

DNA And Gene Cloning Services Global Market Report 2025: Unlocking The Potential Of Genetics And Genomics

The Business Research Company's DNA And Gene Cloning Services Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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DNA And Gene Cloning Services Global Market Report 2025

The [DNA and gene cloning services market](#) has experienced considerable growth over recent years, growing from \$2.69 billion in 2024 to an estimated \$3.07 billion in 2025, at a compound annual growth rate CAGR of 14.2%. This considerable growth in the historic period can be attributed to factors including increased demand for personalized medicine, increased investment in biopharmaceutical research, increased prevalence of genetic disorders, expanding applications in agriculture and biotechnology, along with supportive government funding for genomic studies.

What are the future predictions for the DNA and gene cloning services market?

The market size of DNA and gene cloning services is forecast to grow rapidly in the next few years. The market is projected to grow to \$5.16 billion in 2029 at a CAGR of 13.9%. This forthcoming growth is expected to be driven by the increasing demand for personalized medicine, rising applications in gene therapy, growing investments in biopharmaceutical R&D, expanding use of synthetic biology, supportive government regulations and increased funding for biotechnology, and the mounting prevalence of genetic disorders.

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What is the driving force behind this monumental growth?

Spearheading this market growth is the rise in the use of gene therapy. Gene therapy essentially

consists of altering a person's genes to either prevent or cure diseases. This therapeutic methodology can encompass replacing defective genes, deactivating damaging genes, or even introducing new genes to counter diseases. Gene therapy's potential to treat previously incurable genetic disorders, advancements in biotechnology, and growing awareness among healthcare professionals and patients are advancing its rise. DNA and gene cloning services are crucial in gene therapy for developing targeted genetic modifications to treat genetic disorders. Supplementing this is the American Society of Gene & Cell Therapy report in April 2024, which showed a 10% increase in the number of Phase III gene therapy clinical trials in the fourth quarter. Therefore, the rise in gene therapy significantly contributes to the growth of the DNA and gene cloning services market.

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What significant companies are propelling the DNA and gene cloning services market?

Leading companies in this global market include Merck KGaA, Thermo Fisher Scientific Inc., Danaher Corporation, Eurofins Scientific, Agilent Technologies Inc., Lonza Group, Sartorius AG, Charles River Laboratories, Bio-Rad Laboratories Inc., Bio-Techne, Curia Global Inc., Integrated DNA Technologies Inc., GenScript Biotech Corporation, Takara Bio Inc., Syngene International Limited, Twist Bioscience, New England Biolabs Inc., Origene Technologies Inc., MedGenome, Sino Biological, Genewiz Inc., Creative Biogene, along with Addgene.

What are the emerging technological advancements in the DNA and gene cloning services market?

Major industry players are focusing on technological advancements such as AI-generated gene editors to enhance accuracy, streamline processes, and reduce development time for custom genetic modifications and therapeutic applications. As an example, the US-based biotechnology research company, Profluent, launched OpenCRISPR-1, an AI-designed gene editor in April 2024. This pioneering innovation showcases precision genome editing with customizable CRISPR-like proteins created through extensive language models, concurrently expanding the CRISPR capabilities and revolutionizing genetic science.

How is the [DNA and gene cloning services market segmented](#)?

The DNA and gene cloning services market is categorized based on:

- 1 Type Of Gene: Standard Gene, Complex Gene, Other Types Of Genes
- 2 Service Type: Gene Synthesis, Custom Cloning, Subcloning, Other Service Types
- 3 Application: DNA Sequencing, Mutagenesis, Genotyping, Other Applications
- 4 End-User Industry: Academic And Research And Development R&D, Pharmaceutical And Biotechnology Companies, Other End User Industries

Subsegmentations include:

1 By Standard Gene: Cloning Of Protein-coding Genes, Non-coding Genes

2 By Complex Gene: Multi-exon Genes, Genes With Alternative Splicing, Large Or Multi-structural Genes

3 By Other Types Of Genes: Synthetic Genes, Viral Genes, Genomic DNA Cloning

Which regions are key players in the DNA and gene cloning services market?

In 2024, North America took the lead as the largest region in the DNA and gene cloning services market. However, Asia-Pacific is projected to emerge as the fastest-growing region during the forecast period. Regional coverage in the DNA and gene cloning services market report extends across Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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