

Global Optical Genome Mapping Market, By Product (Consumables v/s Instruments), By Application (Genome Assembly, Structural Variation Detection, Microbial Strain Typing, Haplotype Phasing, Others), By End User (Research & Academic Institutions, Biotechnology & Pharmaceutical Companies, Clinical Laboratories, Others), By Region, Competition Forecast & Opportunities, 2027

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Abstracts

Global optical genome mapping market stood at USD101.11 million in 2021 and is projected to grow at a CAGR of 19.73% during the forecast period. Optical genome mapping represents an emerging technology that utilizes labeled and high molecular weight DNA that is subsequently electrophoresed to nanochannels and linearized for imaging. Optical mapping has been commonly used to enhance de novo plant genome assemblies, with more genomes in the pipeline, such as rice, maize, medicago, amborella, tomato, and wheat. Optical genome mapping provides long-range genomic information and makes it convenient to spot significant structural differences. Optical mapping can assess long single DNA molecules that complement short-read sequencing. This technology assists in eliminating and finding out the cause of several genetic disorders in the plants and getting information about the root cause of those genetic disorders.

The modifying lifestyle, along with the accumulation of harmful mutations, escalates the cases of genetic disorders, which drives the market growth. The rising awareness among the population related to prenatal testing has elevated the demand for techniques such as optical genome mapping. Optical genome mapping assists in

identifying repeat sections of the genome and all varieties of structural variants, thereby having the edge over the existing sequencing technologies. All these factors aid in market growth.

The global optical genome mapping market is segmented by product, application, end-user, regional distribution, and competitive landscape. Based on product, the market can be split into consumables and instruments. Based on application, the market can be divided into genome assembly, structural variation detection, microbial strain typing, haplotype phasing, and others. Based on end-user, the market can be segmented into research & academic institutions, biotechnology & pharmaceutical companies, clinical laboratories, and others. Regionally, the market is divided into Asia-Pacific region, North America, Europe, South America, and Middle East & Africa.

The leading market players are Bionano Genomics, Inc., Nabsys Inc, Nucleome Informatics Pvt Ltd, France G?nomique, Praxis Genomics LLC, PerkinElmer, Inc., and OpGen, Inc.

Years considered for this report:

Historical Years: 2017-2020

Base Year: 2021

Estimated Year: 2022E

Forecast Period: 2023F–2027F

Objective of the Study:

To analyze the historical growth in the market size of global optical genome mapping market from 2017 to 2021.

To estimate and forecast the market size of global optical genome mapping market from 2022E to 2027F and growth rate until 2027F.

To classify and forecast global optical genome mapping market based on product, application, end user, regional distribution, and competitive landscape.

To identify dominant region or segment in the global optical genome mapping market.

To identify drivers and challenges for global optical genome mapping market.

To examine competitive developments such as expansions, mergers & acquisitions, etc., in global optical genome mapping market.

To identify and analyze the profile of leading players operating in global optical genome mapping market.

To identify key sustainable strategies adopted by market players in global optical genome mapping market.

TechSci Research performed both primary as well as exhaustive secondary research for this study. Initially, TechSci Research sourced a list of optical genome mapping service provider companies across the globe. Subsequently, TechSci Research conducted primary research surveys with the identified companies. While interviewing, the respondents were also enquired about their competitors. Through this technique, TechSci Research could include the companies which could not be identified due to the limitations of secondary research.

TechSci Research calculated the global optical genome mapping market size using a bottom-up approach, where data for various end user segments was recorded and forecast for the future years. TechSci Research sourced these values from the industry experts and company representatives and externally validated through analyzing historical data of these services for getting an appropriate, overall market size. Various secondary sources such as company websites, news articles, press releases, company annual reports, investor presentations and financial reports were also used by TechSci Research.

Key Target Audience:

Optical genome mapping companies/partners

End-users

Government bodies such as regulating authorities and policy makers

Organizations, industry associations, forums and alliances related to optical genome mapping

Market research and consulting firms

The study is useful in providing answers to several critical questions that are important for the industry stakeholders such as optical genome mapping service provider companies, end users etc., besides allowing them in strategizing investments and capitalizing on market opportunities.

Report Scope:

In this report, global optical genome mapping market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Optical Genome Mapping Market, By Product:

Consumables

Instruments

Optical Genome Mapping Market, By Application:

Genome Assembly

Structural Variation Detection

Microbial Strain Typing

Haplotype Phasing

Others

Optical Genome Mapping Market, By End User:

Research & Academic Institutions

Biotechnology & Pharmaceutical Companies

Clinical Laboratories

Others

Optical Genome Mapping Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Germany

Italy

Spain

Asia-Pacific

China

India

Japan

South Korea

Australia

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 global Optical Genome Mapping market.

Available Customizations:

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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