

U.S. Next-generation Sequencing Library Preparation Market Size, Share & Trends Analysis Report By Sequencing Type (Targeted Genome Sequencing, Whole Genome Sequencing), By Product, By Application, By End Use, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/U19E09749620EN.html>

Date: July 2025

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: U19E09749620EN

Abstracts

This report can be delivered to the clients within 2 Business Days

U.S. Next-generation Sequencing Library Preparation Market Summary

The U.S. next-generation sequencing library preparation market size was estimated at USD 652.2 million in 2024 and is projected to reach USD 1.96 billion by 2033, growing at a CAGR of 13.09% from 2025 to 2033. Rapid advancements in sequencing technologies and bioinformatics have facilitated the detection of DNA variations.

Additionally, the broad adoption of Next-Generation Sequencing (NGS) and Whole-Genome Sequencing (WGS) allows for the simultaneous analysis of numerous genes on a single platform, enhancing the role of DNA sequencing in clinical diagnostics. These developments are anticipated to significantly propel market growth over the forecast period.

U.S. Next-generation Sequencing Library Preparation Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. next-generation sequencing library

preparation market report based on sequencing type, product, application, end use, and region:

Sequencing Type Outlook (Revenue, USD Million, 2021 - 2033)

Targeted Genome Sequencing

Whole Genome Sequencing

Whole Exome Sequencing

Other Sequencing Types

Product Outlook (Revenue, USD Million, 2021 - 2033)

Reagents & Consumables

DNA Library Preparation Kits

RNA Library Preparation Kits

Other Reagents & Consumables

Instruments

Application Outlook (Revenue, USD Million, 2021 - 2033)

Drug & Biomarker Discovery

Disease Diagnostics

Cancer Diagnostics

Reproductive Health Diagnostics

Infectious Disease Diagnostics

Other Disease Diagnostic Applications

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals and Clinics

Academic and Research Institutions

Pharmaceutical and Biotechnology Companies

Others

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