

Global Whole Exome Sequencing Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Whole Exome Sequencing market size was valued at USD 304.6 million in 2023 and is forecast to a readjusted size of USD 628.7 million by 2030 with a CAGR of 10.9% during review period.

Exome sequencing is a capture based method developed to identify variants in the coding region of genes which affect protein function. While exome capture methods using PCR, hybrid capture and molecular inversion probes exist, the most common and efficient strategies are in-solution capture methods. In-solution capture utilizes pools of oligonucleotides or probes bound to magnetic beads, whose sequence has been designed to hybridize to exon regions. After binding to genomic DNA, these probes are pulled down and washed, allowing exon regions to be selectively sequenced.

While there are approximately 180,000 exons in the human genome, constituting less than 2% of total sequence, the exome contains ~80-90% of known disease causing variants making it a cost-effective alternative to whole genome sequencing. When performing exome-seq, users should not only consider average on-target coverage but also the local coverage of particular sites of interest. When choosing between exome and whole genome sequencing (WGS), consider that exome sequencing has the advantage that oligonucleotides are designed to particular genomic regions where typical coverage with WGS is not enough for SNP calling. It is also more affordable enabling the analysis of more individuals and populations. With WGS, you can detect variants in regions not covered by exome capture allowing or the identification of structural and non-coding variants associated with disease.

The major players in global Whole Exome Sequencing market include Illumina, ThermoFisher, Roche, etc. The top 3 players occupy about 45% shares of the global market. North America and Europe are main markets, they occupy about 70% of the global market. Illumina TruSeq Exome and Roche Nimblegen SeqCap are main types, with a share about 55%. Mendelian Disease and Rare Syndrome Gene Discovery are the main application, which hold a share about 40%.

The Global Info Research report includes an overview of the development of the Whole Exome Sequencing industry chain, the market status of Correlation Research of Normal Human (Agilent HaloPlex, Agilent SureSelect), Mendelian Disease and Rare Syndrome Gene Discovery (Agilent HaloPlex, Agilent SureSelect), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Whole Exome Sequencing.

Regionally, the report analyzes the Whole Exome Sequencing markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Whole Exome Sequencing market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Whole Exome Sequencing market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Whole Exome Sequencing industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Agilent HaloPlex, Agilent SureSelect).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Whole Exome Sequencing market.

Regional Analysis: The report involves examining the Whole Exome Sequencing market

at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Whole Exome Sequencing market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Whole Exome Sequencing:

Company Analysis: Report covers individual Whole Exome Sequencing players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Whole Exome Sequencing. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Correlation Research of Normal Human, Mendelian Disease and Rare Syndrome Gene Discovery).

Technology Analysis: Report covers specific technologies relevant to Whole Exome Sequencing. It assesses the current state, advancements, and potential future developments in Whole Exome Sequencing areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Whole Exome Sequencing market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Whole Exome Sequencing market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Agilent HaloPlex

Agilent SureSelect

Agilent SureSelect QXT

Illumina TruSeq Exome

Roche Nimblegen SeqCap

MYcroarray MYbaits

Market segment by Application

Correlation Research of Normal Human

Mendelian Disease and Rare Syndrome Gene Discovery

The Research of Complex Diseases

Mouse Exome Sequencing

Market segment by players, this report covers

Illumina

Thermo Fisher

Roche

Agilent

Eurofins

Sengenics

Ambry

MacroGen

BGI

Novo Gene

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Whole Exome Sequencing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Whole Exome Sequencing, with revenue, gross margin and global market share of Whole Exome Sequencing from 2019 to 2024.

Chapter 3, the Whole Exome Sequencing competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with

revenue and market share for key countries in the world, from 2019 to 2024. and Whole Exome Sequencing market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Whole Exome Sequencing.

Chapter 13, to describe Whole Exome Sequencing research findings and conclusion.

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