

CRISPR Market by Product (Enzymes, Kits, Libraries), Services (gRNA design, Cell Line Engineering, Screening), Application (Drug Discovery & Development, Agriculture), End User (Pharma, Biotech, CROs, Research Institutes) - Global Forecast to 2028

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Abstracts

The CRISPR market is projected to reach USD 7.1 billion by 2028 from USD 3.4 billion in 2023, at a CAGR of 15.6% during the forecast period. The major factors driving the growth of the CRISPR market are the advancements and increasing demand gene editing technology, and rising funding and investment of government and private organizations is expected to propel the growth of the market. However, ethical and regulatory considerations are expected to restrain market growth to a certain extent.

The CRISPR market has been segmented based on product, application, end user, and region.

“By products & services, the products segment accounted for the largest share of the CRISPR market”

Based on products & services, the CRISPR market is categorized into products, and services. The products segment dominated the market in 2023, owing to rising demand for CRISPR products in gene editing technology domain. Along with this, advancements in delivery systems, increasing investment in gene editing research and the rising number of collaborations between academic institutions and pharmaceutical companies has led to a higher growth rate for products in the CRISPR market.

“By application, drug discovery & development segment accounted for the largest share in the CRISPR market”

Based on application, the CRISPR market is segmented into drug discovery and development, agriculture, and other applications. In 2023, the drug discovery & development segment accounted for a larger share of the CRISPR market. Growth in this market segment can be attributed to exceptional precision and efficiency offered by CRISPR-Cas9 in editing and manipulating genes. Along with this, growing demand for personalized medicine, and increased research and development activities in the field of CRISPR technology are contributing to its adoption in drug discovery and development.

“North America: the largest share of the CRISPR market”

North America accounted for the largest share of the CRISPR market. The large share of the North America region can be attributed to a well-established healthcare and biotechnology industry in the region, with advanced infrastructure, cutting-edge research institutions, and a strong ecosystem of biotechnology companies and CROs specializing in gene editing research. The presence of top academic institutions, and private companies in North America with dedicated gene editing research programs and expertise has contributed to the growth of the CRISPR market.

“Asia Pacific: The fastest-growing region in the CRISPR market.”

The Asia Pacific CRISPR market is projected to grow at the highest CAGR during the forecast period. This is attributed to increasing demand of personalized medicine, and advancements in sequencing technologies. Another key driver for the Asia Pacific CRISPR market is the region's large and rapidly increasing population.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 70% and Demand Side- 30%

By Designation: Executives - 55%, Research Scientists- 25%, and Managers - 20%

By Country: North America- 50%, Europe- 20%, Asia Pacific- 15%, Latin America - 10%, and Middle East Africa- 5%

Prominent Players

Thermo Fisher Scientific, Inc. (US)

Merck KGaA (Germany)

Agilent Technologies, Inc. (US)

Genscript Biotech Corporation (China)

CRISPR Therapeutics AG (Switzerland)

Editas Medicine (US)

Intellia Therapeutics, Inc. (US)

Beam Therapeutics Inc. (US)

Caribou Biosciences, Inc. (US)

Lonza Group, Ltd. (Switzerland)

Danaher Corporation (US)

PerkinElmer, Inc. (US)

Hera Biolabs (US)

OriGene Technologies, Inc. (US)

Collecta, Inc. (US)

Mammoth Biosciences, Inc. (US)

Applied StemCell (US)

New England Biolabs Inc. (US)

ToolGen Inc. (South Korea)

GeneCopoeia, Inc. (US)

Twist Bioscience Corporation (US)

Synthego Corporation (US)

eGenesis (US)

Inscripta, Inc. (US)

Precision BioSciences, Inc. (US)

Research Coverage:

This report provides a detailed picture of the CRISPR market. It aims at estimating the size and future growth potential of the market across different segments, such as the product & services (Products(CRISPR kits & enzymes, CRISPR libraries, and other products), and services (gRNA synthesis & cell line development, CRISPR screening & validation services, and other services)), application (drug discovery & development, agriculture, and other applications), and end user (pharmaceutical and biotechnology companies, academic and research institutes, and other applications) and region (North America, Europe, Asia Pacific, Latin America, and Middle East Africa). The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall CRISPR market and its segments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, trends, opportunities, and challenges.

The report provide insights on the following pointers:

Analysis of key drivers (growing demand for CRISPR-based gene therapies, growing advancements and adoptions of CRISPR technology, and growing investment and funding from the government for CRISPR technology), restraints (technical challenges associated with CRISPR technology), opportunities (development of new vaccine and treatment of genetic diseases), and challenges (regulatory hurdles for CRISPR advancements) influencing the growth of the CRISPR market.

Product Development/ Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the CRISPR market.

Market Development: Comprehensive information about lucrative markets- the report analyses the CRISPR market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the CRISPR market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Thermo Fisher Scientific, Inc. (US), Merck KGaA (Germany), Agilent Technologies, Inc. (US), Genscript Biotech Corporation (China) among others in the CRISPR market strategies. The report also helps stakeholders understand the pulse of the gene editing market and provides them information on key market drivers, restraints, challenges and opportunities.

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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