

# **DNA Sequencing Market Size, Trends, Analysis, and Outlook By Product & Service (Consumables, Instruments, Services), By Technology (Sanger Sequencing, Next-Generation Sequencing (Whole Genome Sequencing (WGS), Whole Exome Sequencing (WES), Targeted Sequencing & Resequencing), Third Generation Sequencing (Single-Molecule Real-Time Sequencing, Nanopore Sequencing), By Workflow (Pre-sequencing, Sequencing, Data Analysis), By Application (Oncology, Reproductive Health, Clinical Investigation, Agrigenomics & Forensics, HLA Typing/Immune System Monitoring, Metagenomics, Epidemiology & Drug Development, Consumer Genomics, Others), By End-User (Academic Research, Clinical Research, Hospitals & Clinics, Pharmaceutical & Biotechnology Companies, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global DNA Sequencing market size is poised to register 22.97% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry.

The industry study analyzes the global DNA Sequencing market across By Product & Service (Consumables, Instruments, Services), By Technology (Sanger Sequencing, Next-Generation Sequencing (Whole Genome Sequencing (WGS), Whole Exome Sequencing (WES), Targeted Sequencing & Resequencing), Third Generation Sequencing (Single-Molecule Real-Time Sequencing, Nanopore Sequencing), By Workflow (Pre-sequencing, Sequencing, Data Analysis), By Application (Oncology, Reproductive Health, Clinical Investigation, Agrigenomics & Forensics, HLA Typing/Immune System Monitoring, Metagenomics, Epidemiology & Drug Development, Consumer Genomics, Others), By End-User (Academic Research, Clinical Research, Hospitals & Clinics, Pharmaceutical & Biotechnology Companies, Others).

The DNA sequencing market is experiencing rapid growth driven by advancements in sequencing technologies, declining sequencing costs, and the expanding applications of genomic information in healthcare, research, and personalized medicine. DNA sequencing plays a crucial role in decoding the genetic information encoded in DNA molecules, enabling the identification of genetic variations, disease-causing mutations, and actionable insights for diagnosis, treatment, and disease prevention. Factors such as the increasing adoption of next-generation sequencing (NGS) platforms, the integration of sequencing data with electronic health records (EHRs) and clinical workflows, and the rising demand for precision medicine and genomic testing services are driving market growth. Additionally, the growing prevalence of genetic disorders, cancer, and infectious diseases, coupled with advancements in bioinformatics and data analytics, is expanding the utility of DNA sequencing in clinical diagnostics and biomedical research. Moreover, initiatives aimed at promoting population-scale sequencing projects, such as precision medicine initiatives and large-scale genomic research consortia, are fueling market expansion and driving innovation in sequencing technologies and applications.

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

### Key market trends defining the global DNA 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.

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

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

### Key strategies adopted by companies within the DNA Sequencing industry

Leading DNA 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 DNA Sequencing companies.

### DNA Sequencing Market Study- Strategic Analysis Review

The DNA 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.

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

The DNA 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.

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

## Europe DNA 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 DNA 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 DNA 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 DNA 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 DNA Sequencing in Asia Pacific. In particular, China, India, and South East Asian DNA 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 DNA 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 DNA 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 DNA Sequencing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for DNA Sequencing.

## DNA Sequencing Market Company Profiles

The global DNA 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 Thermo Fisher Scientific Inc, Agilent Technology, Illumina Inc, QIAGEN, F. Hoffmann-La Roche Ltd, MacroGen Inc, PerkinElmer Genomics, PacBio, BGI, Bio-Rad Laboratories Inc, Myriad Genetics, PierianDx, Partek Incorporated, Eurofins Scientific

## Recent DNA Sequencing Market Developments

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

## DNA 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 Product & Service

Consumables

Instruments

Services

By Technology

Sanger Sequencing

Next-Generation Sequencing

-Whole Genome Sequencing (WGS)

-Whole Exome Sequencing (WES)

-Targeted Sequencing & Resequencing

Third Generation Sequencing

-Single-Molecule Real-Time Sequencing (SMRT)

-Nanopore Sequencing

By Workflow

Pre-sequencing

Sequencing

Data Analysis

By Application

Oncology

Reproductive Health

Clinical Investigation

Agrigenomics & Forensics

HLA Typing/Immune System Monitoring

Metagenomics, Epidemiology & Drug Development

Consumer Genomics

Others

By End-user

Academic Research

Clinical Research

Hospitals & Clinics

Pharmaceutical & 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

Thermo Fisher Scientific Inc

Agilent Technology

Illumina Inc

QIAGEN

F. Hoffmann-La Roche Ltd

Macrogen Inc

PerkinElmer Genomics

PacBio

BGI

Bio-Rad Laboratories Inc

Myriad Genetics

PierianDx

Partek Incorporated

Eurofins Scientific

Formats Available: Excel, PDF, and PPT

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    - Consumables
    - Instruments
    - Services

## By Technology

Sanger Sequencing

Next-Generation Sequencing

-Whole Genome Sequencing (WGS)

-Whole Exome Sequencing (WES)

-Targeted Sequencing & Resequencing

Third Generation Sequencing

-Single-Molecule Real-Time Sequencing (SMRT)

-Nanopore Sequencing

## By Workflow

Pre-sequencing

Sequencing

Data Analysis

## By Application

Oncology

Reproductive Health

Clinical Investigation

Agrigenomics & Forensics

HLA Typing/Immune System Monitoring

Metagenomics, Epidemiology & Drug Development

Consumer Genomics

Others

## By End-user

Academic Research

Clinical Research

Hospitals & Clinics

Pharmaceutical & Biotechnology Companies

Others

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- F. Hoffmann-La Roche Ltd
- Macrogen Inc
- PerkinElmer Genomics
- PacBio
- BGI
- Bio-Rad Laboratories Inc
- Myriad Genetics

PierianDx  
Partek Incorporated  
Eurofins Scientific

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