

Forensic Genomics Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2030

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Report description:

The report on the global forensic genomics market provides qualitative and quantitative analysis for the period from 2021-2030. The global forensic genomics market was valued at USD 502.02 million in 2022 and is expected to reach USD 1447.91 million in 2030, with a CAGR of 14.16% during the forecast period 2023-2030. The study on forensic genomics market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2021-2030.

The expanding field of personalized medicine is a key driver behind the growth of the forensic genomics market. Personalized medicine involves tailoring medical treatments and interventions to an individual's genetic makeup, enabling more effective and targeted healthcare. Forensic genomics plays a crucial role in this field by providing detailed genetic information that can aid in diagnosing diseases, predicting an individual's response to specific medications, and identifying genetic predispositions to certain conditions. Moreover, forensic genomics is instrumental in uncovering familial relationships and genetic ancestry, which can be valuable for personalized healthcare strategies. As the cost of genomic sequencing continues to decrease and the availability of genomic data increases, the applications of forensic genomics in personalized medicine are expanding rapidly. This growth is transforming healthcare by enhancing diagnostics, treatment choices, and preventative measures, making it a pivotal technology in the era of precision medicine. Moreover, the forensic genomics market is experiencing significant momentum due to increased investment from both private and government sectors aimed at the development of cost-effective forensic testing techniques. This financial infusion aligns with a rising incidence of criminal cases, encompassing homicides, kidnappings, and sexual assaults. The kits segment in the forensic genomics market commands the largest market share primarily because of its pivotal role in streamlining and simplifying the forensic analysis process. Forensic genomics kits encompass a wide array of pre-packaged tools, reagents, and consumables essential for DNA extraction, quantification, amplification, and analysis. They offer a convenient and standardized solution for forensic laboratories, facilitating faster and more efficient DNA profiling. Moreover, the increasing demand for forensic DNA analysis in various applications, such as criminal investigations, paternity testing, and disaster victim identification, has propelled the growth of the kits segment. These kits are user-friendly and often require minimal training, enabling a broader range of professionals to conduct DNA analysis. Additionally, ongoing advancements in kit technology have led to enhanced accuracy and sensitivity, making them indispensable in modern forensic science.

North America region is poised to maintain its position as the leading market for forensic genomics due to several key factors. One

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of which is the growing cases of violent crimes which leads to a subsequent rise in forensic analyses in the region. Based on data released by the Centers for Disease Control and Prevention (CDC), the homicide rate in the United States surged by 30% in the year 2020. Additionally, the region's significant market share can be attributed to its advanced technological infrastructure and well-established forensic science sector. The presence of renowned forensic laboratories, research institutions, and collaborations with technology providers has bolstered the adoption of cutting-edge genomic analysis tools. Additionally, the efforts of the U.S. Food and Drug Administration (FDA) to simplify the regulatory approval process for personalized medicine products, encompassing genetic tests and targeted therapies, have contributed to an increased demand in the forensic genomics market within this region.

Report Findings

1) Drivers

- Increasing demand for DNA analysis in criminal investigations and growing applications in paternity testing are driving the forensic genomics market.
- Expansion of forensic genomics applications beyond human DNA analysis, such as wildlife conservation and disaster victim identification which help to drive the market.

2) Restraints

- Ethical and privacy concerns related to genetic data and regulatory challenges hamper the market growth.

3) Opportunities

- Advancements in DNA sequencing techniques and the potential for using genomics in mass disaster identification offer significant opportunities for the forensic genomics market.

Research Methodology

A) Primary Research

Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents include

1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry

Our primary research respondents typically include

1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.

B) Secondary Research

Secondary research involves extensive exploring through the secondary sources of information available in both the public domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.

The secondary sources of the data typically include

1. Company reports and publications
2. Government/institutional publications
3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

Segment Covered

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The global forensic genomics market is segmented on the basis of solution, method, and application.

The Global Forensic Genomics Market by Solution

- Kits
- Analysers & Sequencers
- Software
- Consumables

The Global Forensic Genomics Market by Method

- Capillary Electrophoresis (CE)
- Next-generation Sequencing
- PCR Amplifications

The Global Forensic Genomics Market by Application

- Criminal Testing
- Paternity Testing
- Familial Testing

Company Profiles

The companies covered in the report include

- Illumina, Inc.
- Agilent Technologies, Inc.
- Thermo Fisher Scientific
- GE HealthCare
- Eurofins Discovery
- Gene by Gene, Ltd.
- Verogen, Inc
- BGI Geonomics
- Neogen Corporation
- QIAGEN

What does this Report Deliver?

1. Comprehensive analysis of the global as well as regional markets of the forensic genomics market.
2. Complete coverage of all the segments in the forensic genomics market to analyze the trends, developments in the global market and forecast of market size up to 2030.
3. Comprehensive analysis of the companies operating in the global forensic genomics market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

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