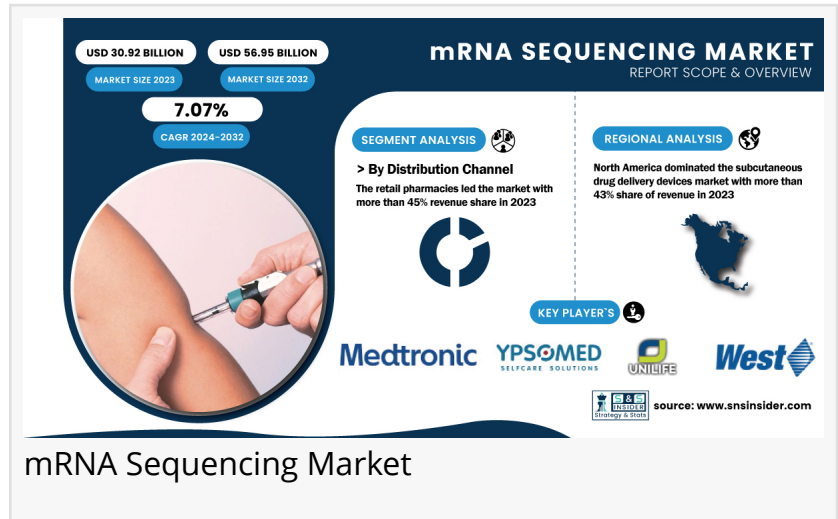


Global mRNA Sequencing Market size to surpass \$7.19 Billion by 2032, Growing at an 8.0% CAGR – SNS Insider Report

Technological advancements and increasing demand for early disease diagnostics drive growth in the mRNA sequencing market.

AUSTIN, TX, UNITED STATES, January 27, 2025 /EINPresswire.com/ -- According to Research by SNS Insider, The [mRNA Sequencing Market](#) was estimated at USD 3.6 billion in 2023 and is expected to reach USD 7.19 billion by 2032, at a CAGR of 8.0% during the forecast period of 2024-2032.



Technological Innovations and Rising Demand for Early Diagnostics Propel Growth of the mRNA Sequencing Market

The mRNA sequencing market is expected to witness substantial growth owing to the increase in the mapping of genomes and the development of advanced technologies for the examination of complex biological data. These technologies are crucial for public health research, allowing for detailed sequencing of pathogens—such as bacteria and viruses—and helping detect and treat infectious diseases and cancer at an earlier stage. As cancer, and other infectious diseases, are expected to increase, the market for sophisticated diagnostic solutions is on the rise. High-throughput mRNA sequencing provides a wealth of genetic and molecular information that aids early disease detection and tailoring of therapies to patients. Ground-breaking technological progression paves access to variability by enabling portable and effective sequencers like GenapSys' GENIUS device, which improves accuracy, accessibility, and affordability, and helps drive market growth. With increasing research investment and adaptation of personalized medicine, these advances are predicted to revolutionize genomics and precision healthcare.

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Key Players in mRNA Sequencing Market

- Solvay
- Kureha Corporation
- Toray Industries, Inc.
- Mitsubishi Chemical Holdings
- SGL Group
- Royal DSM
- Formosa Plastics Corporation
- Hexcel Corporation
- Evonik Industries
- Teijin Limited
- SABIC
- Takara Bio Inc.
- Illumina, Inc.
- QIAGEN
- F. Hoffmann-La Roche Ltd
- Quantabio
- Zymo Research Corporation
- base click GmbH
- Paragon Genomics, Inc.
- Yeasen Biotechnology (Shanghai) Co., Ltd.
- Novogene Co, Ltd
- Norgen Biotek Corp and other players

Segment Analysis

By Product & Service:

The platforms and consumables segment dominated the market in 2023, as they played an essential role in the sequencing process. As they continue to see strong demand for advanced platforms and consumables with clear assurances of accuracy and efficiency, this will further strengthen their position at the top of the market. Ongoing developments in sequencing technology, which eventually evolves into high-end platform capabilities and targeted consumables, keep this segment growing.

The RNA sequencing services segment witnessing the fastest growth due to the rapidly evolving primarily owing to the rising requirement of outsourcing among researchers and clinicians. The need for cost-effective, high-throughput sequencing solutions that do not require considerable in-house platform investment is one of the major reasons attributing the market growth. Service providers also foster this expansion by utilizing accessible, convenient solutions in conjunction with in-depth support and analysis.

By End-Use

The pharmaceutical and biotechnology companies segment dominated the market with 52% of the market share in 2023. Large companies dominate the market by driving the most sales and

revenues throughout the industry which leverage advanced sequencing technologies that provide the deepest insights into genetic targets and biomarkers.

The hospitals and clinics segment is anticipated to be the fastest-growing end-user segment, primarily due to the increasing adoption of mRNA sequencing in clinical diagnostics and patient management. A key driver of sequencing technology becoming more prevalent in medical settings is the increasing focus on precision medicine in these environments.

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mRNA Sequencing Market Segmentation

By Product & Service:

- Sample Preparation
- Application
- Method
- Sequencing Platforms & Consumables for RNA Sequencing
- RNA Sequencing Services
- Data Analysis, Storage, and Management

By Technology:

- Sequencing by Synthesis (SBS)
- Ion Semiconductor Sequencing
- Single-molecule Real-time (SMRT) Sequencing
- Nanopore Sequencing

By Application:

- De Novo Transcriptome Assembly
- Expression Profiling Analysis
- Variant Calling & Transcriptome Epigenetics
- Small RNA Sequencing

By End User:

- Research Centers and Academic & Government Institutes
- Hospitals & Clinics
- Pharmaceutical & Biotechnology Companies
- Others

Regional Analysis

North America dominated the market in 2023, accounting for 42% of market share. These factors include large government reimbursements for genomics and other funding initiatives, high prevalence of target diseases as well as ongoing innovations of RNA sequencing product offerings. Moreover, the significant investment in rare inherited diseases and cancer research

also helped the region capture the largest market share. Moreover, leading players such as Thermo Fisher Scientific, Illumina, and Agilent Technologies complement market expansion with their active developments.

Europe is the second-fastest growing region as the demand for cost-effective and rapid solutions to sequencing is increasing. The region's growth is driven by the increasing prevalence of hereditary diseases, the widening application of genomics in drug development, and the proliferation of mRNA sequencing. Germany is anticipated to be the leading market with a significant number of transfusion-related procedures, blood donation initiatives, and low infectious disease screening costs.

Recent Developments

- In May 2024, GenScript Biotech expanded its in vitro transcription (IVT) RNA synthesis offerings by adding self-amplifying RNA (saRNA). This enhancement supports various applications, including vaccine development, cancer immunotherapy, and gene therapy, reinforcing GenScript's position as a leader in RNA technology.
- In May 2023, Twist Bioscience launched a new suite of RNA sequencing tools, including the Twist RNA Exome, RNA Library Prep Kit, and Ribosomal RNA and Hemoglobin Depletion Kit. These products offer comprehensive workflows compatible with a diverse range of sample types, including challenging or low-quality samples.

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Table of Contents – Major Key Points

1. Introduction
2. Executive Summary
3. Research Methodology
4. Market Dynamics Impact Analysis
5. Statistical Insights and Trends Reporting
6. Competitive Landscape
7. mRNA Sequencing Market by Product & Service
8. mRNA Sequencing Market by Technology
9. mRNA Sequencing Market by Application
10. mRNA Sequencing Market by End User
11. Regional Analysis
12. Company Profiles
13. Use Cases and Best Practices
14. Conclusion

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