

Global CRISPR-based Gene Editing Enzymes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CRISPR-based Gene Editing Enzymes market size was valued at US\$ 467 million in 2025 and is forecast to a readjusted size of US\$ 655 million by 2032 with a CAGR of 5.0% during review period.

CRISPR-based gene editing enzymes are molecular systems derived from bacterial immune mechanisms that allow scientists to precisely cut, modify, or regulate DNA within living cells. The core components include the Cas nuclease (such as Cas9 or Cas12) and a guide RNA that directs the nuclease to a specific DNA sequence, enabling targeted gene knockouts, insertions, corrections, or modulation of gene expression. These tools have reshaped biotechnology by offering high accuracy, programmability, and relative simplicity compared with earlier gene-editing methods. They are widely used in basic research, agriculture, drug discovery, and emerging therapeutic applications aimed at treating genetic diseases. Published list prices show wide dispersion: research-grade Cas proteins from ~€81 for 70 pmol Cas12a to ~€289 for 2000 pmol, ~\$879–\$1,022 for 500 µg Cas9.

CRISPR-based gene editing sits within a value chain that begins upstream with the development of core biological components—Cas enzymes (Cas9, Cas12, Cas13), guide RNA synthesis, delivery systems (viral vectors, lipid nanoparticles, RNP complexes), and specialized laboratory tools such as sequencing platforms, reagents, and cell-culture systems. These inputs feed into technology providers and research institutions that design, optimize, and validate CRISPR constructs, therapeutic pipelines, and agricultural or industrial applications. Downstream, CRISPR-enabled products and services flow into biotechnology and pharmaceutical companies developing gene therapies, diagnostics, and engineered cell lines; agricultural firms creating improved

crops; and industrial or academic labs using CRISPR for basic research. Regulatory agencies, clinical trial service providers, and intellectual-property licensors form the final part of the chain. In short, CRISPR gene editing relies on an upstream supply of enzymes, guide RNAs, and delivery technologies, and serves downstream markets in therapeutics, diagnostics, agriculture, and scientific research.

This report is a detailed and comprehensive analysis for global CRISPR-based Gene Editing Enzymes market. Both quantitative and qualitative analyses are presented by manufacturers, 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 CRISPR-based Gene Editing Enzymes market size and forecasts, in consumption value (\$ Million), sales quantity (pmol), and average selling prices (US\$/pmol), 2021-2032

Global CRISPR-based Gene Editing Enzymes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (pmol), and average selling prices (US\$/pmol), 2021-2032

Global CRISPR-based Gene Editing Enzymes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (pmol), and average selling prices (US\$/pmol), 2021-2032

Global CRISPR-based Gene Editing Enzymes market shares of main players, shipments in revenue (\$ Million), sales quantity (pmol), and ASP (US\$/pmol), 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 CRISPR-based Gene Editing Enzymes
- 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 CRISPR-based Gene Editing Enzymes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Merck KGaA, Integrated DNA Technologies (IDT), Takara Bio, New England Biolabs, GenScript, Aldevron, TriLink Biotechnologies, Synthego, KACTUS Bio, etc.

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

Market Segmentation

CRISPR-based Gene Editing Enzymes 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

CRISPR-Cas9

CRISPR-Cas12a (Cpf1)

Base Editors (CBE & ABE)

Others

Market segment by Grade

Research Grade

GMP Grade

Market segment by Application

Basic Research

Biomedicine

Agriculture

Others

Major players covered

Thermo Fisher Scientific

Merck KGaA

Integrated DNA Technologies (IDT)

Takara Bio

New England Biolabs

GenScript

Aldevron

TriLink Biotechnologies

Synthego

KACTUS Bio

Shandong Shunfeng Biotechnology

Renman Biotechnology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe CRISPR-based Gene Editing Enzymes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CRISPR-based Gene Editing Enzymes, with price, sales quantity, revenue, and global market share of CRISPR-based Gene Editing Enzymes from 2021 to 2026.

Chapter 3, the CRISPR-based Gene Editing Enzymes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CRISPR-based Gene Editing Enzymes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and CRISPR-based Gene Editing Enzymes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of CRISPR-based Gene Editing Enzymes.

Chapter 14 and 15, to describe CRISPR-based Gene Editing Enzymes sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global CRISPR-based Gene Editing Enzymes Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 CRISPR-Cas9

1.3.3 CRISPR-Cas12a (Cpf1)

1.3.4 Base Editors (CBE & ABE)

1.3.5 Others

1.4 Market Analysis by Grade

1.4.1 Overview: Global CRISPR-based Gene Editing Enzymes Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.4.2 Research Grade

1.4.3 GMP Grade

1.5 Market Analysis by Application

1.5.1 Overview: Global CRISPR-based Gene Editing Enzymes Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Basic Research

1.5.3 Biomedicine

1.5.4 Agriculture

1.5.5 Others

1.6 Global CRISPR-based Gene Editing Enzymes Market Size & Forecast

1.6.1 Global CRISPR-based Gene Editing Enzymes Consumption Value (2021 & 2025 & 2032)

1.6.2 Global CRISPR-based Gene Editing Enzymes Sales Quantity (2021-2032)

1.6.3 Global CRISPR-based Gene Editing Enzymes Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Thermo Fisher Scientific

2.1.1 Thermo Fisher Scientific Details

2.1.2 Thermo Fisher Scientific Major Business

2.1.3 Thermo Fisher Scientific CRISPR-based Gene Editing Enzymes Product and Services

2.1.4 Thermo Fisher Scientific CRISPR-based Gene Editing Enzymes Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Thermo Fisher Scientific Recent Developments/Updates

2.2 Merck KGaA

2.2.1 Merck KGaA Details

2.2.2 Merck KGaA Major Business

2.2.3 Merck KGaA CRISPR-based Gene Editing Enzymes Product and Services

2.2.4 Merck KGaA CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Merck KGaA Recent Developments/Updates

2.3 Integrated DNA Technologies (IDT)

2.3.1 Integrated DNA Technologies (IDT) Details

2.3.2 Integrated DNA Technologies (IDT) Major Business

2.3.3 Integrated DNA Technologies (IDT) CRISPR-based Gene Editing Enzymes Product and Services

2.3.4 Integrated DNA Technologies (IDT) CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Integrated DNA Technologies (IDT) Recent Developments/Updates

2.4 Takara Bio

2.4.1 Takara Bio Details

2.4.2 Takara Bio Major Business

2.4.3 Takara Bio CRISPR-based Gene Editing Enzymes Product and Services

2.4.4 Takara Bio CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Takara Bio Recent Developments/Updates

2.5 New England Biolabs

2.5.1 New England Biolabs Details

2.5.2 New England Biolabs Major Business

2.5.3 New England Biolabs CRISPR-based Gene Editing Enzymes Product and Services

2.5.4 New England Biolabs CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 New England Biolabs Recent Developments/Updates

2.6 GenScript

2.6.1 GenScript Details

2.6.2 GenScript Major Business

2.6.3 GenScript CRISPR-based Gene Editing Enzymes Product and Services

2.6.4 GenScript CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 GenScript Recent Developments/Updates

2.7 Aldevron

2.7.1 Aldevron Details

2.7.2 Aldevron Major Business

2.7.3 Aldevron CRISPR-based Gene Editing Enzymes Product and Services

2.7.4 Aldevron CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Aldevron Recent Developments/Updates

2.8 TriLink Biotechnologies

2.8.1 TriLink Biotechnologies Details

2.8.2 TriLink Biotechnologies Major Business

2.8.3 TriLink Biotechnologies CRISPR-based Gene Editing Enzymes Product and Services

2.8.4 TriLink Biotechnologies CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 TriLink Biotechnologies Recent Developments/Updates

2.9 Synthego

2.9.1 Synthego Details

2.9.2 Synthego Major Business

2.9.3 Synthego CRISPR-based Gene Editing Enzymes Product and Services

2.9.4 Synthego CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Synthego Recent Developments/Updates

2.10 KACTUS Bio

2.10.1 KACTUS Bio Details

2.10.2 KACTUS Bio Major Business

2.10.3 KACTUS Bio CRISPR-based Gene Editing Enzymes Product and Services

2.10.4 KACTUS Bio CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 KACTUS Bio Recent Developments/Updates

2.11 Shandong Shunfeng Biotechnology

2.11.1 Shandong Shunfeng Biotechnology Details

2.11.2 Shandong Shunfeng Biotechnology Major Business

2.11.3 Shandong Shunfeng Biotechnology CRISPR-based Gene Editing Enzymes Product and Services

2.11.4 Shandong Shunfeng Biotechnology CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Shandong Shunfeng Biotechnology Recent Developments/Updates

2.12 Renman Biotechnology

2.12.1 Renman Biotechnology Details

- 2.12.2 Renman Biotechnology Major Business
- 2.12.3 Renman Biotechnology CRISPR-based Gene Editing Enzymes Product and Services
- 2.12.4 Renman Biotechnology CRISPR-based Gene Editing Enzymes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Renman Biotechnology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CRISPR-BASED GENE EDITING ENZYMES BY MANUFACTURER

- 3.1 Global CRISPR-based Gene Editing Enzymes Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global CRISPR-based Gene Editing Enzymes Revenue by Manufacturer (2021-2026)
- 3.3 Global CRISPR-based Gene Editing Enzymes Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of CRISPR-based Gene Editing Enzymes by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 CRISPR-based Gene Editing Enzymes Manufacturer Market Share in 2025
 - 3.4.3 Top 6 CRISPR-based Gene Editing Enzymes Manufacturer Market Share in 2025
- 3.5 CRISPR-based Gene Editing Enzymes Market: Overall Company Footprint Analysis
 - 3.5.1 CRISPR-based Gene Editing Enzymes Market: Region Footprint
 - 3.5.2 CRISPR-based Gene Editing Enzymes Market: Company Product Type Footprint
 - 3.5.3 CRISPR-based Gene Editing Enzymes Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global CRISPR-based Gene Editing Enzymes Market Size by Region
 - 4.1.1 Global CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2021-2032)
 - 4.1.2 Global CRISPR-based Gene Editing Enzymes Consumption Value by Region (2021-2032)
 - 4.1.3 Global CRISPR-based Gene Editing Enzymes Average Price by Region

(2021-2032)

4.2 North America CRISPR-based Gene Editing Enzymes Consumption Value

(2021-2032)

4.3 Europe CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032)

4.4 Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value

(2021-2032)

4.5 South America CRISPR-based Gene Editing Enzymes Consumption Value

(2021-2032)

4.6 Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value

(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2032)

5.2 Global CRISPR-based Gene Editing Enzymes Consumption Value by Type

(2021-2032)

5.3 Global CRISPR-based Gene Editing Enzymes Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global CRISPR-based Gene Editing Enzymes Sales Quantity by Application

(2021-2032)

6.2 Global CRISPR-based Gene Editing Enzymes Consumption Value by Application

(2021-2032)

6.3 Global CRISPR-based Gene Editing Enzymes Average Price by Application

(2021-2032)

7 NORTH AMERICA

7.1 North America CRISPR-based Gene Editing Enzymes Sales Quantity by Type

(2021-2032)

7.2 North America CRISPR-based Gene Editing Enzymes Sales Quantity by Application

(2021-2032)

7.3 North America CRISPR-based Gene Editing Enzymes Market Size by Country

7.3.1 North America CRISPR-based Gene Editing Enzymes Sales Quantity by Country

(2021-2032)

7.3.2 North America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2032)

8.2 Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2032)

8.3 Europe CRISPR-based Gene Editing Enzymes Market Size by Country

8.3.1 Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2032)

8.3.2 Europe CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific CRISPR-based Gene Editing Enzymes Market Size by Region

9.3.1 Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2032)

10.2 South America CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2032)

10.3 South America CRISPR-based Gene Editing Enzymes Market Size by Country

10.3.1 South America CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2032)

10.3.2 South America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa CRISPR-based Gene Editing Enzymes Market Size by Country

11.3.1 Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 CRISPR-based Gene Editing Enzymes Market Drivers

12.2 CRISPR-based Gene Editing Enzymes Market Restraints

12.3 CRISPR-based Gene Editing Enzymes Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of CRISPR-based Gene Editing Enzymes and Key Manufacturers

13.2 Manufacturing Costs Percentage of CRISPR-based Gene Editing Enzymes

13.3 CRISPR-based Gene Editing Enzymes Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 CRISPR-based Gene Editing Enzymes Typical Distributors

14.3 CRISPR-based Gene Editing Enzymes Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global CRISPR-based Gene Editing Enzymes Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global CRISPR-based Gene Editing Enzymes Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 3. Global CRISPR-based Gene Editing Enzymes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 5. Thermo Fisher Scientific Major Business

Table 6. Thermo Fisher Scientific CRISPR-based Gene Editing Enzymes Product and Services

Table 7. Thermo Fisher Scientific CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Thermo Fisher Scientific Recent Developments/Updates

Table 9. Merck KGaA Basic Information, Manufacturing Base and Competitors

Table 10. Merck KGaA Major Business

Table 11. Merck KGaA CRISPR-based Gene Editing Enzymes Product and Services

Table 12. Merck KGaA CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Merck KGaA Recent Developments/Updates

Table 14. Integrated DNA Technologies (IDT) Basic Information, Manufacturing Base and Competitors

Table 15. Integrated DNA Technologies (IDT) Major Business

Table 16. Integrated DNA Technologies (IDT) CRISPR-based Gene Editing Enzymes Product and Services

Table 17. Integrated DNA Technologies (IDT) CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Integrated DNA Technologies (IDT) Recent Developments/Updates

Table 19. Takara Bio Basic Information, Manufacturing Base and Competitors

Table 20. Takara Bio Major Business

Table 21. Takara Bio CRISPR-based Gene Editing Enzymes Product and Services

Table 22. Takara Bio CRISPR-based Gene Editing Enzymes Sales Quantity (pmol),

Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Takara Bio Recent Developments/Updates

Table 24. New England Biolabs Basic Information, Manufacturing Base and Competitors

Table 25. New England Biolabs Major Business

Table 26. New England Biolabs CRISPR-based Gene Editing Enzymes Product and Services

Table 27. New England Biolabs CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. New England Biolabs Recent Developments/Updates

Table 29. GenScript Basic Information, Manufacturing Base and Competitors

Table 30. GenScript Major Business

Table 31. GenScript CRISPR-based Gene Editing Enzymes Product and Services

Table 32. GenScript CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. GenScript Recent Developments/Updates

Table 34. Aldevron Basic Information, Manufacturing Base and Competitors

Table 35. Aldevron Major Business

Table 36. Aldevron CRISPR-based Gene Editing Enzymes Product and Services

Table 37. Aldevron CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Aldevron Recent Developments/Updates

Table 39. TriLink Biotechnologies Basic Information, Manufacturing Base and Competitors

Table 40. TriLink Biotechnologies Major Business

Table 41. TriLink Biotechnologies CRISPR-based Gene Editing Enzymes Product and Services

Table 42. TriLink Biotechnologies CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. TriLink Biotechnologies Recent Developments/Updates

Table 44. Synthego Basic Information, Manufacturing Base and Competitors

Table 45. Synthego Major Business

Table 46. Synthego CRISPR-based Gene Editing Enzymes Product and Services

Table 47. Synthego CRISPR-based Gene Editing Enzymes Sales Quantity (pmol),

Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Synthego Recent Developments/Updates

Table 49. KACTUS Bio Basic Information, Manufacturing Base and Competitors

Table 50. KACTUS Bio Major Business

Table 51. KACTUS Bio CRISPR-based Gene Editing Enzymes Product and Services

Table 52. KACTUS Bio CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. KACTUS Bio Recent Developments/Updates

Table 54. Shandong Shunfeng Biotechnology Basic Information, Manufacturing Base and Competitors

Table 55. Shandong Shunfeng Biotechnology Major Business

Table 56. Shandong Shunfeng Biotechnology CRISPR-based Gene Editing Enzymes Product and Services

Table 57. Shandong Shunfeng Biotechnology CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Shandong Shunfeng Biotechnology Recent Developments/Updates

Table 59. Renman Biotechnology Basic Information, Manufacturing Base and Competitors

Table 60. Renman Biotechnology Major Business

Table 61. Renman Biotechnology CRISPR-based Gene Editing Enzymes Product and Services

Table 62. Renman Biotechnology CRISPR-based Gene Editing Enzymes Sales Quantity (pmol), Average Price (US\$/pmol), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Renman Biotechnology Recent Developments/Updates

Table 64. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Manufacturer (2021-2026) & (pmol)

Table 65. Global CRISPR-based Gene Editing Enzymes Revenue by Manufacturer (2021-2026) & (USD Million)

Table 66. Global CRISPR-based Gene Editing Enzymes Average Price by Manufacturer (2021-2026) & (US\$/pmol)

Table 67. Market Position of Manufacturers in CRISPR-based Gene Editing Enzymes, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 68. Head Office and CRISPR-based Gene Editing Enzymes Production Site of Key Manufacturer

Table 69. CRISPR-based Gene Editing Enzymes Market: Company Product Type

Footprint

Table 70. CRISPR-based Gene Editing Enzymes Market: Company Product Application Footprint

Table 71. CRISPR-based Gene Editing Enzymes New Market Entrants and Barriers to Market Entry

Table 72. CRISPR-based Gene Editing Enzymes Mergers, Acquisition, Agreements, and Collaborations

Table 73. Global CRISPR-based Gene Editing Enzymes Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 74. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2021-2026) & (pmol)

Table 75. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2027-2032) & (pmol)

Table 76. Global CRISPR-based Gene Editing Enzymes Consumption Value by Region (2021-2026) & (USD Million)

Table 77. Global CRISPR-based Gene Editing Enzymes Consumption Value by Region (2027-2032) & (USD Million)

Table 78. Global CRISPR-based Gene Editing Enzymes Average Price by Region (2021-2026) & (US\$/pmol)

Table 79. Global CRISPR-based Gene Editing Enzymes Average Price by Region (2027-2032) & (US\$/pmol)

Table 80. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2026) & (pmol)

Table 81. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 82. Global CRISPR-based Gene Editing Enzymes Consumption Value by Type (2021-2026) & (USD Million)

Table 83. Global CRISPR-based Gene Editing Enzymes Consumption Value by Type (2027-2032) & (USD Million)

Table 84. Global CRISPR-based Gene Editing Enzymes Average Price by Type (2021-2026) & (US\$/pmol)

Table 85. Global CRISPR-based Gene Editing Enzymes Average Price by Type (2027-2032) & (US\$/pmol)

Table 86. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 87. Global CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

Table 88. Global CRISPR-based Gene Editing Enzymes Consumption Value by Application (2021-2026) & (USD Million)

Table 89. Global CRISPR-based Gene Editing Enzymes Consumption Value by Application (2027-2032) & (USD Million)

Table 90. Global CRISPR-based Gene Editing Enzymes Average Price by Application (2021-2026) & (US\$/pmol)

Table 91. Global CRISPR-based Gene Editing Enzymes Average Price by Application (2027-2032) & (US\$/pmol)

Table 92. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2026) & (pmol)

Table 93. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 94. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 95. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

Table 96. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2026) & (pmol)

Table 97. North America CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2027-2032) & (pmol)

Table 98. North America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2026) & (USD Million)

Table 99. North America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2026) & (pmol)

Table 101. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 102. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 103. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

Table 104. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2026) & (pmol)

Table 105. Europe CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2027-2032) & (pmol)

Table 106. Europe CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2026) & (USD Million)

Table 107. Europe CRISPR-based Gene Editing Enzymes Consumption Value by Country (2027-2032) & (USD Million)

Table 108. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Type

(2021-2026) & (pmol)

Table 109. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 110. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 111. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

Table 112. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2021-2026) & (pmol)

Table 113. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity by Region (2027-2032) & (pmol)

Table 114. Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value by Region (2021-2026) & (USD Million)

Table 115. Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value by Region (2027-2032) & (USD Million)

Table 116. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2026) & (pmol)

Table 117. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 118. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 119. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

Table 120. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2026) & (pmol)

Table 121. South America CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2027-2032) & (pmol)

Table 122. South America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2026) & (USD Million)

Table 123. South America CRISPR-based Gene Editing Enzymes Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2021-2026) & (pmol)

Table 125. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Type (2027-2032) & (pmol)

Table 126. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2021-2026) & (pmol)

Table 127. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Application (2027-2032) & (pmol)

- Table 128. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2021-2026) & (pmol)
- Table 129. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity by Country (2027-2032) & (pmol)
- Table 130. Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value by Country (2021-2026) & (USD Million)
- Table 131. Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value by Country (2027-2032) & (USD Million)
- Table 132. CRISPR-based Gene Editing Enzymes Raw Material
- Table 133. Key Manufacturers of CRISPR-based Gene Editing Enzymes Raw Materials
- Table 134. CRISPR-based Gene Editing Enzymes Typical Distributors
- Table 135. CRISPR-based Gene Editing Enzymes Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. CRISPR-based Gene Editing Enzymes Picture
- Figure 2. Global CRISPR-based Gene Editing Enzymes Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global CRISPR-based Gene Editing Enzymes Revenue Market Share by Type in 2025
- Figure 4. CRISPR-Cas9 Examples
- Figure 5. CRISPR-Cas12a (Cpf1) Examples
- Figure 6. Base Editors (CBE & ABE) Examples
- Figure 7. Others Examples
- Figure 8. Global CRISPR-based Gene Editing Enzymes Revenue by Grade, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global CRISPR-based Gene Editing Enzymes Revenue Market Share by Grade in 2025
- Figure 10. Research Grade Examples
- Figure 11. GMP Grade Examples
- Figure 12. Global CRISPR-based Gene Editing Enzymes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global CRISPR-based Gene Editing Enzymes Revenue Market Share by Application in 2025
- Figure 14. Basic Research Examples
- Figure 15. Biomedicine Examples
- Figure 16. Agriculture Examples
- Figure 17. Others Examples
- Figure 18. Global CRISPR-based Gene Editing Enzymes Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 19. Global CRISPR-based Gene Editing Enzymes Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 20. Global CRISPR-based Gene Editing Enzymes Sales Quantity (2021-2032) & (pmol)
- Figure 21. Global CRISPR-based Gene Editing Enzymes Price (2021-2032) & (US\$/pmol)
- Figure 22. Global CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Manufacturer in 2025
- Figure 23. Global CRISPR-based Gene Editing Enzymes Revenue Market Share by Manufacturer in 2025

- Figure 24. Producer Shipments of CRISPR-based Gene Editing Enzymes by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 25. Top 3 CRISPR-based Gene Editing Enzymes Manufacturer (Revenue) Market Share in 2025
- Figure 26. Top 6 CRISPR-based Gene Editing Enzymes Manufacturer (Revenue) Market Share in 2025
- Figure 27. Global CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Region (2021-2032)
- Figure 28. Global CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Region (2021-2032)
- Figure 29. North America CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 30. Europe CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 31. Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 32. South America CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 33. Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 34. Global CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)
- Figure 35. Global CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Type (2021-2032)
- Figure 36. Global CRISPR-based Gene Editing Enzymes Average Price by Type (2021-2032) & (US\$/pmol)
- Figure 37. Global CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)
- Figure 38. Global CRISPR-based Gene Editing Enzymes Revenue Market Share by Application (2021-2032)
- Figure 39. Global CRISPR-based Gene Editing Enzymes Average Price by Application (2021-2032) & (US\$/pmol)
- Figure 40. North America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)
- Figure 41. North America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)
- Figure 42. North America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Country (2021-2032)
- Figure 43. North America CRISPR-based Gene Editing Enzymes Consumption Value

Market Share by Country (2021-2032)

Figure 44. United States CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 52. France CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Region (2021-2032)

Figure 60. China CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)

- Figure 63. India CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 64. Southeast Asia CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 65. Australia CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 66. South America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)
- Figure 67. South America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)
- Figure 68. South America CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Country (2021-2032)
- Figure 69. South America CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Country (2021-2032)
- Figure 70. Brazil CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 71. Argentina CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 72. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Type (2021-2032)
- Figure 73. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Application (2021-2032)
- Figure 74. Middle East & Africa CRISPR-based Gene Editing Enzymes Sales Quantity Market Share by Country (2021-2032)
- Figure 75. Middle East & Africa CRISPR-based Gene Editing Enzymes Consumption Value Market Share by Country (2021-2032)
- Figure 76. Turkey CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 77. Egypt CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 78. Saudi Arabia CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 79. South Africa CRISPR-based Gene Editing Enzymes Consumption Value (2021-2032) & (USD Million)
- Figure 80. CRISPR-based Gene Editing Enzymes Market Drivers
- Figure 81. CRISPR-based Gene Editing Enzymes Market Restraints
- Figure 82. CRISPR-based Gene Editing Enzymes Market Trends
- Figure 83. Porters Five Forces Analysis
- Figure 84. Manufacturing Cost Structure Analysis of CRISPR-based Gene Editing

Enzymes in 2025

Figure 85. Manufacturing Process Analysis of CRISPR-based Gene Editing Enzymes

Figure 86. CRISPR-based Gene Editing Enzymes Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

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