

Global DNA Synthesis Market Size study & Forecast, by Service Type (Oligonucleotide Synthesis, Gene Synthesis), by Application (Research and Development, Diagnostics, Therapeutics), by End Use (Biopharmaceutical Companies, Academic and Research Institutes, Contract Research Organizations), and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G0B131B16108EN.html>

Date: July 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G0B131B16108EN

Abstracts

Global DNA Synthesis Market is valued at approximately USD 2.89 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 19.63 % over the forecast period 2023-2030. The DNA Synthesis Market refers to the global market segment encompassing the production and commercialization of synthetic DNA molecules through chemical synthesis methods, enabling researchers and biotechnology companies to create custom-designed DNA sequences for various applications in life sciences, genetic engineering, and synthetic biology. By synthesizing DNA, scientists can create unique genetic sequences for a wide range of purposes, advancing and understanding about genetics and enabling innovative solutions in various fields. The DNA Synthesis Market is being driven by factors such as rapid technological advancements in the field of synthetic biology and rising investments in research & development (R&D) activities.

The Synthetic biology, a field that combines engineering principles with biology, heavily relies on DNA synthesis to design and construct novel biological systems. According to a study performed by the University of New York, in June 2022, successfully created an artificial Hox gene that is intended to plan and re-direct the cells for the development of tissues, organelle, or organs using novel synthetic nucleotide technology and genomic engineering expertise in stem cells. Along with that emerging advancements in genetic

engineering have opened up new ventures for the appropriate engineering of biological systems. DNA writers are essentially genetically encoded devices used for targeted and recurring alterations of nucleotides in living cells. Thus, increasing technological advancement in the field and increasing R&D activities in the field fuel the growth of the market. In addition, advancements in gene editing and genetic engineering and growing demand for synthetic biology create lucrative opportunities for the market. However, the Stringent Government Regulations & Guidelines hinder market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global DNA Synthesis Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the numerous research initiatives in the region for emerging advancements in biotechnology including the rapid development of therapeutics and vaccines. Asia Pacific is considered the fastest growing region during the forecasted period due to increase in research activities for biological research and drug discovery is boosting the demand for a consistent supply of synthetic nucleotides for utility in research exercises.

Major market player included in this report are:

Thermo Fisher Scientific, Inc.

Twist Bioscience

Bioneer Corporation

Eton Bioscience Inc.

LGC Biosearch Technologies

IBA Lifesciences

Eurofins Scientific

Integrated DNA Technologies, Inc.

Quintara Biosciences

GenScript Biotech Corporation

Recent Developments in the Market:

In January 2020, Evonetix, a company specializing in synthetic biology and gene synthesis, established a collaboration with Imec, a renowned research and innovation hub. The aim of this collaboration is to enhance the production of Evonetix's proprietary micro-electromechanical systems (MEMS)-based silicon chips. These chips play a crucial role in Evonetix's platform, which enables the synthesis of DNA at scale. By partnering with Imec, Evonetix aims to leverage its expertise in semiconductor technology to optimize the production process of these silicon chips. This collaboration is expected to facilitate the commercial-scale platform for Evonetix, enabling robust

growth and advancement in the market for synthetic biology and gene synthesis.

Global DNA Synthesis Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Service Type, Application, End Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Service Type:

Oligonucleotide Synthesis

Gene Synthesis

By Application:

Research and Development

Diagnostics

Therapeutics

By End Use:

Biopharmaceutical Companies

Academic and Research Institutes

Contract Research Organizations

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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