

## **Global Optical Genome Mapping Market Report and Forecast 2023-2031**

Market Report | 2023-07-13 | 140 pages | EMR Inc.

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### **Report description:**

Global Optical Genome Mapping Market Report and Forecast 2023-2031

Global Optical Genome Mapping Market Outlook:

The global optical genome mapping market is anticipated to grow at a CAGR of 19.7% during the forecast period of 2023-2031 driven by the advancements in genomics research.

Optical Genome Mapping: Introduction

Optical genome mapping is a cutting-edge technology that enables the comprehensive analysis and mapping of the entire genome of an organism. It allows researchers and scientists to study genetic variations, structural rearrangements, and other genomic alterations with high accuracy and resolution. Optical genome mapping provides valuable insights into genomic disorders, cancer research, personalized medicine, and other fields of genomics.

Key Trends in the Optical Genome Mapping Market

Some key trends involved in the optical genome mapping market are as follows:

- **Advancements in Technology:** Optical genome mapping is witnessing continuous advancements in technology, leading to improved efficiency, accuracy, and scalability of the technology. The development of high-throughput platforms and automated workflows has enabled faster and more cost-effective genome mapping, making it more accessible to researchers and clinicians.
- **Application in Clinical Diagnostics:** Optical genome mapping is increasingly being adopted in clinical diagnostics to detect and analyze genetic abnormalities associated with various diseases and disorders. It provides a comprehensive view of the genome, allowing for the identification of structural variations and genetic markers that may contribute to disease development or treatment response. The integration of optical genome mapping into clinical workflows has the potential to revolutionize diagnosis and personalized treatment approaches.
- **Integration with Next-Generation Sequencing (NGS):** Optical genome mapping is often used in conjunction with next-generation sequencing technologies to complement and validate the sequencing data. This integration enhances the accuracy of genomic analysis by providing long-range structural information that is not easily obtained through sequencing alone. The combination of optical genome mapping and NGS offers a comprehensive and powerful approach for understanding complex genomic variations.

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-□Expansion of Genomic Research: As the field of genomics continues to expand, optical genome mapping is gaining prominence as a valuable tool for genome analysis. Its ability to detect large-scale genomic alterations, such as copy number variations, structural rearrangements, and repeat expansions, provides critical insights into genome evolution, population genetics, and disease mechanisms. Researchers are increasingly incorporating optical genome mapping into their studies to unravel the complexities of the genome.

#### Optical Genome Mapping Market Segmentations

##### Market Breakup by Product

- Consumables
- Instruments

##### Market Breakup by Application

- Genome Assembly
- Structural Variation Detection
- Microbial Strain Typing
- Haplotype Phasing
- Others

##### Market Breakup by End User

- Research and Academic Institutions
- Biotechnology and Pharmaceutical Companies
- Clinical Laboratories
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Optical Genome Mapping Market Scenario

The market for optical genome mapping has witnessed significant growth in recent years, driven by advancements in genomics research, increasing demand for personalized medicine, and the need for comprehensive genomic analysis. Optical genome mapping technologies have revolutionized the way we study and understand the genome, offering high-resolution mapping of genomic variations and structural rearrangements. These technologies have found applications in various fields, including clinical diagnostics, pharmaceutical research, and agriculture.

The market for optical genome mapping is expected to expand further as the technology becomes more accessible and affordable. Advancements in instrument design, automation, and data analysis algorithms have made optical genome mapping platforms more user-friendly and efficient. This has facilitated their integration into research and clinical workflows, allowing for faster and more accurate analysis of genomic data.

Overall, the market for optical genome mapping is expected to witness substantial growth in the coming years. The technology's ability to provide comprehensive genomic information, its applications in personalized medicine and clinical diagnostics, and ongoing advancements in instrument design and data analysis algorithms are key factors driving its adoption. With continued

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research and development efforts, optical genome mapping is poised to transform the field of genomics and contribute to advancements in healthcare and precision medicine.

#### Optical Genome Mapping Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Bionano Genomics, Inc.
- Nucleome Informatics Pvt Ltd
- PerkinElmer, Inc.
- Nabsys Inc.
- France Genomique
- Praxis Genomics LLC
- OpGen, Inc.
- Thermo Fisher Scientific, Inc.
- Illumina, Inc.
- HemoCue Holding AB

\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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