

U.S. Forensic Genomics Market Size, Share & Trends Analysis Report By Product (Software, Consumables & Kits), By Method (NGS, PCR Amplification), By Application (Criminal Testing, Paternity & Familial Testing), And Segment Forecasts, 2025 - 2033

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Abstracts

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U.S. Forensic Genomics Market Size & Trends

The U.S. forensic genomics market size was estimated at USD 256.5 million in 2024 and is projected to reach USD 941.0 million by 2033, expanding at a CAGR of 15.65% from 2025 to 2033. This growth is driven by advancements in genomic technologies, increasing adoption of forensic DNA analysis in criminal investigations, and rising government funding for forensic research and infrastructure. Moreover, the growing need for accurate and rapid identification methods in law enforcement and legal proceedings will fuel market expansion throughout the forecast period.

Increasing Crime Rates and Complexity of Investigations

Rising incidence of criminal activity, particularly violent crimes, sexual assaults, and homicides, is one of the primary drivers of the growth in the forensic genomics market. As the volume and complexity of criminal cases increases, there is a greater need for advanced tools to provide accurate and reliable evidence. Forensic genomics enables law enforcement agencies to analyze biological samples at a highly detailed genetic level, offering superior accuracy in suspect identification and victim profiling compared to traditional forensic methods.

Moreover, the growing number of unresolved and cold cases has prompted agencies to revisit archived evidence using modern genomic techniques, leading to breakthroughs and case resolutions. The demand for rapid turnaround in investigations and pressure to minimize wrongful convictions further underscores the importance of forensic genomics in the modern criminal justice system. These factors collectively contribute to sustained and increasing demand for genomic solutions in forensic applications across the U.S.

U.S. Forensic Genomics Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the U.S. forensic genomics market report based on product, method, and application:

U.S. Forensic Genomics Product Outlook (Revenue, USD Million, 2021 - 2033)

Analyzers & Sequencers

Software

Kits & Consumables

U.S. Forensic Genomics Method Outlook (Revenue, USD Million, 2021 - 2033)

Capillary Electrophoresis

Next-generation Sequencing

PCR Amplification

Others

U.S. Forensic Genomics Application Outlook (Revenue, USD Million, 2021 - 2033)

Criminal Testing

Paternity & Familial Testing

Others

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