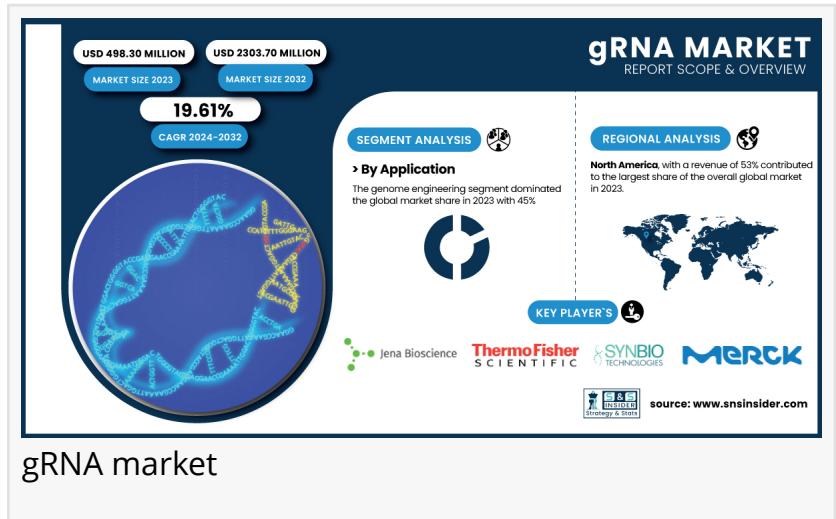


gRNA Market Size to Reach USD 2.3 Billion by 2032, Growing at 19.61% CAGR Amid Rising Genomic Investments

The increasing adoption of CRISPR-based gene-editing technologies and significant funding in genomics are driving the global gRNA market growth.

AUSTIN, TX, UNITED STATES, February 6, 2025 /EINPresswire.com/ --

According to Research by SNS Insider, The global [gRNA market](#) size was valued at USD 498.30 million in 2023 and is expected to reach USD 2,303.70 million by 2032, growing at a robust CAGR of 19.61% during the forecast period from 2024 to 2032. Increasing applications in genome engineering, demand for personalized therapies, and rising investments in genetic research are factors propelling this market growth.



gRNA market

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Key Players in gRNA Market

- Jena Bioscience GmbH
- Thermo Fisher Scientific Inc.
- Synbio Technologies
- Merck KGaA
- Takara Bio Inc.
- Horizon Discovery Ltd.
- Agilent Technologies Inc.
- System Biosciences LLC.
- Synthego
- GENEWIZ (Azenta Life Sciences)

By Type, in 2023, the research-use segment held the dominant share in the gRNA market, accounting for 65%.

This dominance can be attributed to gRNA's extensive application in basic research and academic studies, where it plays a critical role in the development of gene-editing tools, such as CRISPR. The growth of this segment is further driven by the expanding applications of genome editing in various areas like functional genomics and drug discovery. However, the GMP-grade segment is likely to witness the highest CAGR owing to the increased adoption of this segment in clinics to formulate gene therapies and personalized medicine.

By Application, the genome engineering segment held the largest market share in 2023, representing 45% of the global gRNA market.

The leading position of this segment is anticipated to be retained during the forecast period, driven by the ever-increasing adoption of genome editing technologies, mainly CRISPR-based systems, for research and therapeutic purposes. Genome engineering remains at the heart of applications in disease modeling, functional genomics, and therapeutic genome editing and, therefore, is an important area of interest for both the academic and pharmaceutical sectors. Another sector in this line of business, which will undergo tremendous development, includes gene-editing technology due to its constant advancements.

By End-Use, the pharmaceutical and biotechnology companies segment captured the largest share of the gRNA market in 2023

These sectors are pioneers in developing novel gene therapies and new techniques for genome engineering. Research centers from academia are another very significant market as these drive innovations and advancements in technology to work in the field of genome engineering. The growing dependence of gene therapy manufacturers on CMOs and CROs supports the increased use of gRNA in a multitude of clinical applications.

gRNA Market Segmentation

By Type

- Research-Use
- GMP-grade

By Application

- Genome Engineering
- Disease Model Studies
- Functional Genomics
- Epigenetics
- Others

By End Use

- Pharmaceutical & Biotechnology Companies

- Academic Research Institutes
- CMOs & CROs

North America accounted for 53% of the global gRNA market in 2023, maintaining its position as the largest market for gRNA.

This region is characterized by a well-established healthcare infrastructure, high investments in research, and a favorable regulatory environment that supports the development of cutting-edge gene-editing technologies. North America has a strong presence in the pharmaceutical and biotechnology industries, along with its leadership in scientific innovation, which has driven the adoption of gRNA in both research and therapeutic applications.

The Asia-Pacific is the fastest gRNA market, with growth coming from an increase in developing biotechnology and pharmaceutical industries through China, India, and Japan. Growth drivers include the government's push to enhance their research in the field of biotechnology and enhance healthcare innovation by introducing gene-based therapies and precision medicine.

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