

Global Gene Site-Directed Mutagenesis Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gene Site-Directed Mutagenesis Services market size was valued at US\$ 192 million in 2025 and is forecast to a readjusted size of US\$ 274 million by 2032 with a CAGR of 5.2% during review period.

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 is a detailed and comprehensive analysis for global Gene Site-Directed Mutagenesis Services market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gene Site-Directed Mutagenesis Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Gene Site-Directed Mutagenesis Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Gene Site-Directed Mutagenesis Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Gene Site-Directed Mutagenesis Services market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gene Site-Directed Mutagenesis Services

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key 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.

Market segmentation

Gene Site-Directed Mutagenesis Services market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Synonymous Mutations

Missense Mutation

Nonsense Mutation

Market segment by Technology

PCR-Mediated Site-Directed Mutagenesis Service

Homologous Recombination-Based Site-Directed Mutagenesis Service

Single Primer/Whole Plasmid Amplification-Based Mutagenesis Service

Market segment by Function

Function Gain/Loss Service

Protein Structure Research Service

Promoter/Regulatory Element Analysis Service

Resistance/Activity Optimization Service

Others

Market segment by Application

Medical Industry

Biological Research

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Gene Site-Directed Mutagenesis Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Gene Site-Directed Mutagenesis Services, with revenue, gross margin, and global market share of Gene Site-Directed Mutagenesis Services from 2021 to 2026.

Chapter 3, the Gene Site-Directed Mutagenesis Services competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Gene Site-Directed Mutagenesis Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Gene Site-Directed Mutagenesis Services.

Chapter 13, to describe Gene Site-Directed Mutagenesis Services research findings

and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Gene Site-Directed Mutagenesis Services by Type

1.3.1 Overview: Global Gene Site-Directed Mutagenesis Services Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type in 2025

1.3.3 Synonymous Mutations

1.3.4 Missense Mutation

1.3.5 Nonsense Mutation

1.4 Classification of Gene Site-Directed Mutagenesis Services by Technology

1.4.1 Overview: Global Gene Site-Directed Mutagenesis Services Market Size by Technology: 2021 Versus 2025 Versus 2032

1.4.2 Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Technology in 2025

1.4.3 PCR-Mediated Site-Directed Mutagenesis Service

1.4.4 Homologous Recombination-Based Site-Directed Mutagenesis Service

1.4.5 Single Primer/Whole Plasmid Amplification-Based Mutagenesis Service

1.5 Classification of Gene Site-Directed Mutagenesis Services by Function

1.5.1 Overview: Global Gene Site-Directed Mutagenesis Services Market Size by Function: 2021 Versus 2025 Versus 2032

1.5.2 Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Function in 2025

1.5.3 Function Gain/Loss Service

1.5.4 Protein Structure Research Service

1.5.5 Promoter/Regulatory Element Analysis Service

1.5.6 Resistance/Activity Optimization Service

1.5.7 Others

1.6 Global Gene Site-Directed Mutagenesis Services Market by Application

1.6.1 Overview: Global Gene Site-Directed Mutagenesis Services Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Medical Industry

1.6.3 Biological Research

1.6.4 Others

1.7 Global Gene Site-Directed Mutagenesis Services Market Size & Forecast

1.8 Global Gene Site-Directed Mutagenesis Services Market Size and Forecast by Region

1.8.1 Global Gene Site-Directed Mutagenesis Services Market Size by Region: 2021 VS 2025 VS 2032

1.8.2 Global Gene Site-Directed Mutagenesis Services Market Size by Region, (2021-2032)

1.8.3 North America Gene Site-Directed Mutagenesis Services Market Size and Prospect (2021-2032)

1.8.4 Europe Gene Site-Directed Mutagenesis Services Market Size and Prospect (2021-2032)

1.8.5 Asia-Pacific Gene Site-Directed Mutagenesis Services Market Size and Prospect (2021-2032)

1.8.6 South America Gene Site-Directed Mutagenesis Services Market Size and Prospect (2021-2032)

1.8.7 Middle East & Africa Gene Site-Directed Mutagenesis Services Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Azenta Life Sciences

2.1.1 Azenta Life Sciences Details

2.1.2 Azenta Life Sciences Major Business

2.1.3 Azenta Life Sciences Gene Site-Directed Mutagenesis Services Product and Solutions

2.1.4 Azenta Life Sciences Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Azenta Life Sciences Recent Developments and Future Plans

2.2 GenScript

2.2.1 GenScript Details

2.2.2 GenScript Major Business

2.2.3 GenScript Gene Site-Directed Mutagenesis Services Product and Solutions

2.2.4 GenScript Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 GenScript Recent Developments and Future Plans

2.3 Thermo Fisher Scientific

2.3.1 Thermo Fisher Scientific Details

2.3.2 Thermo Fisher Scientific Major Business

2.3.3 Thermo Fisher Scientific Gene Site-Directed Mutagenesis Services Product and Solutions

2.3.4 Thermo Fisher Scientific Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Thermo Fisher Scientific Recent Developments and Future Plans

2.4 Charles River Laboratories

2.4.1 Charles River Laboratories Details

2.4.2 Charles River Laboratories Major Business

2.4.3 Charles River Laboratories Gene Site-Directed Mutagenesis Services Product and Solutions

2.4.4 Charles River Laboratories Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Charles River Laboratories Recent Developments and Future Plans

2.5 Genewiz

2.5.1 Genewiz Details

2.5.2 Genewiz Major Business

2.5.3 Genewiz Gene Site-Directed Mutagenesis Services Product and Solutions

2.5.4 Genewiz Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Genewiz Recent Developments and Future Plans

2.6 Creative Biolabs

2.6.1 Creative Biolabs Details

2.6.2 Creative Biolabs Major Business

2.6.3 Creative Biolabs Gene Site-Directed Mutagenesis Services Product and Solutions

2.6.4 Creative Biolabs Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Creative Biolabs Recent Developments and Future Plans

2.7 NovoPro Bioscience Inc.

2.7.1 NovoPro Bioscience Inc. Details

2.7.2 NovoPro Bioscience Inc. Major Business

2.7.3 NovoPro Bioscience Inc. Gene Site-Directed Mutagenesis Services Product and Solutions

2.7.4 NovoPro Bioscience Inc. Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 NovoPro Bioscience Inc. Recent Developments and Future Plans

2.8 ACGT, Inc.

2.8.1 ACGT, Inc. Details

2.8.2 ACGT, Inc. Major Business

2.8.3 ACGT, Inc. Gene Site-Directed Mutagenesis Services Product and Solutions

2.8.4 ACGT, Inc. Gene Site-Directed Mutagenesis Services Revenue, Gross Margin

and Market Share (2021-2026)

2.8.5 ACGT, Inc. Recent Developments and Future Plans

2.9 Epoch Life Science

2.9.1 Epoch Life Science Details

2.9.2 Epoch Life Science Major Business

2.9.3 Epoch Life Science Gene Site-Directed Mutagenesis Services Product and Solutions

2.9.4 Epoch Life Science Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Epoch Life Science Recent Developments and Future Plans

2.10 Eurofins Genomics

2.10.1 Eurofins Genomics Details

2.10.2 Eurofins Genomics Major Business

2.10.3 Eurofins Genomics Gene Site-Directed Mutagenesis Services Product and Solutions

2.10.4 Eurofins Genomics Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Eurofins Genomics Recent Developments and Future Plans

2.11 NZYtech

2.11.1 NZYtech Details

2.11.2 NZYtech Major Business

2.11.3 NZYtech Gene Site-Directed Mutagenesis Services Product and Solutions

2.11.4 NZYtech Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 NZYtech Recent Developments and Future Plans

2.12 Synbio Technologies

2.12.1 Synbio Technologies Details

2.12.2 Synbio Technologies Major Business

2.12.3 Synbio Technologies Gene Site-Directed Mutagenesis Services Product and Solutions

2.12.4 Synbio Technologies Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Synbio Technologies Recent Developments and Future Plans

2.13 Tsingke

2.13.1 Tsingke Details

2.13.2 Tsingke Major Business

2.13.3 Tsingke Gene Site-Directed Mutagenesis Services Product and Solutions

2.13.4 Tsingke Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)

- 2.13.5 Tsingke Recent Developments and Future Plans
- 2.14 GenCefe
 - 2.14.1 GenCefe Details
 - 2.14.2 GenCefe Major Business
 - 2.14.3 GenCefe Gene Site-Directed Mutagenesis Services Product and Solutions
 - 2.14.4 GenCefe Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 GenCefe Recent Developments and Future Plans
- 2.15 Generay
 - 2.15.1 Generay Details
 - 2.15.2 Generay Major Business
 - 2.15.3 Generay Gene Site-Directed Mutagenesis Services Product and Solutions
 - 2.15.4 Generay Gene Site-Directed Mutagenesis Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Generay Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Gene Site-Directed Mutagenesis Services Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of Gene Site-Directed Mutagenesis Services by Company Revenue
 - 3.2.2 Top 3 Gene Site-Directed Mutagenesis Services Players Market Share in 2025
 - 3.2.3 Top 6 Gene Site-Directed Mutagenesis Services Players Market Share in 2025
- 3.3 Gene Site-Directed Mutagenesis Services Market: Overall Company Footprint Analysis
 - 3.3.1 Gene Site-Directed Mutagenesis Services Market: Region Footprint
 - 3.3.2 Gene Site-Directed Mutagenesis Services Market: Company Product Type Footprint
 - 3.3.3 Gene Site-Directed Mutagenesis Services Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global Gene Site-Directed Mutagenesis Services Consumption Value and Market Share by Type (2021-2026)

4.2 Global Gene Site-Directed Mutagenesis Services Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2026)

5.2 Global Gene Site-Directed Mutagenesis Services Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2032)

6.2 North America Gene Site-Directed Mutagenesis Services Market Size by Application (2021-2032)

6.3 North America Gene Site-Directed Mutagenesis Services Market Size by Country

6.3.1 North America Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2032)

6.3.2 United States Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

6.3.3 Canada Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

6.3.4 Mexico Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2032)

7.2 Europe Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2032)

7.3 Europe Gene Site-Directed Mutagenesis Services Market Size by Country

7.3.1 Europe Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2032)

7.3.2 Germany Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

7.3.3 France Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

7.3.5 Russia Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

7.3.6 Italy Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Gene Site-Directed Mutagenesis Services Market Size by Region

8.3.1 Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Region (2021-2032)

8.3.2 China Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8.3.3 Japan Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8.3.4 South Korea Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8.3.5 India Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

8.3.7 Australia Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2032)

9.2 South America Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2032)

9.3 South America Gene Site-Directed Mutagenesis Services Market Size by Country

9.3.1 South America Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2032)

9.3.2 Brazil Gene Site-Directed Mutagenesis Services Market Size and Forecast

(2021-2032)

9.3.3 Argentina Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Gene Site-Directed Mutagenesis Services Market Size by Country

10.3.1 Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2032)

10.3.2 Turkey Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

10.3.4 UAE Gene Site-Directed Mutagenesis Services Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Gene Site-Directed Mutagenesis Services Market Drivers

11.2 Gene Site-Directed Mutagenesis Services Market Restraints

11.3 Gene Site-Directed Mutagenesis Services Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Gene Site-Directed Mutagenesis Services Industry Chain

12.2 Gene Site-Directed Mutagenesis Services Upstream Analysis

12.3 Gene Site-Directed Mutagenesis Services Midstream Analysis

12.4 Gene Site-Directed Mutagenesis Services Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Gene Site-Directed Mutagenesis Services Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Gene Site-Directed Mutagenesis Services Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 3. Global Gene Site-Directed Mutagenesis Services Consumption Value by Function, (USD Million), 2021 & 2025 & 2032

Table 4. Global Gene Site-Directed Mutagenesis Services Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global Gene Site-Directed Mutagenesis Services Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global Gene Site-Directed Mutagenesis Services Consumption Value by Region (2027-2032) & (USD Million)

Table 7. Azenta Life Sciences Company Information, Head Office, and Major Competitors

Table 8. Azenta Life Sciences Major Business

Table 9. Azenta Life Sciences Gene Site-Directed Mutagenesis Services Product and Solutions

Table 10. Azenta Life Sciences Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. Azenta Life Sciences Recent Developments and Future Plans

Table 12. GenScript Company Information, Head Office, and Major Competitors

Table 13. GenScript Major Business

Table 14. GenScript Gene Site-Directed Mutagenesis Services Product and Solutions

Table 15. GenScript Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. GenScript Recent Developments and Future Plans

Table 17. Thermo Fisher Scientific Company Information, Head Office, and Major Competitors

Table 18. Thermo Fisher Scientific Major Business

Table 19. Thermo Fisher Scientific Gene Site-Directed Mutagenesis Services Product and Solutions

Table 20. Thermo Fisher Scientific Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. Charles River Laboratories Company Information, Head Office, and Major Competitors

- Table 22. Charles River Laboratories Major Business
- Table 23. Charles River Laboratories Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 24. Charles River Laboratories Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 25. Charles River Laboratories Recent Developments and Future Plans
- Table 26. Genewiz Company Information, Head Office, and Major Competitors
- Table 27. Genewiz Major Business
- Table 28. Genewiz Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 29. Genewiz Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 30. Genewiz Recent Developments and Future Plans
- Table 31. Creative Biolabs Company Information, Head Office, and Major Competitors
- Table 32. Creative Biolabs Major Business
- Table 33. Creative Biolabs Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 34. Creative Biolabs Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 35. Creative Biolabs Recent Developments and Future Plans
- Table 36. NovoPro Bioscience Inc. Company Information, Head Office, and Major Competitors
- Table 37. NovoPro Bioscience Inc. Major Business
- Table 38. NovoPro Bioscience Inc. Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 39. NovoPro Bioscience Inc. Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 40. NovoPro Bioscience Inc. Recent Developments and Future Plans
- Table 41. ACGT, Inc. Company Information, Head Office, and Major Competitors
- Table 42. ACGT, Inc. Major Business
- Table 43. ACGT, Inc. Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 44. ACGT, Inc. Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 45. ACGT, Inc. Recent Developments and Future Plans
- Table 46. Epoch Life Science Company Information, Head Office, and Major Competitors
- Table 47. Epoch Life Science Major Business
- Table 48. Epoch Life Science Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 49. Epoch Life Science Gene Site-Directed Mutagenesis Services Revenue (USD

- Million), Gross Margin and Market Share (2021-2026)
- Table 50. Epoch Life Science Recent Developments and Future Plans
- Table 51. Eurofins Genomics Company Information, Head Office, and Major Competitors
- Table 52. Eurofins Genomics Major Business
- Table 53. Eurofins Genomics Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 54. Eurofins Genomics Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 55. Eurofins Genomics Recent Developments and Future Plans
- Table 56. NZYtech Company Information, Head Office, and Major Competitors
- Table 57. NZYtech Major Business
- Table 58. NZYtech Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 59. NZYtech Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 60. NZYtech Recent Developments and Future Plans
- Table 61. Synbio Technologies Company Information, Head Office, and Major Competitors
- Table 62. Synbio Technologies Major Business
- Table 63. Synbio Technologies Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 64. Synbio Technologies Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. Synbio Technologies Recent Developments and Future Plans
- Table 66. Tsingke Company Information, Head Office, and Major Competitors
- Table 67. Tsingke Major Business
- Table 68. Tsingke Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 69. Tsingke Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 70. Tsingke Recent Developments and Future Plans
- Table 71. GenCefe Company Information, Head Office, and Major Competitors
- Table 72. GenCefe Major Business
- Table 73. GenCefe Gene Site-Directed Mutagenesis Services Product and Solutions
- Table 74. GenCefe Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 75. GenCefe Recent Developments and Future Plans
- Table 76. Generay Company Information, Head Office, and Major Competitors
- Table 77. Generay Major Business
- Table 78. Generay Gene Site-Directed Mutagenesis Services Product and Solutions

Table 79. Generay Gene Site-Directed Mutagenesis Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Generay Recent Developments and Future Plans

Table 81. Global Gene Site-Directed Mutagenesis Services Revenue (USD Million) by Players (2021-2026)

Table 82. Global Gene Site-Directed Mutagenesis Services Revenue Share by Players (2021-2026)

Table 83. Breakdown of Gene Site-Directed Mutagenesis Services by Company Type (Tier 1, Tier 2, and Tier 3)

Table 84. Market Position of Players in Gene Site-Directed Mutagenesis Services, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 85. Head Office of Key Gene Site-Directed Mutagenesis Services Players

Table 86. Gene Site-Directed Mutagenesis Services Market: Company Product Type Footprint

Table 87. Gene Site-Directed Mutagenesis Services Market: Company Product Application Footprint

Table 88. Gene Site-Directed Mutagenesis Services New Market Entrants and Barriers to Market Entry

Table 89. Gene Site-Directed Mutagenesis Services Mergers, Acquisition, Agreements, and Collaborations

Table 90. Global Gene Site-Directed Mutagenesis Services Consumption Value (USD Million) by Type (2021-2026)

Table 91. Global Gene Site-Directed Mutagenesis Services Consumption Value Share by Type (2021-2026)

Table 92. Global Gene Site-Directed Mutagenesis Services Consumption Value Forecast by Type (2027-2032)

Table 93. Global Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026)

Table 94. Global Gene Site-Directed Mutagenesis Services Consumption Value Forecast by Application (2027-2032)

Table 95. North America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2026) & (USD Million)

Table 96. North America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2027-2032) & (USD Million)

Table 97. North America Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026) & (USD Million)

Table 98. North America Gene Site-Directed Mutagenesis Services Consumption Value by Application (2027-2032) & (USD Million)

Table 99. North America Gene Site-Directed Mutagenesis Services Consumption Value

by Country (2021-2026) & (USD Million)

Table 100. North America Gene Site-Directed Mutagenesis Services Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2026) & (USD Million)

Table 102. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Type (2027-2032) & (USD Million)

Table 103. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026) & (USD Million)

Table 104. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Application (2027-2032) & (USD Million)

Table 105. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2026) & (USD Million)

Table 106. Europe Gene Site-Directed Mutagenesis Services Consumption Value by Country (2027-2032) & (USD Million)

Table 107. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2026) & (USD Million)

Table 108. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Type (2027-2032) & (USD Million)

Table 109. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026) & (USD Million)

Table 110. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Application (2027-2032) & (USD Million)

Table 111. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Region (2021-2026) & (USD Million)

Table 112. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value by Region (2027-2032) & (USD Million)

Table 113. South America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2026) & (USD Million)

Table 114. South America Gene Site-Directed Mutagenesis Services Consumption Value by Type (2027-2032) & (USD Million)

Table 115. South America Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026) & (USD Million)

Table 116. South America Gene Site-Directed Mutagenesis Services Consumption Value by Application (2027-2032) & (USD Million)

Table 117. South America Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2026) & (USD Million)

Table 118. South America Gene Site-Directed Mutagenesis Services Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Type (2021-2026) & (USD Million)

Table 120. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Type (2027-2032) & (USD Million)

Table 121. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Application (2021-2026) & (USD Million)

Table 122. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Application (2027-2032) & (USD Million)

Table 123. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Country (2021-2026) & (USD Million)

Table 124. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Global Key Players of Gene Site-Directed Mutagenesis Services Upstream (Raw Materials)

Table 126. Global Gene Site-Directed Mutagenesis Services Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Gene Site-Directed Mutagenesis Services Picture
- Figure 2. Global Gene Site-Directed Mutagenesis Services Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type in 2025
- Figure 4. Synonymous Mutations
- Figure 5. Missense Mutation
- Figure 6. Nonsense Mutation
- Figure 7. Global Gene Site-Directed Mutagenesis Services Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Technology in 2025
- Figure 9. PCR-Mediated Site-Directed Mutagenesis Service
- Figure 10. Homologous Recombination-Based Site-Directed Mutagenesis Service
- Figure 11. Single Primer/Whole Plasmid Amplification-Based Mutagenesis Service
- Figure 12. Global Gene Site-Directed Mutagenesis Services Consumption Value by Function, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Function in 2025
- Figure 14. Function Gain/Loss Service
- Figure 15. Protein Structure Research Service
- Figure 16. Promoter/Regulatory Element Analysis Service
- Figure 17. Resistance/Activity Optimization Service
- Figure 18. Others
- Figure 19. Global Gene Site-Directed Mutagenesis Services Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application in 2025
- Figure 21. Medical Industry Picture
- Figure 22. Biological Research Picture
- Figure 23. Others Picture
- Figure 24. Global Gene Site-Directed Mutagenesis Services Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Gene Site-Directed Mutagenesis Services Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Market Gene Site-Directed Mutagenesis Services Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 27. Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Region (2021-2032)

Figure 28. Global Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Region in 2025

Figure 29. North America Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 34. Company Three Recent Developments and Future Plans

Figure 35. Global Gene Site-Directed Mutagenesis Services Revenue Share by Players in 2025

Figure 36. Gene Site-Directed Mutagenesis Services Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 37. Market Share of Gene Site-Directed Mutagenesis Services by Player Revenue in 2025

Figure 38. Top 3 Gene Site-Directed Mutagenesis Services Players Market Share in 2025

Figure 39. Top 6 Gene Site-Directed Mutagenesis Services Players Market Share in 2025

Figure 40. Global Gene Site-Directed Mutagenesis Services Consumption Value Share by Type (2021-2026)

Figure 41. Global Gene Site-Directed Mutagenesis Services Market Share Forecast by Type (2027-2032)

Figure 42. Global Gene Site-Directed Mutagenesis Services Consumption Value Share by Application (2021-2026)

Figure 43. Global Gene Site-Directed Mutagenesis Services Market Share Forecast by Application (2027-2032)

Figure 44. North America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type (2021-2032)

Figure 45. North America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2032)

Figure 46. North America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type (2021-2032)

Figure 51. Europe Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2032)

Figure 52. Europe Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 54. France Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Region (2021-2032)

Figure 61. China Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 62. Japan Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 63. South Korea Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 64. India Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 65. Southeast Asia Gene Site-Directed Mutagenesis Services Consumption

Value (2021-2032) & (USD Million)

Figure 66. Australia Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 67. South America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type (2021-2032)

Figure 68. South America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2032)

Figure 69. South America Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Gene Site-Directed Mutagenesis Services Consumption Value Market Share by Country (2021-2032)

Figure 75. Turkey Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 77. UAE Gene Site-Directed Mutagenesis Services Consumption Value (2021-2032) & (USD Million)

Figure 78. Gene Site-Directed Mutagenesis Services Market Drivers

Figure 79. Gene Site-Directed Mutagenesis Services Market Restraints

Figure 80. Gene Site-Directed Mutagenesis Services Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Gene Site-Directed Mutagenesis Services Industrial Chain

Figure 83. Methodology

Figure 84. Research Process and Data Source

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