

NGS based RNA sequencing Market Size, Trends, Analysis, and Outlook By Products and Services (Sample Preparation Products, RNA-sequencing Platforms and Consumables, RNA-sequencing Services, Data Analysis, Storage & Management), By Technology (Sequencing By Synthesis, Ion Semiconductor Sequencing, Single-molecule Real-time Sequencing, Nanopore Sequencing), By Application (Expression Profiling Analysis, Small RNA-sequencing, De Novo Transcriptome Assembly, Variant Calling and Transcriptome Epigenetics), By End-User (Research and Academia, Hospitals and Clinics, Pharmaceutical and Biotechnology Companies, Others), by Country, Segment, and Companies, 2024-2032

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Abstracts

The global NGS based RNA sequencing market size is poised to register 20.4% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global NGS based RNA sequencing market across By Products and Services (Sample Preparation Products, RNA-sequencing Platforms and Consumables, RNA-sequencing Services, Data Analysis, Storage & Management), By Technology (Sequencing By Synthesis, Ion Semiconductor Sequencing, Single-molecule Real-time Sequencing, Nanopore Sequencing), By

Application (Expression Profiling Analysis, Small RNA-sequencing, De Novo Transcriptome Assembly, Variant Calling and Transcriptome Epigenetics), By End-User (Research and Academia, Hospitals and Clinics, Pharmaceutical and Biotechnology Companies, Others)

The future of the NGS-based RNA sequencing market is driven by advancements in transcriptomics research, increasing understanding of gene expression regulation, and growing demand for high-throughput RNA profiling solutions. NGS-based RNA sequencing enables comprehensive analysis of the transcriptome, including mRNA, non-coding RNA, and splice variants, offering insights into gene expression dynamics, alternative splicing events, and RNA modifications in health and disease. With the rise of single-cell RNA sequencing, long-read sequencing, and spatial transcriptomics techniques, there is a growing interest in NGS-based RNA sequencing for unraveling the complexity of gene regulatory networks and identifying novel therapeutic targets. Further, technological innovations such as RNA capture methods, strand-specific library preparation kits, and computational algorithms are driving the development of next-generation RNA sequencing platforms with improved sensitivity, specificity, and coverage uniformity. Over the forecast period to 2030, expanding applications in developmental biology, cancer immunotherapy, and infectious disease research, coupled with increasing investments in RNA sequencing technologies and data analysis tools, are expected to drive market growth and innovation, enabling researchers and biopharmaceutical companies to accelerate scientific discoveries and drug development efforts.

NGS based RNA sequencing Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The NGS based RNA sequencing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of NGS based RNA sequencing survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the NGS based RNA sequencing industry.

Key market trends defining the global NGS based RNA sequencing demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic

and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

NGS based RNA sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The NGS based RNA sequencing industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support NGS based RNA sequencing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the NGS based RNA sequencing industry

Leading NGS based RNA sequencing companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 NGS based RNA sequencing companies.

NGS based RNA sequencing Market Study- Strategic Analysis Review

The NGS based RNA sequencing market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

NGS based RNA sequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The NGS based RNA sequencing industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios- low case, reference case, and high case scenarios.

NGS based RNA sequencing Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

North America NGS based RNA sequencing Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various NGS based RNA sequencing market segments. Similarly, Strong market demand is encouraging Canadian NGS based RNA sequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico NGS based RNA sequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe NGS based RNA sequencing Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European NGS

based RNA sequencing industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European NGS based RNA sequencing market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific NGS based RNA sequencing Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for NGS based RNA sequencing in Asia Pacific. In particular, China, India, and South East Asian NGS based RNA sequencing markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

Latin America NGS based RNA sequencing Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa NGS based RNA sequencing Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East NGS based RNA sequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for NGS based RNA sequencing.

NGS based RNA sequencing Market Company Profiles

The global NGS based RNA sequencing market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Agilent Technologies Inc, BGI Group, Eurofins Scientific SE, F. Hoffmann-La Roche AG, GENEWIZ LLC, Hamilton Company, Illumina Inc, Nugen Technologies Inc, Oxford Nanopore Technologies Ltd, Pacific Biosciences of California Inc, PerkinElmer Inc, Psomagen Inc, QIAGEN N.V., Takara Bio Inc, Thermo Fisher Scientific Inc.

Recent NGS based RNA sequencing Market Developments

The global NGS based RNA sequencing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

NGS based RNA sequencing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Products and Services

Sample Preparation Products

RNA-sequencing Platforms and Consumables

RNA-sequencing Services

Data Analysis

Storage & Management

By Technology

Sequencing By Synthesis

Ion Semiconductor Sequencing

Single-molecule Real-time Sequencing

Nanopore Sequencing

By Application

Expression Profiling Analysis

Small RNA-sequencing

De Novo Transcriptome Assembly

Variant Calling and Transcriptome Epigenetics

By End-User

Research and Academia

Hospitals and Clinics

Pharmaceutical and Biotechnology Companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Agilent Technologies Inc

BGI Group

Eurofins Scientific SE

F. Hoffmann-La Roche AG

GENEWIZ LLC

Hamilton Company

Illumina Inc

Nugen Technologies Inc

Oxford Nanopore Technologies Ltd

Pacific Biosciences of California Inc

PerkinElmer Inc

Psomagen Inc

QIAGEN N.V.

Takara Bio Inc

Thermo Fisher Scientific Inc

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Sequencing By Synthesis

Ion Semiconductor Sequencing

Single-molecule Real-time Sequencing

Nanopore Sequencing

By Application

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By End-User

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 - Eurofins Scientific SE
 - F. Hoffmann-La Roche AG
 - GENEWIZ LLC
 - Hamilton Company
 - Illumina Inc
 - Nugen Technologies Inc
 - Oxford Nanopore Technologies Ltd
 - Pacific Biosciences of California Inc

PerkinElmer Inc
Psomagen Inc
QIAGEN N.V.
Takara Bio Inc
Thermo Fisher Scientific Inc.

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