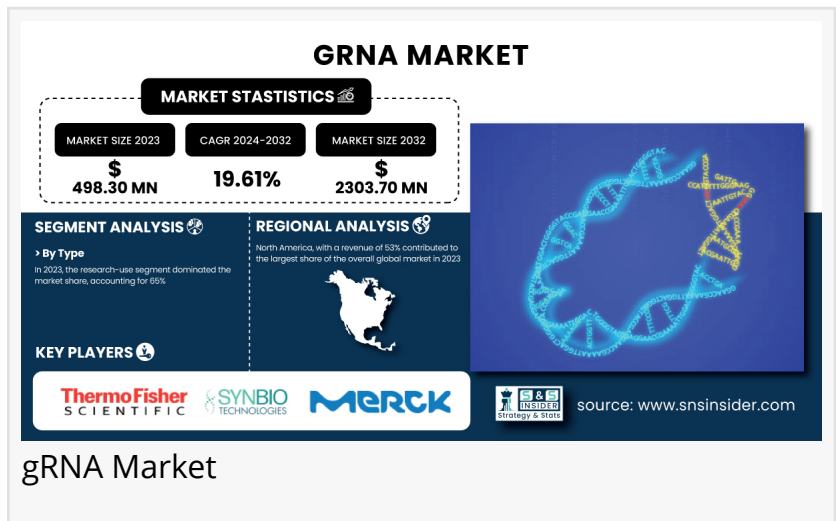


# gRNA Market Size to Reach USD 2,303.7M by 2032 | 19.61% CAGR (2024-2032)

*gRNA Market Witnessing Rapid Growth, Fueled by Advancements in Genome Engineering and Rising Demand for GMP-Grade Products.*

AUSTIN, TX, UNITED STATES, February 27, 2025 /EINPresswire.com/ --

According to Research by SNS Insider, The [gRNA Market](#) was valued at USD 498.30M in 2023. Projected to hit USD 2,303.70M by 2032, growing at 19.61% CAGR from 2024 to 2032.



The rapid growth of the gRNA market is primarily driven by increasing applications in gene editing, advancements in CRISPR technology, and growing research and development investments in biotechnology and pharmaceuticals.

## 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)

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## Segmentation Insights

By Type, the research-use segment led the gRNA market in 2023, capturing 65% of the total

market share.

This dominance is due to the extensive use of CRISPR-based genome editing technologies in industrial and academic research. Scientists are increasingly using gRNA for functional genomics, gene expression analysis, and disease modeling, further driving the segment's growth.

During the same time, the GMP-grade segment is anticipated to register the highest growth during the forecast period. Increasing demand for gene therapies and cell-based therapies and regulatory demands for clinical use are driving the uptake of GMP-grade gRNA. Pharmaceutical firms and biotech organizations are concentrating on high-purity and scalable manufacturing of gRNA to cater to the increasing demand from clinical trials and therapeutic purposes.

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

This leadership is a result of the growing application of CRISPR-based gene editing for agricultural enhancement, genetic disease study, and drug discovery. The capacity to accurately modify DNA sequences has transformed the biomedical and agricultural industries, spurring ongoing investment in genome engineering applications.

The genome engineering segment is also predicted to experience the highest growth throughout the forecast period. The broadening applicability of gene therapy, in combination with increased GMO and personalized medicine demand, is driving adoption forward. Synthetic biology advancements and gene-editing innovation are further fueling the segment's positive direction.

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Regional Analysis: North America led the gRNA market in 2023, accounting for 53% of the global market share.

The dominance of the region is fueled by major investments in biotechnology research, the presence of leading market players, and an established regulatory framework to facilitate gene-editing applications. The United States, for example, remains the leader in CRISPR technology development, with top academic centers and biotech companies actively carrying out research and clinical trials.

Conversely, the Asia-Pacific market is projected to grow the fastest over the coming years. Boosting government funding for genomics research, developing biopharmaceutical industries, and growing interoperations between biotech companies and research institutions are driving growth. China, Japan, and South Korea are observing growth in the applications of gene editing, such as in agriculture, healthcare, and regenerative medicine, all adding to rapid market growth within the region.

With the increased use of gRNA in most industries, the market is destined to experience remarkable growth, leading to profitable prospects for players over the next few years.

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