

Global Whole Exome Sequencing Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview:

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 Global Whole Exome Sequencing Market Size was estimated at USD 333.31 million in 2023 and is projected to reach USD 637.03 million by 2029, exhibiting a CAGR of 11.40% during the forecast period.



This report provides a deep insight into the global Whole Exome Sequencing market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Whole Exome Sequencing Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Whole Exome Sequencing market in any manner.

Global Whole Exome Sequencing Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Illumina

Thermo Fisher

Roche

Angilent

Eurofins

Global Whole Exome Sequencing Market Research Report 2024(Status and Outlook)



Sengenics

Ambry

Macrogen

BGI

Novo Gene

Market Segmentation (by Type)

Agilent HaloPlex

Agilent SureSelect

Agilent SureSelect QXT

Illumina TruSeq Exome

Roche Nimblegen SeqCap

MYcroarray MYbaits

Market Segmentation (by Application)

Correlation Research of Normal Human

Mendelian Disease and Rare Syndrome Gene Discovery

The Research of Complex Diseases

Mouse Exome Sequencing

Geographic Segmentation

North America (USA, Canada, Mexico)



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

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

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

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Whole Exome Sequencing Market

Overview of the regional outlook of the Whole Exome Sequencing Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors



You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report



In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Whole Exome Sequencing Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.



Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.



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