

Custom Gene Synthesis Service Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Below 1000 bp, 1001 to 3000 bp, 3001 to 5000 bp, above 5000 bp), By Application (Commercial, Academic Research) By Region and Competition

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Abstracts

Global Custom Gene Synthesis Service Market has valued at USD 1.24 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.23% through 2028. The Global Custom Gene Synthesis Service Market has emerged as a dynamic and rapidly evolving sector within the life sciences and biotechnology industries. Custom gene synthesis services involve the artificial creation of DNA sequences, allowing researchers and biotech companies to design and obtain custom-made genetic material for a wide range of applications. This market has gained significant traction in recent years due to the expanding need for synthetic DNA constructs in fields such as gene therapy, synthetic biology, vaccine development, and genetic engineering.

One of the primary drivers of the custom gene synthesis service market is the increasing demand for personalized medicine and targeted therapies. Custom-designed DNA sequences are essential for the development of gene therapies that can treat genetic disorders and various diseases at the molecular level. Moreover, the rise of synthetic biology has opened up new avenues for designing and engineering biological systems, creating a robust demand for synthetic DNA.

Technological advancements, particularly in gene synthesis techniques like solid-phase synthesis, have improved the accuracy and efficiency of synthesizing DNA sequences,

further boosting the market. Additionally, falling costs associated with gene synthesis and a growing number of companies offering these services have made custom gene synthesis more accessible to researchers and organizations of all sizes.

Key Market Drivers

Rising Demand for Personalized Medicine

The rising demand for personalized medicine is a significant driver fueling the growth of the global custom gene synthesis service market. Personalized medicine represents a paradigm shift in healthcare, aiming to tailor treatments to the unique genetic makeup of individual patients. This innovative approach relies heavily on the precise design and creation of custom DNA sequences, which are at the core of gene therapy and targeted therapeutics.

Custom gene synthesis services enable the development of personalized treatments by providing the necessary genetic material for these advanced therapies. In gene therapy, custom-designed DNA sequences are used to correct or replace faulty genes responsible for genetic disorders and diseases. This level of customization ensures that treatments are highly specific and effective, minimizing side effects and optimizing patient outcomes.

Furthermore, the advent of CRISPR-Cas9 gene editing technology has heightened the demand for custom gene synthesis. CRISPR-Cas9 relies on precisely engineered DNA sequences to target and modify specific genes with remarkable accuracy. As researchers explore its potential in treating a wide range of diseases, the need for custom synthetic DNA constructs becomes paramount.

The implications of personalized medicine extend beyond genetic disorders. Custom gene synthesis services play a crucial role in developing treatments for cancer, autoimmune diseases, and rare conditions. These therapies often require the creation of custom DNA constructs to target the unique genetic markers of individual patients, increasing the effectiveness of treatment regimens.

As the healthcare industry increasingly embraces the concept of personalized medicine, the demand for custom gene synthesis services is expected to continue its upward trajectory. This trend is not only transforming the way diseases are treated but also driving innovation in the field of biotechnology.

Synthetic Biology Advancements

The global custom gene synthesis service market is experiencing a remarkable boost from the rapid advancements in synthetic biology. Synthetic biology, an interdisciplinary field that combines biology, engineering, and computer science, focuses on designing and engineering biological systems for various applications. At the heart of these innovations lies the need for precise and customized DNA sequences, which is where custom gene synthesis services come into play.

Advancements in synthetic biology have expanded the horizons of what can be achieved through genetic engineering. Researchers and biotech companies are now harnessing the power of custom-designed DNA sequences to create synthetic organisms, engineer metabolic pathways, and develop novel bioproducts. These applications require the ability to precisely construct DNA constructs, which has become a driving force behind the growth of the custom gene synthesis service market.

One of the key areas where synthetic biology and custom gene synthesis intersect is in the production of biofuels and biomaterials. By designing DNA sequences that encode enzymes and metabolic pathways optimized for efficient biofuel production or the synthesis of biodegradable materials, the potential for sustainable and eco-friendly solutions is expanding. This not only addresses environmental concerns but also fuels the demand for custom gene synthesis services as a vital component of these groundbreaking projects.

Additionally, the pharmaceutical industry is increasingly turning to synthetic biology to streamline drug development. Custom gene synthesis services enable the rapid generation of genetic constructs for producing therapeutic proteins, antibodies, and vaccines. This accelerates the research and development process, reducing time-to-market for new drugs and treatments.

Furthermore, as synthetic biology tools become more sophisticated and accessible, academic and research institutions are driving demand for custom gene synthesis services. Researchers in diverse fields, from microbiology to biochemistry, rely on synthetic DNA constructs to study gene function, create disease models, and advance our understanding of complex biological systems.

Technological Innovations

Technological innovations are serving as a driving force behind the growth of the global

custom gene synthesis service market. These innovations are revolutionizing the field of genetic engineering, making it more efficient, precise, and cost-effective. As a result, custom gene synthesis services have become increasingly accessible and attractive to a wide range of industries and researchers.

One of the most significant technological advancements in gene synthesis is solid-phase synthesis. This method involves building DNA sequences one nucleotide at a time on a solid support, allowing for the creation of longer and more complex DNA constructs with greater accuracy. Solid-phase synthesis has significantly improved the efficiency of gene synthesis, reduced errors and lowering costs, which in turn has spurred the adoption of custom gene synthesis services.

Another groundbreaking technology contributing to market growth is high-throughput DNA synthesis. This approach enables the simultaneous synthesis of thousands of DNA sequences in parallel, dramatically increasing the throughput and speed of gene synthesis projects. High-throughput platforms have become essential for large-scale DNA assembly and the rapid generation of custom DNA constructs, making them indispensable in industries such as pharmaceuticals and biotechnology.

Additionally, advancements in DNA assembly techniques, such as Gibson assembly and Golden Gate assembly, have streamlined the process of joining DNA fragments together. These methods are more efficient and versatile than traditional cloning techniques, allowing for the precise construction of complex genetic constructs. As a result, researchers and biotech companies are increasingly turning to custom gene synthesis services for their DNA assembly needs.

Furthermore, the integration of automation and robotics into gene synthesis workflows has significantly improved the efficiency and scalability of custom gene synthesis services. Automated platforms can carry out repetitive tasks with precision and speed, reducing the risk of human error and ensuring the consistent quality of synthesized DNA constructs.

Key Market Challenges

Cost Constraints

The global custom gene synthesis service market, a burgeoning sector at the intersection of biotechnology and life sciences, has witnessed impressive growth in recent years. However, one of the most persistent challenges hampering its widespread

adoption and expansion is cost constraints.

One of the primary cost-related challenges is the expense of synthesizing DNA, particularly for longer and more intricate sequences. Despite notable advancements in technology and process efficiency, the production of synthetic DNA can still be relatively expensive. This cost can pose a barrier to entry for researchers, especially those working with limited budgets in academic institutions or small startups. As a result, these cost constraints can limit access to custom gene synthesis services, restricting the democratization of this crucial technology.

Another cost-related issue is the variability in pricing among different service providers. The lack of standardized pricing models in the custom gene synthesis market can make it challenging for customers to compare options and choose the most cost-effective solution for their specific needs. This variability in pricing can lead to confusion and uncertainty among potential users, hindering the market's growth.

Additionally, the cost of custom gene synthesis services can significantly impact research budgets and project feasibility. Researchers often require rapid access to synthesized DNA constructs to advance their studies, but budget constraints can limit their ability to take full advantage of these services. Delays in accessing the necessary genetic material can slow down research progress and affect project timelines, potentially hampering scientific breakthroughs.

Complexity of Large DNA Constructs

The global custom gene synthesis service market, which offers tailored DNA sequences for a myriad of applications, has seen substantial growth. However, it grapples with a persistent challenge – the complexity of large DNA constructs. While the promise of custom gene synthesis services is substantial, the creation of intricate, sizable DNA sequences remains a technical hurdle that hinders market expansion.

One of the foremost challenges lies in designing and assembling large and intricate DNA constructs with precision. As research projects become more ambitious, the need for longer, complex DNA sequences has become increasingly prevalent. These sequences may be needed to engineer entire metabolic pathways, create synthetic organisms, or develop novel bioproducts. However, the intricacies of assembling such constructs accurately pose significant technical challenges.

Ensuring the high-fidelity assembly of large genes or synthetic pathways can be a labor-

intensive and time-consuming process. Errors in the sequence assembly can lead to compromised research results or the ineffectiveness of engineered biological systems. Researchers and biotech companies often grapple with optimizing and troubleshooting the synthesis of large DNA constructs, adding complexity to their projects.

Moreover, the cost associated with synthesizing large DNA constructs can be prohibitive. Longer sequences require more resources and time to produce, which can strain research budgets and project timelines. This financial constraint can discourage researchers from pursuing projects that necessitate extensive custom gene synthesis, limiting the market's potential for growth.

Key Market Trends

Emerging Applications in Drug Discovery

Emerging applications in drug discovery are playing a pivotal role in boosting the global custom gene synthesis service market. The pharmaceutical industry has long been a significant consumer of these services, but recent trends and innovations are driving even greater demand for customized DNA sequences.

Custom gene synthesis services are essential for drug discovery and development. Researchers rely on synthesized DNA constructs to study gene function, validate potential drug targets, and produce therapeutic proteins. As the drug discovery process becomes more complex and biologically driven, the need for precision and customization has grown exponentially.

One of the emerging applications in drug discovery that is fueling demand for custom gene synthesis services is CRISPR-Cas9 genome editing. This revolutionary technology allows researchers to precisely edit and manipulate genes, making it a powerful tool for identifying and validating potential drug targets. Custom-designed DNA constructs are essential in guiding CRISPR-Cas9 to the desired genomic location, enabling accurate gene editing. Furthermore, the pursuit of personalized medicine in drug development is driving the need for custom gene synthesis. Custom DNA sequences are used to create patient-specific models for testing drug responses, ensuring that treatments are tailored to individual genetic profiles. This approach has the potential to revolutionize drug efficacy and reduce adverse effects, making it a high-priority area of research.

Moreover, as the focus shifts toward rare and orphan diseases, the pharmaceutical

industry is turning to custom gene synthesis services to develop treatments for conditions with limited patient populations. Customized DNA constructs enable the production of therapeutic proteins and gene therapies designed specifically for these niche markets. Additionally, the increasing interest in biologics, such as monoclonal antibodies and recombinant proteins, is driving demand for synthetic DNA constructs. These biopharmaceuticals are highly effective in treating a wide range of diseases, but their production relies on custom gene synthesis to engineer host cells that can express these complex molecules.

Biotechnology Advancements

Biotechnology advancements are playing a significant role in boosting the global custom gene synthesis service market. Custom gene synthesis services, which provide tailored DNA sequences for various applications, are integral to the progress and innovation in the biotechnology sector. Several key trends within biotechnology are contributing to the growing demand for these services.

One of the primary drivers is the development of novel bioproducts and biopharmaceuticals. Biotechnology companies are increasingly turning to custom gene synthesis services to obtain synthetic DNA constructs for the production of enzymes, antibodies, and other bioproducts. The ability to design and engineer DNA sequences to optimize the expression of these molecules is essential for enhancing production yields and the overall efficiency of biotechnological processes.

Moreover, biotechnology is at the forefront of therapeutic innovations, particularly in the field of gene therapy. Custom gene synthesis services are instrumental in creating the customized genetic material required for gene therapy treatments. Researchers and biotech firms utilize these services to design and construct therapeutic DNA sequences that can correct or replace faulty genes, offering hope for patients with genetic disorders and various diseases. Biotechnology's emphasis on genetic engineering and synthetic biology further underscores the importance of custom gene synthesis services. Researchers are engineering microorganisms to produce biofuels, bio-based materials, and specialty chemicals. These applications require precise DNA constructs tailored to specific metabolic pathways, and custom gene synthesis services are instrumental in providing the required genetic material for these endeavors.

Additionally, the biotechnology sector's increasing interest in CRISPR-Cas9 genome editing is driving demand for custom gene synthesis. This revolutionary technology relies on synthesized DNA constructs to guide the Cas9 enzyme to its target genomic

location, allowing for precise gene editing. As CRISPR-Cas9 applications expand beyond basic research into therapeutic and industrial contexts, the need for high-quality, custom-designed DNA sequences continues to grow. Furthermore, advancements in synthetic biology are propelling the custom gene synthesis market forward. Synthetic biology seeks to engineer biological systems for diverse purposes, from creating new pharmaceuticals to designing organisms for industrial processes.

Segmental Insights

Type Insights

Based on the Type, the 1001 to 3000 base pairs (bp) emerged as the dominant segment in the global market for Global Custom Gene Synthesis Service Market in 2022. The CRISPR-Cas9 genome editing technology, which relies on synthetic DNA constructs as guides for precise gene editing, often involves sequences within the 1001 to 3000 bp range. Researchers designing guide RNAs (gRNAs) for specific gene editing applications require custom DNA constructs that fall within this size category, making it a significant driver of demand for custom gene synthesis services. Synthetic biology experiments often require DNA constructs in the 1001 to 3000 bp range. This size range allows for the creation of synthetic genetic circuits, engineered microorganisms, and other complex biological systems.

Application Insights

Based on the Application, the Commercial segment emerged as the dominant player in the global market for Global Custom Gene Synthesis Service Market in 2022. Commercial entities are at the forefront of developing gene therapies and personalized medicine solutions. These therapies often require custom-designed DNA sequences tailored to individual patients or specific genetic disorders. Custom gene synthesis services enable companies to create the genetic material needed for these innovative medical treatments.

Regional Insights

North America emerged as the dominant player in the global Custom Gene Synthesis Service Market in 2022, holding the largest market share. North America boasts a highly advanced biotechnology and pharmaceutical sector, with numerous leading companies, research institutions, and academic centers. These entities drive substantial demand for custom gene synthesis services to support their research, drug discovery, and

development efforts. Many global custom gene synthesis service providers have a strong presence in North America, establishing strategic partnerships and collaborations with local biotech firms and research institutions. This further bolsters the region's market dominance.

Key Market Players

GenScript Biotech Corporation

Biomatik Corporation

ProteoGenix

Thermo Fisher Scientific Inc.

Integrated DNA Technologies

Synbio Technologies

NZYTEch

Biocompare

Eurofins Genomics

BioCat GmbH

Report Scope:

In this report, the Global Custom Gene Synthesis Service Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Custom Gene Synthesis Service Market, By Type:

Below 1000 bp

1001 to 3000 bp

3001 to 5000 bp

above 5000 bp

Global Custom Gene Synthesis Service Market, By Application:

Commercial

Academic Research

Global Custom Gene Synthesis Service Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Custom Gene Synthesis Service Market.

Available Customizations:

Global Custom Gene Synthesis Service Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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