

Sequencing Kits Market by Type (Nucleic Acid Extraction & Amplification, Library Preparation, Control) Technology (NGS, Sanger) Application (Drug Discovery, Oncology, Reproductive Health, Infectious Diseases) End User - Global Forecast to 2030

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Abstracts

The global sequencing kits market is projected to reach \$21.9 billion by 2030, at a CAGR of 15.3% from 2023 to 2030.

Succeeding extensive secondary and primary research and in-depth analysis of the market scenario, the report comprises the analysis of key industry drivers, restraints, challenges, and opportunities. The growth of the sequencing kits & reagents market is driven by the increasing prevalence of cancer & genetic disorders, rising healthcare expenditures, increasing funding for research activities, the surge in genome mapping programs, the decreasing costs of sequencing procedures, the growing need for the early detection & prevention of diseases, technological advancements in sequencing products, the improving regulatory and reimbursement scenarios for NGS-based diagnostic tests, and government initiatives promoting the use of sequencing in clinical & research applications. However, the high costs of sequencing kits & reagents and the ethical & legal issues related to DNA sequencing-based diagnosis are factors restraining the growth of this market.

Moreover, government support for large-scale genomic sequencing projects, the increasing applications of genome sequencing in disease diagnostics and precision medicine, emerging economies, and advancements in genomics & proteomics are expected to generate growth opportunities for market stakeholders. However, the evolving regulatory landscape, the low chances of positive, actionable mutations, and the lack of sequencing professionals in developing countries are major challenges for

market growth.

Additionally, developing portable sequencing technologies and increasing partnerships & collaborations among NGS product manufacturers to expand and improve product offerings are prominent trends in the sequencing kits & reagents market.

Based on type, in 2023, the nucleic acid extraction & amplification kits & reagents segment is expected to account for the largest share of the market. This segment's large market share is attributed to the growing adoption of sequencing-based research and development by various end users, such as pharmaceutical & biopharmaceutical companies and academic & research institutes.

Based on technology, in 2023, the next-generation sequencing (NGS) segment is expected to account for the largest share of the market. The large market share of the segment is attributed to the growing adoption of NGS in clinical and research settings, its ability to provide faster and more accurate genetic testing, the rapidly declining cost of sequencing per base, and the introduction of cost-effective benchtop laboratory sequencers.

Based on application, the research applications segment is expected to account for the largest share of the market. The large market share of this segment is attributed to the rising incidence of cancer, the growing demand for precision medicine, the increased discovery of biomarkers, and the availability of cost-effective advanced sequencing technologies like NGS, SMRT, and nanopore for research applications.

Based on end user, in 2023, the pharmaceutical & biotechnology companies segment is expected to account for the largest share of the market. The large market share of this segment is attributed to the declining costs of sequencing, the development of companion diagnostics and precision medicine, and the rising demand for sequencing from pharmaceutical and biopharmaceutical companies, primarily for drug discovery purposes.

An in-depth analysis of the geographical scenario of the global sequencing kits & reagents market provides detailed qualitative and quantitative insights about the five major geographies (North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa) along with the coverage of major countries in each region. In 2023, North America is expected to account for the largest share of the sequencing kits & reagents market, followed by Europe, Asia-Pacific, Latin America, and the Middle East & Africa. North America's significant market share can be attributed to factors such as the rising

burden of cancer, the presence of key market players, well-established healthcare infrastructure, and government initiatives supporting sequencing projects.

The key players operating in the global sequencing kits & reagents market are Illumina, Inc. (U.S.), Thermo Fisher Scientific Inc. (U.S.), F. Hoffmann-La Roche Ltd. (Switzerland), PerkinElmer, Inc. (U.S.), QIAGEN N.V. (Netherlands), Agilent Technologies, Inc. (U.S.), Pacific Biosciences of California, Inc. (U.S.), Danaher Corporation (U.S.), Bio-Rad Laboratories, Inc. (U.S.), Oxford Nanopore Technologies Plc. (U.K.), 10X Genomics, Inc. (U.S.), and Beijing Genomics Institute (BGI) (China).

Scope of the Report:

Sequencing Kits & Reagents Market Assessment—by Type

Control Kits & Reagents

Library Preparation Kits & Reagents

Nucleic Acid Extraction & Amplification Kits & Reagents

Sequencing Kits & Reagents

Other Kits & Reagents

Note: Other kits & reagents include fluorescent dye, polyacrylamide gel, adenosine phosphosulphate (APS), luciferin, apyrase, probes, barcode kits, flow cells, trays, and beads

Sequencing Kits & Reagents Market Assessment—by Technology

Next-generation Sequencing

Sanger Sequencing

Third & Fourth-generation Sequencing

Other Sequencing Technologies

Note: Other technologies include pyro sequencing, degradome sequencing, chromatin immunoprecipitation (ChIP) sequencing, and methylation sequencing

Sequencing Kits & Reagents Market Assessment—by Application

Research Applications

Drug Discovery

Agricultural & Animal Research

Other Research Applications

Clinical Applications

Reproductive Health

Oncology

Infectious Diseases

Other Clinical Applications

Note: Other research applications include food microbiology, microbial analysis in the beverage industry, and environmental studies.

Note: Other clinical applications include the detection of genetic aberrations in neurological disorders, rare diseases, and metabolic and immune disorders

Sequencing Kits & Reagents Market Assessment—by End User

Pharmaceutical & Biotechnology Companies

Hospitals & Diagnostic Laboratories

Academic & Research Institutes

Other End Users

Note: Other end users include forensic laboratories & security agencies, food & beverage companies, and agriculture companies

Sequencing Kits & Reagents Market Assessment—by Geography

North America

U.S.

Canada

Europe

Germany

France

Italy

U.K.

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

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