

Targeted DNA RNA Sequencing Market Size, Trends, Analysis, and Outlook By Technology (NGS By Method (Exome Sequencing, Enrichment Sequencing, Amplicon Sequencing), NGS By Application (Cancer Gene Sequencing, Inherited Disease Screening, Drug Development, Forensic Genomics, 16S ribosomal RNA (rRNA) sequencing, Others)), By Workflow (Pre-sequencing, Sequencing, Data Analysis), By Application (Human Biomedical Research, Plant & Animal Sciences, Drug Discovery, Others), By Type (DNA Based Targeted Sequencing, RNA Based Targeted Sequencing), By End-user (Academic Research, Hospitals & Clinics, Pharma & Biotech Entities, Others), by Region, Country, Segment, and Companies, 2024-2030

<https://marketpublishers.com/r/TC7B9E5339F4EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: TC7B9E5339F4EN

Abstracts

The global Targeted DNA RNA Sequencing market size is poised to register 14.65% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Targeted DNA RNA Sequencing market across By Technology (NGS By Method (Exome Sequencing, Enrichment Sequencing, Amplicon Sequencing), NGS By Application (Cancer Gene Sequencing, Inherited Disease Screening, Drug Development, Forensic Genomics, 16S ribosomal RNA (rRNA) sequencing, Others)), By Workflow (Pre-sequencing,

Sequencing, Data Analysis), By Application (Human Biomedical Research, Plant & Animal Sciences, Drug Discovery, Others), By Type (DNA Based Targeted Sequencing, RNA Based Targeted Sequencing), By End-user (Academic Research, Hospitals & Clinics, Pharma & Biotech Entities, Others).

The Targeted DNA RNA Sequencing Market is witnessing growth driven by increasing demand for precision medicine and personalized genomic profiling, rising adoption of next-generation sequencing (NGS) technologies in clinical diagnostics, and advancements in sequencing library preparation and bioinformatics analysis. Targeted DNA RNA sequencing enables the selective amplification and sequencing of specific genomic regions or gene panels for identifying genetic mutations, gene fusions, and expression patterns associated with disease pathology and therapeutic response. Key trends shaping its future include the development of multiplex PCR and hybridization capture assays for targeted enrichment of DNA RNA targets with high specificity and sensitivity, integration of automated and miniaturized sequencing workflows for rapid and cost-effective sample processing, and customization of sequencing panels and bioinformatics pipelines for diverse research and clinical applications. Additionally, increasing investment in genomic medicine initiatives and precision oncology programs, expansion of molecular diagnostic laboratories and sequencing core facilities, and regulatory approvals for new targeted sequencing assays contribute to market expansion.

Targeted DNA 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 Targeted DNA RNA Sequencing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Targeted DNA 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 Targeted DNA RNA Sequencing industry.

Key market trends defining the global Targeted DNA 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.

Targeted DNA RNA Sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Targeted DNA 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 Targeted DNA 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 Targeted DNA RNA Sequencing industry

Leading Targeted DNA 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 Targeted DNA RNA Sequencing companies.

Targeted DNA RNA Sequencing Market Study- Strategic Analysis Review

The Targeted DNA 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.

Targeted DNA RNA Sequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Targeted DNA 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 2030 in three case scenarios- low case, reference case, and high case scenarios.

Targeted DNA RNA Sequencing Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. 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 2030.

North America Targeted DNA 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 end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Targeted DNA RNA Sequencing market segments. Similarly, Strong end-user demand is encouraging Canadian Targeted DNA RNA Sequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Targeted DNA RNA Sequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Targeted DNA 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

Targeted DNA 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 businesses in identifying and leveraging new growth prospects positions the European Targeted DNA 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 Targeted DNA 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 Targeted DNA RNA Sequencing in Asia Pacific. In particular, China, India, and South East Asian Targeted DNA RNA Sequencing markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers 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 markets in the region.

Latin America Targeted DNA 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 Targeted DNA 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 Targeted DNA RNA Sequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the

demand for Targeted DNA RNA Sequencing.

Targeted DNA RNA Sequencing Market Company Profiles

The global Targeted DNA 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, ArcherDX Inc, BGI Group, Illumina Inc, Oxford Nanopore Technologies Ltd, Pacific Biosciences of California Inc, PerkinElmer Inc, QIAGEN N.V., Roche Holding AG, Thermo Fisher Scientific Inc

Recent Targeted DNA RNA Sequencing Market Developments

The global Targeted DNA 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.

Targeted DNA RNA Sequencing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (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 Technology

NGS By Method

-Exome Sequencing

-Enrichment Sequencing

-Amplicon Sequencing

NGS By Application

-Cancer Gene Sequencing

-Inherited Disease Screening

-Drug Development

-Forensic Genomics

-16S ribosomal RNA (rRNA) sequencing

Others

By Workflow

Pre-sequencing

Sequencing

Data Analysis

By Application

Human Biomedical Research

Plant & Animal Sciences

Drug Discovery

Others

By Type

DNA Based Targeted Sequencing

RNA Based Targeted Sequencing

By End-User

Academic Research

Hospitals & Clinics

Pharma & Biotech Entities

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

ArcherDX Inc

BGI Group

Illumina Inc

Oxford Nanopore Technologies Ltd

Pacific Biosciences of California Inc

PerkinElmer Inc

QIAGEN N.V.

Roche Holding AG

Thermo Fisher Scientific Inc

Formats Available: Excel, PDF, and PPT

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NGS By Application

- Cancer Gene Sequencing
- Inherited Disease Screening
- Drug Development
- Forensic Genomics
- 16S ribosomal RNA (rRNA) sequencing

Others

By Workflow

Pre-sequencing

Sequencing

Data Analysis

By Application

Human Biomedical Research

Plant & Animal Sciences

Drug Discovery

Others

By Type

DNA Based Targeted Sequencing

RNA Based Targeted Sequencing

By End-User

Academic Research

Hospitals & Clinics

Pharma & Biotech Entities

Others

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BGI Group

Illumina Inc

Oxford Nanopore Technologies Ltd

Pacific Biosciences of California Inc

PerkinElmer Inc

QIAGEN N.V.

Roche Holding AG

Thermo Fisher Scientific Inc

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