

Genomics Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Genomics Market was valued at USD 39 billion in 2024 and is estimated to grow at a CAGR of 15.4% to reach USD 162 billion by 2034.

The genomics industry is expanding swiftly, driven by the increasing prevalence of chronic and genetic disorders and the heightened emphasis on precision medicine. Genomics, which examines an organism's full DNA makeup, including all genes, offers transformative insights into disease mechanisms, genetic variations, and individualized treatment pathways. The market's momentum is further supported by technological progress in DNA sequencing, gene editing, and bioinformatics, along with the growing application of artificial intelligence and big data analytics. The use of genomics across healthcare and life sciences has accelerated its adoption in diagnostics, drug discovery, reproductive health, forensics, and agriculture. With genomics now vital to areas such as oncology, rare disease diagnosis, pharmacogenomics, and companion diagnostics, healthcare systems are increasingly integrating genomic tools to enable targeted therapies, reduce adverse drug reactions, and streamline drug development. Continuous regulatory support, combined with collaborative efforts between biotechnology firms and research institutions, is reinforcing genomics as the foundation of predictive and personalized healthcare.

The products segment held 67.1% share in 2024 and is expected to reach USD 105.7 billion by 2034, growing at a CAGR of 15.1%. This category includes essential instruments and consumables used in research and clinical applications. Technologies such as polymerase chain reaction systems, microarrays, and next-generation sequencing platforms are central to generating large-scale genomic data with improved efficiency, accuracy, and throughput. Consumables, including reagents, sequencing kits, and sample preparation materials, hold significant value as they are continuously

required for laboratory processes. The ongoing technological upgrades in both instruments and consumables are helping expand their adoption in hospitals, academic research, and biopharmaceutical industries.

The sequencing segment generated USD 14.8 billion in 2024. This technology remains a key growth engine, supported by advancements in precision, scalability, and cost-effectiveness. High-throughput sequencing methods enable simultaneous reading of extensive DNA and RNA sequences, offering unparalleled detail for genome and transcriptome studies. These innovations have accelerated scientific discovery, improved disease diagnosis, and expanded the role of sequencing in clinical applications, particularly in precision medicine and genetic screening. Continuous progress in sequencing platforms is ensuring their accessibility and integration into healthcare and research workflows.

North America Genomics Market held a 42.6% share in 2024, reflecting its strong research ecosystem, significant government and private investment, and widespread adoption of genomics in healthcare. The region's focus on precision medicine initiatives, robust clinical trial activity, and collaborations between biotechnology and academic institutions support continuous innovation. The demand for personalized therapies, advanced diagnostics, and early disease detection technologies remains particularly high. With major companies leading advancements in sequencing, bioinformatics, and diagnostic technologies, North America continues to shape the global genomics landscape through innovation and accessibility.

Leading companies operating in the Global Genomics Market include Thermo Fisher Scientific, QIAGEN, Agilent Technologies, Oxford Nanopore Technologies, Bio-Rad Laboratories, Danaher, F. Hoffmann-La Roche, Eurofins Scientific, Myriad Genetics, BGI Genomics, Eppendorf, Color Genomics, Pacific Biosciences of California, NVIDIA, Quest Diagnostics, and Illumina. To strengthen their position, major players in the genomics industry are pursuing strategies centered on technology innovation, partnerships, and expansion. Companies are investing heavily in advanced sequencing platforms and cloud-based bioinformatics tools to enhance data precision and accessibility. Strategic collaborations with pharmaceutical firms and research institutions are enabling the integration of genomics in drug discovery and clinical trials.

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