

Global Custom Gene Synthesis Service Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Custom Gene Synthesis Service market size was valued at US\$ 688 million in 2024 and is forecast to a readjusted size of USD 1921 million by 2031 with a CAGR of 16.0% during review period.

Custom gene synthesis services involve the artificial synthesis of DNA or RNA sequences based on specific customer requirements. These services are commonly used in various fields, including academic research, pharmaceuticals, biotechnology, and agriculture. 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 Market Driver is the primary propelling the gene synthesis market forward is the rapid advancement of synthetic biology. This interdisciplinary field leverages gene synthesis to engineer biological systems for diverse applications, including bio manufacturing, healthcare, and agriculture. With gene synthesis enabling precise design and construction of custom DNA sequences, synthetic biology stands at the forefront of innovation, driving demand for gene synthesis services and technologies.

Despite its potential for growth, the gene synthesis market faces significant challenges related to quality control and reliability. Ensuring the accuracy and fidelity of synthesized DNA sequences is paramount for research reproducibility and commercial applications.

Quality control issues such as sequence errors, synthesis errors, or contamination can undermine confidence in gene synthesis services and impede market expansion. Thus, addressing quality assurance challenges is crucial for sustaining the growth trajectory of the gene synthesis market.

GenScript is the largest supplier of Gene Synthesis, with a revenue market share nearly 26.85% in 2023. That is to say, GenScript is the most popular Gene Synthesis in global, and with most of the Gene Synthesis market share in global. Again, top 5 players dominated 72.41% global gene synthesis market share of the whole market, with most of which were USA companies.

Despite GenScript was ranked #1 in global gene synthesis market, other sophisticated companies in the US and Europe may enter into this sector through M&A on smaller competitors to GenScript or buying related business from other market. This will result in reshuffling of the biomedicine research services' market, and that GenScript may loss its market share.

Asia-Pacific is the largest consumption market, with a consumption market share nearly 36.39% in 2023. Followed by Asia-Pacific, North America is the second two largest consumption place with the similar consumption market share of 34.45%.

This report is a detailed and comprehensive analysis for global Custom Gene Synthesis Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Custom Gene Synthesis Service market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Custom Gene Synthesis Service market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Custom Gene Synthesis Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Custom Gene Synthesis Service market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Custom Gene Synthesis Service

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Custom Gene Synthesis Service 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.

Market segmentation

Custom Gene Synthesis Service market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 1000 bp

1001 to 3000 bp

3001 to 5000 bp

Above 5000 bp

Market segment by Application

Commercial

Academic Research

Market segment by players, this report covers

Genescript

Thermo Scientific

IDT

Eurofins Genomics

DNA 2.0 (ATUM)

BBI

Azenta Life Sciences

SBS Genetech

Bio Basic

Twist Bioscience

OriGene

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Custom Gene Synthesis Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Custom Gene Synthesis Service, with revenue, gross margin, and global market share of Custom Gene Synthesis Service from 2020 to 2025.

Chapter 3, the Custom Gene Synthesis Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Custom Gene Synthesis Service market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Custom Gene Synthesis Service.

Chapter 13, to describe Custom Gene Synthesis Service research findings and conclusion.

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