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DNA and Gene Cloning Services Market – Distribution by Type of Service Offered (Gene Synthesis, Custom Cloning, Sub-cloning and Others), Type of Gene (Standard Gene, Complex Gene and Others), Company Size (Small, Mid-sized and Large), End-User Industry (Academic and R&D, Pharmaceutical and Biotechnology Companies, and Others) and Key Geographies (North America, Europe, Asia-Pacific, Latin America and MENA): Industry Trends and Global Forecasts, 2022-2035

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Abstracts

The projected value of DNA and gene cloning market is expected to be valued at USD 2,100 million in 2022 and is anticipated to grow at a CAGR of 16% during the forecast period 2022-2035.

In 1973, a pivotal scientific breakthrough occurred when a group of researchers demonstrated the isolation and cloning of individual genes through the enzymatic cleavage of DNA into fragments. This milestone marked the inception of DNA and gene cloning, subsequently evolving into a fundamental tool for genetic research. The ongoing progress in genetic engineering and cloning techniques has facilitated genome alterations in microorganisms, leading to the production of substances with diverse applications in research and therapeutics.

The ramifications of gene cloning extend to the development of gene therapies aimed at addressing serious medical conditions such as cystic fibrosis, cancer, and AIDS.

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Remarkably, gene cloning presents a potential remedy for organ scarcity and plays a crucial role in the synthesis of antibiotics, vitamins, and hormones. Recognizing the multifaceted applications of DNA and gene cloning, scientists have undertaken initiatives to construct gene libraries housing a comprehensive collection of cloned DNA.

However, the successful implementation of DNA and gene cloning is not without its challenges. Issues such as gene toxicity, the necessity for specific insert sizes or large vectors, unstable DNA elements, and the presence of DNA secondary structures pose hurdles in achieving seamless cloning processes. To surmount these obstacles and ensure the production of high-quality and stable outcomes, companies engaged in DNA and gene cloning are increasingly turning to outsourcing as a preferable solution among other alternatives.

Presently, the landscape of DNA cloning and gene cloning services is characterized by a highly fragmented market, featuring a diverse array of players ranging from start-ups to mid-sized firms and well-established entities. These entities offer a comprehensive spectrum of services employing various cloning methods. Noteworthy is the significant research focus on DNA cloning technologies, evident from the publication of over 6,900 research articles in recent years. Moreover, more than 35 global events have been organized to delve into the latest trends associated with DNA and gene cloning.

Driven by escalating demand for gene therapies and the introduction of novel, advanced DNA cloning technologies, the DNA cloning and gene cloning services market is poised for steady growth during the forecast period. This trajectory reflects the increasing significance of cloning services in advancing scientific and medical frontiers.

Research Coverage

A comprehensive overview of DNA cloning, covering methods (e.g., PCR, Ligation Independent Cloning), techniques, gene types, expression systems, and cloning vectors. It also delves into applications, challenges, and the rationale for outsourcing.

The current market landscape, evaluating providers based on parameters like establishment year, size, and services offered, including gene synthesis and custom cloning.

A benchmark analysis of DNA and gene cloning service providers in North America, Europe, Asia-Pacific, and Rest of the World, comparing capabilities

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using various parameters.

Detailed profiles of key players in DNA and gene cloning services, encompassing company overviews, financial information, service portfolios, and recent developments.

Patents related to DNA and gene cloning since 2017, considering parameters like patent type, geographical location, and leading players.

Reviews over 6,900 peer-reviewed articles on DNA and gene cloning published between 2018 and 2022, examining parameters such as publication year and key focus areas.

Recent events related to DNA and gene cloning, considering factors like event type, geographical distribution, and emerging agendas.

A market forecast analysis until 2035, segmented by service type, gene type, company size, end-user industry, and geographical regions.

A case study on DNA cloning kits developers, detailing kit components, cloning methods, and geographical distribution. It also covers DNA cloning reagents developers.

Key Market Companies

Aragen Life Sciences

Bio-Techne

Charles River Laboratories

Curia

Eurofins

GenScript

Integrated DNA Technologies

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MedGenome

Sino Biological

Syngene

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