

# **Targeted Sequencing and Resequencing Market Size, Trends, Analysis, and Outlook By Technology (Sequencing, Re-sequencing), By Type (DNA, RNA), By Application (Clinical Application, Plant & animal sciences, Drug development, Others), By End-user (Hospitals & clinics, Academic Research, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Targeted Sequencing and Resequencing market size is poised to register 16.01% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Targeted Sequencing and Resequencing market across By Technology (Sequencing, Re-sequencing), By Type (DNA, RNA), By Application (Clinical Application, Plant & animal sciences, Drug development, Others), By End-user (Hospitals & clinics, Academic Research, Others).

The Targeted Sequencing and Resequencing Market is experiencing growth propelled by increasing demand for genomic analysis and variant detection, rising adoption of next-generation sequencing (NGS) technologies in research and clinical diagnostics, and advancements in target enrichment and bioinformatics analysis. Targeted sequencing and resequencing enable the selective amplification and sequencing of specific genomic regions or gene panels for identifying genetic variations, mutations, and structural rearrangements associated with disease risk and therapeutic response. Key trends include the development of hybridization capture and amplicon-based enrichment methods for targeted DNA sequencing with high coverage and accuracy, integration of bioinformatics pipelines and variant calling algorithms for variant interpretation and classification, and customization of sequencing panels and analysis

workflows for diverse research and clinical applications. Moreover, increasing investment in population genomics and precision medicine initiatives, expansion of molecular diagnostic laboratories and sequencing core facilities, and regulatory approvals for new targeted sequencing assays contribute to market growth.

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

## Key market trends defining the global Targeted Sequencing and Resequencing 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 Sequencing and Resequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Targeted Sequencing and Resequencing 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 Sequencing and Resequencing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Targeted Sequencing and Resequencing industry

Leading Targeted Sequencing and Resequencing 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 Sequencing and Resequencing companies.

### Targeted Sequencing and Resequencing Market Study- Strategic Analysis Review

The Targeted Sequencing and Resequencing 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 Sequencing and Resequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Targeted Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing market segments. Similarly, Strong end-user demand is encouraging Canadian Targeted Sequencing and Resequencing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Targeted Sequencing and Resequencing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Targeted Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing in Asia Pacific. In particular, China, India, and South East Asian

Targeted Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing 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 Sequencing and Resequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Targeted Sequencing and Resequencing.

#### Targeted Sequencing and Resequencing Market Company Profiles

The global Targeted Sequencing and Resequencing 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, BGI, Bio-Rad Laboratories Inc, DNASTAR Inc, F. Hoffmann-La Roche Ltd, GATC Biotech Ag, Genomatix GmbH, Illumina Inc, Integrated DNA Technologies Inc, Macrogen Inc, Oxford Nanopore Technologies, PacBio, Perkin Elmer Inc, PierianDx, QIAGEN, RainDance Technologies Inc, Thermo Fisher Scientific Inc

#### Recent Targeted Sequencing and Resequencing Market Developments

The global Targeted Sequencing and Resequencing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Targeted Sequencing and Resequencing 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

Sequencing

Re-sequencing

-Electrophoresis-based resequencing

-NGS

-Array-based resequencing

By Type

DNA

RNA

By Application

Clinical Application

Plant & animal sciences

Drug development

Others

By End-User

Hospitals & clinics

Academic Research

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

BGI

Bio-Rad Laboratories Inc

DNASTAR Inc

F. Hoffmann-La Roche Ltd

GATC Biotech Ag

Genomatix GmbH

Illumina Inc

Integrated DNA Technologies Inc

Macrogen Inc

Oxford Nanopore Technologies

PacBio

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RainDance Technologies Inc

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Formats Available: Excel, PDF, and PPT

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Re-sequencing

-Electrophoresis-based resequencing

-NGS

-Array-based resequencing

##### By Type

DNA

RNA

##### By Application

Clinical Application

Plant & animal sciences

Drug development

Others

##### By End-User

Hospitals & clinics

Academic Research

Others

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GATC Biotech Ag

Genomatix GmbH

Illumina Inc

Integrated DNA Technologies Inc

Macrogen Inc

Oxford Nanopore Technologies

PacBio

Perkin Elmer Inc

PierianDx

QIAGEN

RainDance Technologies Inc

Thermo Fisher Scientific Inc

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