

Forensic Genomics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Kits, Analyzers & Sequencers, Software, Consumables), By Technique (Capillary Electrophoresis {CE}, Next-generation Sequencing {NGS}, PCR Amplification), By Application (Criminal Testing, Paternity & Familial Testing, Biodefense, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global Forensic Genomics Market was valued at USD 587.15 million in 2024 and is projected to reach USD 1347.26 million by 2030, growing at a CAGR of 14.85% during the forecast period. The market is experiencing notable expansion, driven by increased funding from both governmental and private sectors for cost-efficient forensic testing technologies. This includes enhanced capabilities for analyzing physical evidence in state-run forensic labs globally. Rising security concerns, especially at international and domestic airports, coupled with the growing prevalence of criminal activities, are further fueling demand for advanced forensic solutions. The adoption of cutting-edge equipment in forensic departments, bolstered by advancements in forensic science, is also enhancing investigative efficiency. Additionally, law enforcement agencies' growing reliance on genomic technologies to solve crimes is propelling market growth. Notably, collaborative research, such as the 2022 initiative by the University of Washington and U.S. Department of Homeland Security using DNA to trace ivory smuggling networks, exemplifies the expanding role of forensic genomics in global security operations.

Key Market Drivers

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Increasing Crime Rates and Demand for Advanced Forensic Solutions

The rise in violent crime globally is a key factor propelling the forensic genomics market, as law enforcement agencies turn to precise, advanced tools to improve investigative outcomes. Forensic genomics offers highly accurate DNA-based identification techniques crucial for solving complex cases. For instance, the FBI reported more than 1.3 million violent crimes in the U.S. in 2022. DNA technology has already been instrumental in resolving over 50,000 cases from 2010 to 2020, according to the U.S. Department of Justice. These figures underline the growing reliance on genomic analysis for cold cases and active investigations, reinforcing the demand for innovative and reliable forensic tools.

Key Market Challenges

Ethical Concerns and Data Privacy Issues

Despite its benefits, forensic genomics raises substantial ethical and data privacy concerns that hinder broader adoption. The practice of collecting and storing DNA-sometimes without clear consent-raises issues around individual rights and potential misuse. For example, collecting genetic material from suspects or their relatives can lead to questions about voluntary participation. Long-term storage of genetic profiles in national databases has sparked fears of surveillance and genetic discrimination. Regulatory bodies like the EU's GDPR impose strict controls on genetic data handling, while advocacy groups such as the ACLU and EFF have voiced concerns about the absence of comprehensive legal safeguards, especially in countries like the United States. These ethical dilemmas could limit public acceptance and regulatory flexibility.

Key Market Trends

Integration of Artificial Intelligence and Machine Learning in Forensic Genomics

Artificial intelligence and machine learning are increasingly being integrated into forensic genomics to manage and analyze complex genomic data. AI-driven tools help streamline the interpretation of genetic information by identifying patterns and resolving DNA mixtures from multiple contributors-an essential capability in forensic investigations. Machine learning also enhances phenotypic prediction, enabling law enforcement to deduce physical traits from DNA when suspect databases offer no direct matches. These innovations increase accuracy, reduce turnaround times, and support real-time decision-making in active cases, signaling a technological shift toward automated and scalable forensic solutions.

Key Market Players

- Illumina, Inc.
- Verogen, Inc.
- Agilent Technologies, Inc.
- Thermo Fischer Scientific, Inc.
- QIAGEN N.V.
- GE Healthcare
- Gene by Gene, Ltd.
- Neogen Corporation
- Eurofins Scientific SE
- Othram Inc.

Report Scope:

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

- Forensic Genomics Market, By Component:
 - o Kits
 - o Analyzers & Sequencers
 - o Software
 - o Consumables
- Forensic Genomics Market, By Technique:
 - o Capillary Electrophoresis (CE)
 - o Next-generation Sequencing (NGS)
 - o PCR Amplification

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- Forensic Genomics Market, By Application:

- o Criminal Testing
- o Paternity & Familial Testing
- o Biodefense
- o Others

- Forensic Genomics Market, By Region:

- o North America
 - United States
 - Mexico
 - Canada
- o Europe
 - France
 - Germany
 - United Kingdom
 - Italy
 - Spain
- o Asia-Pacific
 - China
 - India
 - South Korea
 - Japan
 - Australia
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East and Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Forensic Genomics Market.

Available Customizations:

Global Forensic Genomics 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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