

Global CRISPR and CRISPR-Associated (Cas) Genes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CRISPR and CRISPR-Associated (Cas) Genes market size is expected to reach \$ 20810 million by 2032, rising at a market growth of 31.2% CAGR during the forecast period (2026-2032).

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 Medicines2 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.

This report studies the global CRISPR and CRISPR-Associated (Cas) Genes demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for CRISPR and CRISPR-Associated (Cas) Genes, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CRISPR and CRISPR-Associated (Cas) Genes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CRISPR and CRISPR-Associated (Cas) Genes total market, 2021-2032, (USD Million)

Global CRISPR and CRISPR-Associated (Cas) Genes total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: CRISPR and CRISPR-Associated (Cas) Genes total market, key domestic companies, and share, (USD Million)

Global CRISPR and CRISPR-Associated (Cas) Genes revenue by player, revenue and

market share 2021-2026, (USD Million)

Global CRISPR and CRISPR-Associated (Cas) Genes total market by Type, CAGR, 2021-2032, (USD Million)

Global CRISPR and CRISPR-Associated (Cas) Genes total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global CRISPR and CRISPR-Associated (Cas) Genes 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 Thermo Fisher Scientific, Editas Medicine, Caribou Biosciences, CRISPR therapeutics, Intellia therapeutics, Inc., Collectis, Horizon Discovery Plc, Sigma Aldrich, Precision Biosciences, Genscript, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world CRISPR and CRISPR-Associated (Cas) Genes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CRISPR and CRISPR-Associated (Cas) Genes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CRISPR and CRISPR-Associated (Cas) Genes Market, Segmentation by Type:

Genome Editing

Genetic engineering

gRNA Database/Gene Librar

CRISPR Plasmid

Human Stem Cells

Genetically Modified Organisms/Crops

Cell Line Engineering

Global CRISPR and CRISPR-Associated (Cas) Genes Market, Segmentation by Application:

Biotechnology Companies

Pharmaceutical Companies

Academic Institutes

Research and Development Institutes

Companies Profiled:

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

Key Questions Answered

1. How big is the global CRISPR and CRISPR-Associated (Cas) Genes market?
2. What is the demand of the global CRISPR and CRISPR-Associated (Cas) Genes market?
3. What is the year over year growth of the global CRISPR and CRISPR-Associated (Cas) Genes market?
4. What is the total value of the global CRISPR and CRISPR-Associated (Cas) Genes

market?

5. Who are the Major Players in the global CRISPR and CRISPR-Associated (Cas) Genes market?

6. What are the growth factors driving the market demand?

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