

Whole Genome Sequencing Market Size, Trends, Analysis, and Outlook By Product (Instruments, Consumables, Services), By Type (Large Whole Genome Sequencing, Small Whole Genome Sequencing), By Workflow (Pre-sequencing, Sequencing, Data Analysis), By Application (Human Whole Genome Sequencing, Plant Whole Genome Sequencing, Animal Whole Genome Sequencing, Microbial Whole Genome Sequencing), By End-user (Academic & Research Institutes, Hospitals & Clinics, Pharmaceutical & Biotechnology Companies, Others), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global Whole Genome Sequencing market size is poised to register 20.43% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Whole Genome Sequencing market across By Product (Instruments, Consumables, Services), By Type (Large Whole Genome Sequencing, Small Whole Genome Sequencing), By Workflow (Pre-sequencing, Sequencing, Data Analysis), By Application (Human Whole Genome Sequencing, Plant Whole Genome Sequencing, Animal Whole Genome Sequencing, Microbial Whole Genome Sequencing), By End-user (Academic & Research Institutes, Hospitals & Clinics, Pharmaceutical & Biotechnology Companies, Others).

The Whole Genome Sequencing Market is witnessing growth driven by advancements in next-generation sequencing (NGS) technologies, declining sequencing costs, and expanding applications of genomic analysis in healthcare and research. Whole genome sequencing (WGS) involves the determination of an individual's complete DNA sequence, providing comprehensive insights into genetic variations and disease risks. Key trends include the development of high-throughput and rapid WGS platforms for large-scale genomic studies and population screening initiatives, the integration of bioinformatics tools and data analytics for interpretation of complex genomic data, and the expansion of WGS applications to precision medicine, oncology, and infectious disease diagnostics. Moreover, increasing adoption of WGS in clinical diagnostics and personalized healthcare, growing research investments in genomics and precision medicine, and collaborative initiatives for large-scale genomic data sharing contribute to market expansion.

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

Key market trends defining the global Whole Genome 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.

Whole Genome Sequencing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

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

Key strategies adopted by companies within the Whole Genome Sequencing industry

Leading Whole Genome 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 Whole Genome Sequencing companies.

Whole Genome Sequencing Market Study- Strategic Analysis Review

The Whole Genome 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.

Whole Genome Sequencing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Whole Genome 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.

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

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

Whole Genome Sequencing Market Company Profiles

The global Whole Genome 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, Azenta US Inc, BGI, Illumina Inc, Oxford Nanopore Technologies, Pacific Biosciences of California Inc, ProPhase Labs Inc, Psomagen, QIAGEN, Thermo Fisher Scientific Inc

Recent Whole Genome Sequencing Market Developments

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

Whole Genome 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

Instruments

Consumables

Services

By Type

Large Whole Genome Sequencing

Small Whole Genome Sequencing

By Workflow

Pre-sequencing

Sequencing

Data Analysis

By Application

Human Whole Genome Sequencing

Plant Whole Genome Sequencing

Animal Whole Genome Sequencing

Microbial Whole Genome Sequencing

By End-User

Academic & Research Institutes

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

Agilent Technologies

Azenta US Inc

BGI

Illumina Inc

Oxford Nanopore Technologies

Pacific Biosciences of California Inc

ProPhase Labs Inc

Psomagen

QIAGEN

Thermo Fisher Scientific Inc

Formats Available: Excel, PDF, and PPT

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 - Instruments
 - Consumables

Services

By Type

Large Whole Genome Sequencing

Small Whole Genome Sequencing

By Workflow

Pre-sequencing

Sequencing

Data Analysis

By Application

Human Whole Genome Sequencing

Plant Whole Genome Sequencing

Animal Whole Genome Sequencing

Microbial Whole Genome Sequencing

By End-User

Academic & Research Institutes

Hospitals & Clinics

Pharmaceutical & Biotechnology Companies

Others

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