

# **Optical Genome Mapping Market Size, Trends, Analysis, and Outlook By Product (Instruments, Consumables and Reagents, Software, Services), By Application (Structural Variant Detection, Genome Assembly, Microbial Strain Typing, Others), By End-user (Biotechnology and Pharmaceutical Companies, Clinical Laboratories, Academic research institutes, Others), by Region, Country, Segment, and Companies, 2024-2030**

<https://marketpublishers.com/r/O3213E30EBC3EN.html>

Date: March 2024

Pages: 190

Price: US\$ 3,980.00 (Single User License)

ID: O3213E30EBC3EN

## **Abstracts**

The global Optical Genome Mapping market size is poised to register 22.37% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Optical Genome Mapping market across By Product (Instruments, Consumables and Reagents, Software, Services), By Application (Structural Variant Detection, Genome Assembly, Microbial Strain Typing, Others), By End-user (Biotechnology and Pharmaceutical Companies, Clinical Laboratories, Academic research institutes, Others).

The Optical Genome Mapping market is experiencing significant growth driven by the increasing demand for high-throughput, long-read DNA sequencing technologies, the expanding applications of optical mapping in genomics research, and the advancements in optical genome mapping platforms and bioinformatics tools. Optical genome mapping is a next-generation sequencing (NGS) technology that uses optical imaging and computational analysis to map the entire genome of an organism, enabling the detection of structural variations, copy number variations, and genomic rearrangements with high resolution and accuracy. Key drivers of market growth include

the growing adoption of optical mapping for de novo genome assembly, genome finishing, and comprehensive genomic analysis in various fields, including cancer research, human genetics, plant breeding, and microbiology. Additionally, the advancements in optical imaging technologies, such as nanochannel-based DNA stretching and fluorescent labeling techniques, are driving innovation in optical genome mapping platforms, enabling the analysis of complex genomic rearrangements and chromosomal aberrations. Moreover, the integration of optical mapping with other genomic technologies, such as short-read sequencing, long-read sequencing, and single-cell sequencing, is enabling comprehensive characterization of the genome architecture and genetic variations. Furthermore, the development of cloud-based bioinformatics pipelines and data analysis workflows for optical genome mapping data, the expansion of collaborative research networks and consortia for large-scale genomic studies, and the increasing investment in genome mapping infrastructure and resources are fueling market expansion. With the continuous evolution of optical genome mapping technology and the growing demand for comprehensive genomic analysis tools, the optical genome mapping market is poised for further growth in the coming years.

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

### Key market trends defining the global Optical Genome Mapping 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.

### Optical Genome Mapping Market Segmentation- Industry Share, Market Size, and Outlook to 2030

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

Key strategies adopted by companies within the Optical Genome Mapping industry

Leading Optical Genome Mapping 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 Optical Genome Mapping companies.

Optical Genome Mapping Market Study- Strategic Analysis Review

The Optical Genome Mapping 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.

Optical Genome Mapping Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Optical Genome Mapping 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.

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

### Europe Optical Genome Mapping Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Optical Genome Mapping 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 Optical Genome Mapping 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 Optical Genome Mapping 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 Optical Genome Mapping in Asia Pacific. In particular, China, India, and South East Asian Optical Genome Mapping 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 Optical Genome Mapping 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 Optical Genome Mapping 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 Optical Genome Mapping market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Optical Genome Mapping.

### Optical Genome Mapping Market Company Profiles

The global Optical Genome Mapping 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 Bionano Genomics, Cerba, Genohub Inc, Hofkens Lab, INRAE, MedGenome, Nucleome Informatics Private Ltd, PerkinElmer, Praxis Genomics Llc, SourceBio International Ltd

## Recent Optical Genome Mapping Market Developments

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

## Optical Genome Mapping 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 and Reagents

Software

Services

By Application

Structural Variant Detection

Genome Assembly

Microbial Strain Typing

Others

By End-User

Biotechnology and Pharmaceutical Companies

Clinical Laboratories

Academic research institutes

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Bionano Genomics

Cerba

Genohub Inc

Hofkens Lab

INRAE

MedGenome

Nucleome Informatics Private Ltd

PerkinElmer

Praxis Genomics Llc

SourceBio International Ltd

Formats Available: Excel, PDF, and PPT



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Software

Services

By Application

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