

Global Gene Site-Directed Mutagenesis Services Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gene Site-Directed Mutagenesis Services market size is expected to reach \$ 274 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Gene Site-Directed Mutagenesis Service is a research outsourcing service based on molecular biology techniques. This service designs specific oligonucleotide primers and uses methods such as PCR (polymerase chain reaction) to introduce precise substitutions, deletions, or insertions at specific nucleotide sites in target genes to simulate naturally occurring mutations or create loss-of-function mutants. Its main purpose is to study the relationship between gene function, protein structure, and activity, or to construct gene expression vectors that meet specific needs. The service provider typically handles the entire process from mutant primer design and plasmid construction to mutant screening and sequencing validation.

The global Gene Site-Directed Mutagenesis Services market is driven by both North America and the Asia-Pacific region. North America, leveraging its mature biotechnology industry chain, boasts numerous specialized companies offering high-throughput, customized mutation services, covering technologies from traditional molecular cloning to advanced CRISPR editing; the market is highly mature. Europe focuses on the integration of technology and basic research, with service providers deeply integrated with structural biology and drug target validation, emphasizing service accuracy and data rigor. The Asia-Pacific region, represented by China, is experiencing rapid growth, utilizing large-scale sequencing platforms and synthetic biology capacity to provide cost-effective, fast services, gradually shifting from low-end contract manufacturing to customized services for complex mutations and model animals.

This report studies the global Gene Site-Directed Mutagenesis Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gene Site-Directed Mutagenesis Services, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gene Site-Directed Mutagenesis Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gene Site-Directed Mutagenesis Services total market, 2021-2032, (USD Million)

Global Gene Site-Directed Mutagenesis Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Gene Site-Directed Mutagenesis Services total market, key domestic companies, and share, (USD Million)

Global Gene Site-Directed Mutagenesis Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Gene Site-Directed Mutagenesis Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Gene Site-Directed Mutagenesis Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Gene Site-Directed Mutagenesis Services market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Azenta Life Sciences, GenScript, Thermo Fisher Scientific, Charles River Laboratories, Genewiz, Creative Biolabs, NovoPro Bioscience Inc., ACGT, Inc., Epoch Life Science, Eurofins Genomics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Gene Site-Directed Mutagenesis Services market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gene Site-Directed Mutagenesis Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gene Site-Directed Mutagenesis Services Market, Segmentation by Type:

Synonymous Mutations

Missense Mutation

Nonsense Mutation

Global Gene Site-Directed Mutagenesis Services Market, Segmentation by Technology:

PCR-Mediated Site-Directed Mutagenesis Service

Homologous Recombination-Based Site-Directed Mutagenesis Service

Single Primer/Whole Plasmid Amplification-Based Mutagenesis Service

Global Gene Site-Directed Mutagenesis Services Market, Segmentation by Function:

Function Gain/Loss Service

Protein Structure Research Service

Promoter/Regulatory Element Analysis Service

Resistance/Activity Optimization Service

Others

Global Gene Site-Directed Mutagenesis Services Market, Segmentation by Application:

Medical Industry

Biological Research

Others

Companies Profiled:

Azenta Life Sciences

GenScript

Thermo Fisher Scientific

Charles River Laboratories

Genewiz

Creative Biolabs

NovoPro Bioscience Inc.

ACGT, Inc.

Epoch Life Science

Eurofins Genomics

NZYtech

Synbio Technologies

Tsingke

GenCefe

Generay

Key Questions Answered

1. How big is the global Gene Site-Directed Mutagenesis Services market?
2. What is the demand of the global Gene Site-Directed Mutagenesis Services market?
3. What is the year over year growth of the global Gene Site-Directed Mutagenesis Services market?
4. What is the total value of the global Gene Site-Directed Mutagenesis Services market?
5. Who are the Major Players in the global Gene Site-Directed Mutagenesis Services market?
6. What are the growth factors driving the market demand?

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