

# Global Gene Synthesis Market - Forecasts from 2019 to 2024

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## Abstracts

The global gene synthesis market was valued at US\$1,270.605 million in 2018 and is anticipated to grow at a CAGR of 22.03% to reach a market size of US\$4,195.754 million by 2024. Gene synthesis refers to the chemical, base-by-base in vitro synthesis of double-stranded DNA sequence that represents one or more genes. The technology has become a significant tool in the areas of vaccine development, gene therapy, molecular engineering, and in development of recombinant DNA. Gene synthesis has also introduced the possibility of developing genes containing modified nucleotides or even novel base pairs that could allow for the expansion of the genetic code. The growth in the market may be attributed to the increasing investment in research and development in the field of genomics and next-generation sequencing. Increasing interest and funding in the field of genomics will also positively impact the market. However, the high cost and complexity of the gene synthesis techniques might hamper the growth of the market in the forecast period. Additionally, the dearth of skilled professionals might also restrain the market for gene synthesis during the given time frame.

The Global Gene Synthesis Market – Forecasts from 2019 to 2024 is an exhaustive study which aims to present the key market trends through various chapters focusing on different aspects of the market. The study provides a detailed market overview through the market dynamics sections which detail key market, drivers, restraints, and opportunities in the current market. The report analyzes key opportunity regional markets, and the current technology penetration through lifecycle analysis. The report also analyzes the market through comprehensive market segmentation by type, by application, by end-user and by geography.

The global gene synthesis market has been segmented based on type, application, end-

user, and geography. On the basis of type, the market has been segmented into gene library synthesis and custom gene synthesis. On the basis of application, the market is categorized into synthetic biology, genetic engineering, vaccine design, therapeutic antibodies, and others. On the basis of end-user, the market is categorized into pharmaceutical and biopharmaceutical companies, contract research organizations, and research institutes.

Regional analysis has been provided with detailed analysis and forecast for the period 2018 to 2024. The global market has been broken down into North America, South America, Europe, Middle East and Africa (MEA), and the Asia Pacific regions. The report also analyzes 16 major countries across these regions with thorough analysis and forecast along with prevailing market trends and opportunities which each of these countries present for the manufacturers.

Major players in the global gene synthesis market have been covered along with their relative competitive position and strategies. The report also mentions recent deals and investments of different market players over the last year. The company profiles section details the business overview, financial performance for the past three years, key products and services being offered along with the recent developments of these important players in the global gene synthesis market.

Segmentation:

#### By Type

Gene Library Synthesis

Custom Gene Synthesis

#### By Application

Synthetic Biology

Genetic Engineering

Vaccine Design

Therapeutic Antibodies

Others

By End-User

Pharmaceutical and Biopharmaceutical Companies

Contract Research Organizations

Research Institutes

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

## Middle East and Africa

Saudi Arabia

Israel

UAE

Others

## Asia Pacific

China

Japan

South Korea

India

Others

'The report will be delivered in 3 working days.'

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