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Global NGS-based RNA-seq Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NGS-based RNA-seq market size is expected to reach $ 7957 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

The gross profit margin of major companies in the industry was approximately 45%–70%.

NGS-based RNA Sequencing is a molecular analysis technology that uses next-generation sequencing to identify, quantify, and characterize RNA molecules, enabling analysis of gene expression, transcript structures, and biological variation. Products and services mainly include RNA sequencing workflows, sequencing reagents, library preparation solutions, and sequencing services for scientific research, drug development, clinical research, biotechnology, agriculture, and precision medicine.

The industrial chain of NGS-based RNA Sequencing includes upstream sequencing reagents, library preparation materials, sequencing instruments, laboratory consumables, and bioinformatics technologies; midstream covers sample processing, library construction, sequencing, quality control, and data analysis; downstream applications mainly include academic research, pharmaceutical development, clinical research, biotechnology, agriculture, and precision medicine.

NGS-based RNA sequencing is a high-throughput molecular analysis approach that uses next-generation sequencing technologies to characterize RNA molecules, enabling comprehensive analysis of gene expression, transcript structures, alternative splicing, gene fusions, and other transcriptomic features. It is widely applied in basic biological research, oncology, drug discovery and development, biomarker research, precision medicine, and other life science applications. Compared with conventional targeted

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expression analysis methods, NGS-based RNA sequencing provides broader transcriptome coverage and greater capability to identify previously unknown transcripts and molecular changes. Market development is being driven by continued advances in sequencing platforms, library preparation, bioinformatics, and computational analysis, which are improving throughput, sensitivity, reproducibility, and workflow efficiency. Growing investment in genomics and transcriptomics research, expanding cancer and rare disease studies, increasing pharmaceutical research activity, and rising demand for precision medicine are supporting broader adoption. Important opportunities are emerging from single-cell and spatial transcriptomics, liquid biopsy research, clinical biomarker development, immune profiling, and integration of RNA sequencing with genomics, proteomics, and other multi-omics approaches. Increasing automation of sample preparation and data analysis may further improve accessibility across research and clinical laboratories. However, market development remains constrained by sequencing and computational costs, complex sample preparation, large data processing requirements, challenges in standardizing analytical workflows, and the need for specialized bioinformatics expertise. Clinical adoption also requires robust validation, reproducibility, and compliance with regulatory requirements. Continued improvements in sequencing efficiency, analytical software, automation, and cost effectiveness are expected to expand the role of NGS-based RNA sequencing in biomedical research and selected clinical applications.

Report Scope

This report studies the global NGS-based RNA-seq demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for NGS-based RNA-seq, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of NGS-based RNA-seq that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NGS-based RNA-seq total market, 2021-2032, (USD Million)

Global NGS-based RNA-seq total market by region & country, CAGR,

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2021-2032, (USD Million)

U.S. VS China: NGS-based RNA-seq total market, key domestic companies, and share, (USD Million)

Global NGS-based RNA-seq revenue by player, revenue and market share 2021-2026, (USD Million)

Global NGS-based RNA-seq total market by Type, CAGR, 2021-2032, (USD Million)

Global NGS-based RNA-seq total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global NGS-based RNA-seq market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Illumina, Inc., Thermo Fisher Scientific Inc., QIAGEN N.V., Takara Bio Inc., Azenta, Inc., Eurofins Scientific SE, BGI Americas Corporation, Macrogen, Inc., Ebiogen Inc., Theragen Bio Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world NGS-based RNA-seq market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global NGS-based RNA-seq Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global NGS-based RNA-seq Market, Segmentation by Type:

Whole Transcriptome Sequencing

Targeted RNA Sequencing

Small RNA Sequencing

Global NGS-based RNA-seq Market, Segmentation by Library Preparation Method:

Poly(A) Enrichment-based Sequencing

rRNA Depletion-based Sequencing

Capture and Amplicon-based Sequencing

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Global NGS-based RNA-seq Market, Segmentation by Sequencing Depth per Sample:

Low-depth(?20 Million Reads)

Medium-depth(>20–100 Million Reads)

High-depth(>100 Million Reads)

Global NGS-based RNA-seq Market, Segmentation by Application:

Gene Expression Profiling

Biomarker and Disease Research

Fusion, Splicing and Transcript Variant Analysis

Other

Companies Profiled:

Illumina, Inc.

Thermo Fisher Scientific Inc.

QIAGEN N.V.

Takara Bio Inc.

Azenta, Inc.

Eurofins Scientific SE

BGI Americas Corporation

Macrogen, Inc.

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Ebiogen Inc.

Theragen Bio Co., Ltd.

Psomagen, Inc.

GeneMotions Co., Ltd.

BGI Genomics Co., Ltd.

MGI Tech Co., Ltd.

Novogene Co., Ltd.

Annoroad Gene Technology Co., Ltd.

Shanghai OE Biotech Co., Ltd.

LC-Bio Technology Co., Ltd.

Guangzhou Gene Denovo Biotechnology Co., Ltd.

Biomarker Technologies Corporation

Berry Genomics Co., Ltd.

CapitalBio Technology Co., Ltd.

Key Questions Answered

1. How big is the global NGS-based RNA-seq market?
2. What is the demand of the global NGS-based RNA-seq market?
3. What is the year over year growth of the global NGS-based RNA-seq market?
4. What is the total value of the global NGS-based RNA-seq market?
5. Who are the Major Players in the global NGS-based RNA-seq market?
6. What are the growth factors driving the market demand?

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