesis procedures & techniques are also boosting the service demand over the forecast period. For instance, in April 2022, GenScript, a provider of life science research tools and services, announced the launch of the most advanced semiconductor chip for DNA synthesis in the field. This chip provides the highest throughput.

Technological Advancements Driving Faster and Cost-Efficient Gene Synthesis

Advancements in synthetic biology technologies are significantly transforming the gene synthesis (research-use) landscape, enabling faster, more accurate, and cost-efficient DNA synthesis processes. Continuous improvements in automation, error correction, and next-generation sequencing (NGS) integration have enhanced the precision and scalability of synthetic gene construction. These developments have substantially reduced turnaround times, allowing researchers to design and synthesize complex gene sequences within shorter timeframes. Moreover, the integration of AI-driven design tools

and cloud-based bioinformatics platforms has streamlined workflow efficiency, further accelerated research timelines and reducing costs associated with manual interventions.

The adoption of high-throughput synthesis platforms and enzymatic DNA assembly methods has further strengthened production capabilities, enabling large-scale synthesis of genes for various research applications, including genomics, synthetic biology, and protein engineering. These technological innovations have not only improved synthesis accuracy but have also minimized contamination risks and material wastage. As a result, research institutions and biotechnology companies are increasingly leveraging these advancements to support pre-clinical studies, target validation, and the development of advanced therapeutic candidates such as mRNA vaccines and gene therapies.

Furthermore, ongoing R&D efforts aimed at enhancing the efficiency and affordability of gene synthesis technologies are expected to drive market expansion over the forecast period. The growing collaboration between academic institutions, private companies, and government research agencies is fostering the development of next-generation synthesis platforms capable of producing longer DNA fragments with higher fidelity. As the demand for customized genetic constructs continues to rise across applications in synthetic biology, diagnostics, and precision medicine, advancements in synthetic biology technologies are likely to remain a key driver supporting sustainable growth in the global gene synthesis (research-use) market.

Global Gene Synthesis (Research-Use) Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, grand view research has segmented the global gene synthesis (research-use) market report based on method, service, application, research phase, end use, and region.

Method Outlook (Revenue, USD Million, 2021 - 2033)

Solid-phase Synthesis

Chip-based Synthesis

PCR-based Enzyme Synthesis

Service Outlook (Revenue, USD Million, 2021 - 2033)

Antibody DNA Synthesis

Viral DNA Synthesis

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Gene & Cell Therapy Development

Vaccine Development

Others

Research Phase Outlook (Revenue, USD Million, 2021 - 2033)

Pre-clinical

Clinical

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Biotechnology and pharmaceutical companies

Academic and government research institutes

Contract research organizations

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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