

# Global Biomedical CRISPR Gene Editing Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Biomedical CRISPR Gene Editing market size was valued at US\$ 3601 million in 2024 and is forecast to a readjusted size of USD 7842 million by 2031 with a CAGR of 11.7% during review period.

CRISPR gene editing technology is a gene editing tool based on the natural immune system of bacteria. It achieves precise cutting, insertion, or modification of specific DNA sequences by binding Cas proteins (such as Cas9, Cas12a, Cas3, Cas13, etc.) with guide RNA (gRNA). In the biomedical field, CRISPR gene editing is widely used in gene therapy, disease diagnosis, drug development, regenerative medicine, and other fields.

In recent years, the market size of biomedical CRISPR gene editing has been continuously growing. The main driving factors include the increasing demand for cancer treatment, commercialization of gene therapy, advances in CRISPR gene editing technology, and policy support from governments around the world. From a regional distribution perspective, North America holds the largest share of the global market, while the Asia Pacific region has the fastest market growth, especially in China. The European region continues to grow under strict regulation, especially in Germany and the UK, with a focus on cancer and regenerative medicine. The main participating companies in the market include international companies such as CRISPR Therapeutics, Editas Medicine, Intellia Therapeutics, Caribou Biosciences, as well as domestic companies such as GemPharmatech and Shanghai Model Organisms. In the biomedical field, gene therapy is the main application scenario of CRISPR gene editing. The main challenges currently facing the industry include technological bottlenecks, ethical and regulatory issues. Off target effects, low delivery system efficiency, and

differences in relevant policies among countries have to some extent limited the application of CRISPR gene editing. Meanwhile, some emerging technological directions such as base editing and epigenome editing have also provided new research entry points for the industry. In short, the application of CRISPR gene editing in the biomedical field is rapidly moving from the laboratory to clinical practice, and the market size is continuously expanding driven by treatment demand and technological innovation. In the future, it is necessary to break through technological limitations and balance ethical regulation to unleash greater commercial value.

This report is a detailed and comprehensive analysis for global Biomedical CRISPR Gene Editing 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 Biomedical CRISPR Gene Editing market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Biomedical CRISPR Gene Editing market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Biomedical CRISPR Gene Editing market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Biomedical CRISPR Gene Editing market shares of main players, in revenue (\$ Million), 2020-2025

### **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 Biomedical CRISPR Gene Editing
- 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 Biomedical CRISPR Gene Editing 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 CRISPR Therapeutics, Editas Medicine, Intellia Therapeutics, Caribou Biosciences, Cellectis, Regeneron Pharmaceuticals, Beam Therapeutics, Sangamo Therapeutics, Invitae, Thermo Fisher Scientific, etc.

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

### Market segmentation

Biomedical CRISPR Gene Editing market is split by Type and by Application. For the period 2020-2031, 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

CRISPR-Cas9

CRISPR-Cas12a

CRISPR-Cas3

CRISPR-Cas13

Prime Editing

Others

### Market segment by Application

Gene Therapy

Disease Diagnosis

Drug Development

Regenerative Medicine

Others

Market segment by players, this report covers

CRISPR Therapeutics

Editas Medicine

Intellia Therapeutics

Caribou Biosciences

Collectis

Regeneron Pharmaceuticals

Beam Therapeutics

Sangamo Therapeutics

Invitae

Thermo Fisher Scientific

Merck

GemPharmatech

Shanghai Model Organisms

Vazyme Biotech

Biocytogen

Genemagic Bioscience

HuidaGene

BRL Medicine

ReforGene Medicine

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 Biomedical CRISPR Gene Editing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Biomedical CRISPR Gene Editing, with revenue, gross margin, and global market share of Biomedical CRISPR Gene Editing from 2020 to 2025.

Chapter 3, the Biomedical CRISPR Gene Editing 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 2020 to 2031

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 2020 to 2025. and Biomedical CRISPR Gene Editing market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Biomedical

CRISPR Gene Editing.

Chapter 13, to describe Biomedical CRISPR Gene Editing research findings and conclusion.

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