

Gene Synthesis Market : Projected to reach \$5,979 million by 2031 | 18.4% CAGR

The global gene synthesis market size was valued at \$1,110 million in 2021, and is projected to reach \$5,979 million by 2031

PORTLAND, OR, UNITED STATES, July 5, 2023 /EINPresswire.com/ -- The [Gene synthesis market](#) refers to the industry that provides custom-made genes for research, diagnostic, and therapeutic applications. Gene synthesis involves the artificial assembly of nucleotides to create a synthetic DNA sequence that matches a natural gene or a novel gene designed by researchers.



The global gene synthesis market generated \$1.11 billion in 2021, and is estimated to reach \$5.9 billion by 2031, witnessing a CAGR of 18.4% from 2022 to 2031. The increasing demand for gene synthesis in drug discovery and development, genetic engineering, and gene therapy is driving the growth of this market.

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The market is highly competitive, with several key players dominating the industry, including Brooks Automation, Inc., Boster Biological Technology, Twist Bioscience, Codex DNA, Biomatik, Promab Biotechnologies, Inc., Thermo Fisher Scientific, Inc., Genscript Technology, Integrated DNA Technologies, Inc., and OriGene Technologies, Inc. These companies offer a range of gene synthesis services, from standard gene synthesis to complex gene editing and gene assembly.

The gene synthesis market is expected to continue to grow in the coming years, driven by the increasing demand for synthetic genes in various applications, including drug development, agriculture, and biotechnology. Advances in gene editing technologies, such as CRISPR-Cas9, are also expected to drive the growth of the gene synthesis market, as they require high-quality synthetic genes for their applications.

COVID-19 的爆发对基因合成市场产生了适度的影响。在疫情的初期阶段，供应链和物流运营受到严重中断，这阻碍了市场增长。

然而，随着全球对 COVID-19 疫苗的需求上升，科学家们和研究人员也增加了使用基因合成方法来分析病毒基因组在人类 DNA 上的生理作用。

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本报告提供了全球基因合成市场的详细分段，基于方法、最终用户和地区。报告提供了每个分段和子分段的分析，辅以表格和图表。此分析有助于市场参与者、投资者和新进入者在确定未来几年可开发的子分段以实现增长。

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在 2021 年，固相合成段占据了最大的市场份额，接近全球基因合成市场的一半。PCR 基于酶的合成段，另一方面，预计将在预测期内见证最快的 CAGR 为 18.7%。报告还讨论了基于芯片的 DNA 合成段。

就最终用户而言，学术和研究机构段占据了最大的市场份额，在 2021 年接近全球基因合成市场的五分之二，并将在 2031 年保持其领先地位。该段预计将在 2031 年前实现最快的 CAGR 为 18.7%。报告还讨论了生物技术、制药公司、诊断实验室和其他分段。

北美市场是 2021 年最大的市场，占据了全球基因合成市场的五分之二，并将在预测期内保持其主导地位。然而，亚太地区预计将在 2022 年至 2031 年间实现最高的 CAGR 为 19.0%。研究分析的其他地区包括北美和 LAMEA。

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在研究中分析的全球基因合成市场的主要参与者包括 Brooks Automation, Inc., Boster Biological Technology, Twist Bioscience, Codex DNA, Biomatik, Promab Biotechnologies, Inc., Thermo Fisher Scientific, Inc., Genscript Technology, Integrated DNA Technologies, Inc., 和 OriGene Technologies, Inc.

本报告分析了全球基因合成市场的关键参与者。这些参与者有

adopted various strategies such as expansion, new product launches, partnerships, and others to increase their market penetration and strengthen their position in the industry. The report is helpful in determining the business performance, operating segments, product portfolio, and developments by every market player.

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The solid phase synthesis sub-segment emerged as the global leader in 2021 and PCR based enzyme synthesis sub-segment is anticipated to be the fastest growing sub-segment during the forecast period.

The academic and research institutes sub-segment emerged as the global leader in 2021 and it is predicted to show the fastest growth in the upcoming years.

The North America market registered the highest market share in 2021 and Asia-Pacific is projected to maintain the position during the forecast period.

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Cell and gene supply chain services market Share: <https://www.alliedmarketresearch.com/cell-and-gene-supply-chain-services-market-A08188>

Rare Disease Genetic Testing Market Size: <https://www.alliedmarketresearch.com/rare-disease-genetic-testing-market-A10305>

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