

Omics Lab Services Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service (Genomics, Proteomics, Transcriptomics, Metabolomics, Epigenetics), By Frequency Of Service (One-Off, Repeat, Continuous), By Business (Hospitals, Research Institutes, Diagnostic Labs), By End Use (Cancer, Pharmaco, Reproductive, Other Genetic Disease), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Omics Lab Services Market was valued at USD 72.51 billion in 2024 and is projected to reach USD 124.61 billion by 2030, growing at a CAGR of 9.44% during the forecast period. This rapidly advancing market spans genomics, proteomics, metabolomics, transcriptomics, and epigenetics, and plays a crucial role in understanding complex biological systems. These services support disease diagnosis, biomarker discovery, and precision treatment development. The increasing demand for personalized medicine, advancements in high-throughput sequencing, and rising use of omics in sectors such as drug discovery, agriculture, and environmental sciences are propelling market growth. As technologies evolve, omics lab services continue to expand their applications and influence in modern science and healthcare.

Key Market Drivers

Growing Integration Of Genomics Data Into Clinical Workflows

The integration of genomics data into clinical workflows is transforming healthcare and driving significant growth in the Omics Lab Services Market. Genomic insights are reshaping disease diagnosis, risk assessment, and personalized treatment approaches. With increasing accessibility and affordability of genomic data, healthcare providers can now identify patient-specific genetic mutations and susceptibilities, allowing for more targeted and effective interventions. Technologies like high-throughput sequencing and advanced bioinformatics are streamlining the analysis and interpretation of complex datasets, making genomics integration into everyday clinical practices both feasible and beneficial. Omics service providers play a vital role in enabling this transition, delivering the analytical capabilities and expertise required to support precision medicine initiatives.

Key Market Challenges

Lack Of Skilled Professionals

A major challenge facing the Omics Lab Services Market is the shortage of skilled professionals capable of managing and interpreting complex omics data. The sector requires expertise across molecular biology, bioinformatics, and data analytics—fields where highly trained personnel are in short supply. Particularly in bioinformatics, the volume and complexity of data generated by omics platforms necessitate specialized skills in data mining, coding, and statistical analysis. This talent gap leads to data processing delays and limits the scalability of omics services. Furthermore, effective collaboration across interdisciplinary teams is essential, and the lack of professionals capable of bridging these domains impedes broader adoption and integration of omics into healthcare and research.

Key Market Trends

Personalized Medicine

Personalized medicine is a transformative trend reshaping the Omics Lab Services Market by customizing healthcare to individual genetic and molecular profiles. Omics technologies, particularly genomics and proteomics, enable healthcare providers to uncover disease markers and identify therapeutic targets unique to each patient. This is particularly impactful in oncology, where tumor-specific genetic analysis informs the selection of targeted therapies, improving outcomes and reducing adverse effects. Beyond cancer, personalized medicine is expanding into areas such as cardiology,

neurology, and rare genetic disorders. The rise of direct-to-consumer genetic testing is further fueling public interest, empowering individuals to take a proactive approach to their health based on personal genetic insights.

Key Market Players

Agilent Technologies, Inc.

Q2 Solutions LLC

Flomics Biotech

QIAGEN N.V.

Thermo Fisher Scientific Inc.

Illumina, Inc

Quest Diagnostics Incorporated

Phenoswitch Bioscience

Spectrus Corporation

BEIJING GENOMICS INSTITUTE

Report Scope:

In this report, the Global Omics Lab Services Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Omics Lab Services Market, By Service:

Genomics

Proteomics

Transcriptomics

Metabolomics

Epigenetics

Omics Lab Services Market, By Frequency Of Service:

One-Off

Repeat

Continuous

Omics Lab Services Market, By Business:

Hospitals

Research Institutes

Diagnostic Labs

Omics Lab Services Market, By End Use:

Cancer

Pharmaco

Reproductive

Other Genetic Disease

Omics Lab Services Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Omics Lab Services Market.

Available Customizations:

Global Omics Lab Services market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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