

# Global CRISPR And CRISPR-Associated Genes Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global CRISPR And CRISPR-Associated Genes market size was valued at USD 1424.5 million in 2023 and is forecast to a readjusted size of USD 1794 million by 2030 with a CAGR of 3.3% during review period.

This report studies the CRISPR And CRISPR-Associated (Cas) Genes market.

Clustered regularly interspaced short palindromic repeats (CRISPR) are segments of prokaryotic DNA containing short repetitions of base sequences. Each repetition is followed by short segments of 'spacer DNA' from previous exposures to a bacteriophage virus or plasmid.

The CRISPR/Cas system is a prokaryotic immune system that confers resistance to foreign genetic elements such as those present within plasmids and phages, and provides a form of acquired immunity. CRISPR associated proteins (Cas) use the CRISPR spacers to recognize and cut these exogenous genetic elements in a manner analogous to RNA interference in eukaryotic organisms. CRISPRs are found in approximately 40% of sequenced bacterial genomes and 90% of sequenced archaea.

Cas9 was the first nuclease discovered, followed by Cpf1, which was discovered in the CRISPR/Cpf1 system of *Francisella novicida*. Other such systems are thought to exist. CRISPR/Edits Medicinec2 from the bacterium *Leptotrichia shahii* is RNA-guided CRISPR system that targets RNA rather than DNA, and can either cleave single-stranded RNA targets or knock them down.

By delivering the Cas9 nuclease complexed with a synthetic guide RNA (gRNA) into a cell, the cell's genome can be cut at a desired location, allowing existing genes to be removed and/or new ones added. The Cas9-gRNA complex corresponds with the CAS III crRNA complex in the above diagram. CRISPR/Cas genome editing techniques have many potential applications, including altering the germline of humans, animals, and food crops. The use of CRISPR Cas9-gRNA complex for genome editing was the AAAS's choice for breakthrough of the year in 2015. Bioethical concerns have been expressed about the prospect of using this nascent biotechnology for editing the human germline.

Thermo Fisher Scientific, Editas Medicine, Caribou Biosciences, CRISPR therapeutics and Intellia therapeutics, Inc. are the top 5 players of CRISPR and CRISPR-Associated (Cas) Genes, with about 63% market shares.

CRISPR And CRISPR-Associated (Cas) Genes industry is relatively concentrated, manufacturers are mostly in the Europe and North America. Among them, North America region accounted for more than 45% of the total market of global CRISPR And CRISPR-Associated (Cas) Genes.

The Global Info Research report includes an overview of the development of the CRISPR And CRISPR-Associated Genes industry chain, the market status of Biotechnology Companies (Genome Editing, Genetic Engineering), Pharmaceutical Companies (Genome Editing, Genetic Engineering), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of CRISPR And CRISPR-Associated Genes.

Regionally, the report analyzes the CRISPR And CRISPR-Associated Genes markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global CRISPR And CRISPR-Associated Genes market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the CRISPR And CRISPR-Associated Genes market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the CRISPR And CRISPR-Associated Genes industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Genome Editing, Genetic Engineering).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the CRISPR And CRISPR-Associated Genes market.

**Regional Analysis:** The report involves examining the CRISPR And CRISPR-Associated Genes market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the CRISPR And CRISPR-Associated Genes market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to CRISPR And CRISPR-Associated Genes:

**Company Analysis:** Report covers individual CRISPR And CRISPR-Associated Genes players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards CRISPR And CRISPR-Associated Genes This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Biotechnology Companies, Pharmaceutical Companies).

**Technology Analysis:** Report covers specific technologies relevant to CRISPR And CRISPR-Associated Genes. It assesses the current state, advancements, and potential future developments in CRISPR And CRISPR-Associated Genes areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the CRISPR And CRISPR-Associated Genes market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

### Market Segmentation

CRISPR And CRISPR-Associated Genes market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

### Market segment by Type

Genome Editing

Genetic Engineering

GRNA Database/Gene Librar

CRISPR Plasmid

Human Stem Cells

Genetically Modified Organisms/Crops

Cell Line Engineering

### Market segment by Application

Biotechnology Companies

Pharmaceutical Companies

Academic Institutes

Research and Development Institutes

Market segment by players, this report covers

Thermo Fisher Scientific

Editas Medicine

Caribou Biosciences

CRISPR therapeutics

Intellia therapeutics, Inc.

Collectis

Horizon Discovery Plc

Sigma Aldrich

Precision Biosciences

Genscript

Sangamo Biosciences Inc.

Lonza Group Limited

Integrated DNA Technologies

New England Biolabs

Origene Technologies

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, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and 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 CRISPR And CRISPR-Associated Genes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CRISPR And CRISPR-Associated Genes, with revenue, gross margin and global market share of CRISPR And CRISPR-Associated Genes from 2019 to 2024.

Chapter 3, the CRISPR And CRISPR-Associated Genes 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 application, with consumption value and growth rate by Type, application, from 2019 to 2030.

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 2019 to 2024. and CRISPR And CRISPR-Associated Genes market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of CRISPR And CRISPR-Associated Genes.

Chapter 13, to describe CRISPR And CRISPR-Associated Genes research findings and

conclusion.

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