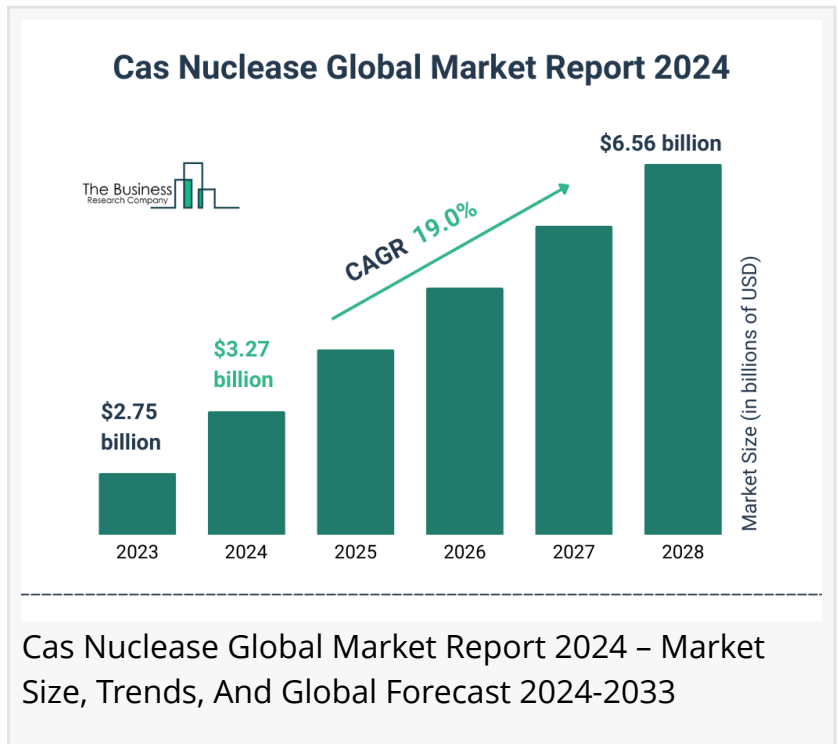


# Increased Investment in Biotechnology: A Key Driver Transforming the Cas Nuclease Market 2024

*The Business Research Company's Increased Investment in Biotechnology: A Key Driver Transforming the Cas Nuclease Market 2024*

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The Cas nuclease market is on an upward trajectory, forecasted to grow from \$2.75 billion in 2023 to \$3.27 billion in 2024, at a CAGR of 18.9%. Key drivers include the rapid advancements in genome editing technologies, increasing biotechnology research funding, and the rising demand for personalized medicine.



What Is the Estimated Growth Rate and Market Size of the Global Cas Nuclease Market?

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It will grow to \$6.56 billion in 2028 at a compound annual growth rate (CAGR) of 19.0%.”

*The Business Research Company*

The market is projected to reach \$6.56 billion by 2028, growing at a rapid CAGR of 19.0%. Growth is driven by rising investment in gene-editing technologies, growing demand for therapeutic genome editing, regulatory approvals for gene therapies, and expanding interest in epigenome editing. Trends include the use of CRISPR for rare disease treatment, advances in agricultural gene editing, and growing interest in synthetic RNA-guided nucleases.

Access Key Market Data and Trends with a Free Sample Report on the Global Cas Nuclease Market:

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What Are The Significant Drivers Behind The Growth Of The Cas Nuclease Market?

Rising investment in biotechnology is expected to drive the growth of the market. Cas nucleases are integral to gene-editing technologies, advancing research in medical treatments and agriculture. In August 2024, the UK Bioindustry Association reported that the UK's life sciences sector raised \$2.61 billion in the first half of the year, further accelerating the development of gene-editing technologies and contributing to growth in the market.

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Which Top Companies Are Shaping The Growth Of The Cas Nuclease Market?

Major companies operating in the market are Thermo Fisher Scientific Inc., AstraZeneca PLC, Merck KGaA, Vertex Pharmaceuticals, Agilent Technologies Inc., Bio-Rad Laboratories Inc., Promega Corporation, GenScript Biotech Corporation, CRISPR Therapeutics AG, Integrated DNA Technologies Inc., Takara Bio Inc., New England Biolabs Inc., Horizon Discovery Group plc, OriGene Technologies Inc., Applied Biological Materials Inc. (ABM), Synthego Corporation, Novoprotein Scientific Inc., genOway, Precision BioSciences, Editas Medicine, Creative Biolabs, Collectis, Caribou Biosciences, Addgene

Which Emerging Trends Are Reshaping the Cas Nuclease Market Size?

In the market, Vertex Pharmaceuticals, in collaboration with CRISPR Therapeutics, received regulatory approval in November 2023 for CASGEVY, the first-ever CRISPR-based gene therapy for sickle cell disease and transfusion-dependent beta-thalassemia. This approval marks a major step forward for gene-editing therapies, offering new treatment options for genetic blood disorders.

What Are The Segments In The Global Cas Nuclease Market?

The cas nuclease market covered in this report is segmented –

- 1) By Type: Cas9, Cas12, Cas13, Other Cas Nucleases
- 2) By Delivery Method: Viral Vectors, Lipid Nanoparticles, Electroporation, Microinjection, Transposons
- 3) By Distribution Channel: Direct Sales, Distributor
- 4) By Application: Gene Editing Cell Line Construction, Animal Models, Bioagriculture, Gene Therapy, Other Applications
- 5) By End-User: Academic And Government Research Institutions, Biotechnology And Pharmaceutical Companies, Contract Research Organizations (CROS), Agricultural Biotechnology Companies, Other End-Users

## North America: Largest Region in the Cas Nuclease Market

North America was the largest region in the market in 2023. Asia-Pacific is expected to be the fastest-growing region in the forecast period. The regions covered in the market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

### Cas Nuclease Market Definition

Cas nuclease is an enzyme derived from the CRISPR system, capable of making precise cuts in specific DNA sequences. It is a key tool in genome editing, enabling scientists to correct genetic mutations, create genetically modified organisms, and develop targeted therapies for genetic disorders.

The Cas Nuclease Global Market Report 2024 from The Business Research Company includes the following key information:

- Market size data for both historical and future periods
- Analysis of both macro and microeconomic factors that have impacted the market over the past five years
- Regional market analysis covering Asia-Pacific, China, Western Europe, Eastern Europe, North America, the USA, South America, and the Middle East and Africa
- Country-specific market analysis for Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, the UK, and the USA.

### Overview of the Global Cas Nuclease Market Report: Trends, Opportunities, Strategies, and More

The Cas Nuclease Global Market Report 2024 from The Business Research Company is an extensive resource that delivers insights into cas nuclease market size, cas nuclease market drivers and trends, cas nuclease market major players, cas nuclease competitors' revenues, cas nuclease market positioning, and [cas nuclease market growth](#) across geographies. This report provides valuable in-depth insights into potential opportunities and strategies. Companies can utilize the information presented to target segments with the greatest growth potential.

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