

Global Gene Synthesis Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gene Synthesis market size is expected to reach \$ 2204 million by 2032, rising at a market growth of 16.0% CAGR during the forecast period (2026-2032).

Gene synthesis refers to chemically synthesizing a strand of DNA base-by-base. Unlike DNA replication that occurs in cells or by Polymerase Chain Reaction (PCR), gene synthesis does not require a template strand. Rather, gene synthesis involves the step-wise addition of nucleotides to a single-stranded molecule, which then serves as a template for creation of a complementary strand. Gene synthesis is the fundamental technology upon which the field of synthetic biology has been built.

The gene synthesis market is experiencing robust growth, propelled by advancements in synthetic biology, personalized medicine, and biopharmaceutical development. Technological innovations such as CRISPR-based gene editing, automation, and high-throughput sequencing have streamlined the synthesis process, making it more efficient and cost-effective. These developments have expanded the applications of gene synthesis across various sectors, including healthcare, agriculture, and industrial biotechnology. In healthcare, for instance, gene synthesis is instrumental in developing targeted therapies and vaccines, while in agriculture, it aids in creating genetically modified crops with improved traits. The integration of artificial intelligence and machine learning further enhances the design and optimization of synthetic genes, accelerating research and development efforts.

Regionally, North America holds a significant share of the gene synthesis market, driven by substantial investments in research and development, a strong presence of key industry players, and supportive government policies. Asia-Pacific is emerging as a rapidly growing market, with countries like China and India investing heavily in

biotechnology and synthetic biology initiatives. Despite the promising growth, the market faces challenges such as ethical concerns, regulatory hurdles, and the high cost of gene synthesis technologies. Addressing these issues through transparent policies, public engagement, and continued technological advancements will be crucial for the sustained expansion of the gene synthesis market.

This report studies the global Gene Synthesis demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gene Synthesis, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gene Synthesis that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gene Synthesis total market, 2021-2032, (USD Million)

Global Gene Synthesis total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Gene Synthesis total market, key domestic companies, and share, (USD Million)

Global Gene Synthesis revenue by player, revenue and market share 2021-2026, (USD Million)

Global Gene Synthesis total market by Type, CAGR, 2021-2032, (USD Million)

Global Gene Synthesis total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Gene Synthesis market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Genescript, Thermo Scientific, IDT, Eurofins Genomics, DNA 2.0 (ATUM), BBI, Azenta Life Sciences, SBS Genetech, Bio Basic, Twist Bioscience, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Gene Synthesis market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gene Synthesis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gene Synthesis Market, Segmentation by Type:

Below 1000 bp

1001-3000 bp

3001-5000 bp

Above 5000 bp

Global Gene Synthesis Market, Segmentation by Application:

Commercial

Academic Research

Companies Profiled:

Genescript

Thermo Scientific

IDT

Eurofins Genomics

DNA 2.0 (ATUM)

BBI

Azenta Life Sciences

SBS Genetech

Bio Basic

Twist Bioscience

OriGene

Key Questions Answered

1. How big is the global Gene Synthesis market?
2. What is the demand of the global Gene Synthesis market?
3. What is the year over year growth of the global Gene Synthesis market?

4. What is the total value of the global Gene Synthesis market?
5. Who are the Major Players in the global Gene Synthesis market?
6. What are the growth factors driving the market demand?

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