

# Global CRISPR and CRISPR-Associated (Cas) Genes Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/G9EDE8AE08FCEN.html>

Date: April 2024

Pages: 199

Price: US\$ 3,950.00 (Single User License)

ID: G9EDE8AE08FCEN

## Abstracts

### Summary

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 Medicin2 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.

According to APO Research, The global CRISPR and CRISPR-Associated (Cas) Genes market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for CRISPR and CRISPR-Associated (Cas) Genes is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for CRISPR and CRISPR-Associated (Cas) Genes is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for CRISPR and CRISPR-Associated (Cas) Genes is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for CRISPR and CRISPR-Associated (Cas) Genes is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global companies of CRISPR and CRISPR-Associated (Cas) Genes include Thermo Fisher Scientific, Editas Medicine, Caribou Biosciences, CRISPR therapeutics, Intellia therapeutics, Inc., Celectis, Horizon Discovery Plc, Sigma Aldrich and Precision Biosciences, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

## Report Includes

This report presents an overview of global market for CRISPR and CRISPR-Associated (Cas) Genes, market size. Analyses of the global market trends, with historic market revenue data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of CRISPR and CRISPR-Associated (Cas) Genes, also provides the revenue of main regions and countries. Of the upcoming market potential for CRISPR and CRISPR-Associated (Cas) Genes, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the CRISPR and CRISPR-Associated (Cas) Genes revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global CRISPR and CRISPR-Associated (Cas) Genes market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, revenue, and growth rate, from 2019 to 2030. Evaluation and forecast the market size for CRISPR and CRISPR-Associated (Cas) Genes revenue, projected growth trends, production technology, application and end-user industry.

#### CRISPR and CRISPR-Associated (Cas) Genes segment by Company

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

#### CRISPR and CRISPR-Associated (Cas) Genes segment by Type

Genome Editing

Genetic engineering

gRNA Database/Gene Librar

CRISPR Plasmid

Human Stem Cells

Genetically Modified Organisms/Crops

Cell Line Engineering

#### CRISPR and CRISPR-Associated (Cas) Genes segment by Application

Biotechnology Companies

Pharmaceutical Companies

Academic Institutes

Research and Development Institutes

## CRISPR and CRISPR-Associated (Cas) Genes segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product

launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global CRISPR and CRISPR-Associated (Cas) Genes market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of CRISPR and CRISPR-Associated (Cas) Genes and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of CRISPR and CRISPR-Associated (Cas) Genes.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

### Chapter Outline

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (product type, application, etc), including the market size of each market segment, future development potential, and so on. Revenue of CRISPR and CRISPR-Associated (Cas) Genes in global and regional level. It provides a quantitative

analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global CRISPR and CRISPR-Associated (Cas) Genes industry.

Chapter 3: Detailed analysis of CRISPR and CRISPR-Associated (Cas) Genes companies' competitive landscape, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the revenue, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the revenue, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key companies, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, CRISPR and CRISPR-Associated (Cas) Genes revenue, gross margin, and recent development, etc.

Chapter 7: North America (US & Canada) by type, by application and by country, revenue for each segment.

Chapter 8: Europe by type, by application and by country, revenue for each segment.

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