

# Global Next Generation Sequencing (NGS) Market Size to Reach USD 58.9 Billion by 2035 at 15% CAGR

*The Global Next Generation Sequencing (NGS) Market will grow from USD 12.65 billion in 2024 to USD 58.9 billion by 2035*

INDORE, INDIA, September 23, 2025 /EINPresswire.com/ -- The Global [Next Generation Sequencing \(NGS\) Market](#) is projected to grow from USD 12.65 billion in 2024 to approximately USD 58.9 billion by 2035, registering a CAGR of around 15.0% during 2024–2035. Rising applications in clinical diagnostics, personalized medicine, drug discovery, reproductive health, and genomics research are fueling this expansion.

NGS technologies deliver high-throughput, precise, and cost-effective sequencing solutions, enabling advancements in oncology, infectious disease monitoring, and rare genetic disorder diagnosis. The market is witnessing strong momentum from falling sequencing costs, AI-powered bioinformatics, and government-funded genomic initiatives worldwide.

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## Key Trends

- Growing demand for precision medicine and targeted therapies.
- Increasing use of AI, ML, and cloud platforms for genomic data interpretation.
- Expansion of single-cell sequencing and long-read technologies.
- Rapid adoption of portable sequencing devices for decentralized testing.
- Public-private partnerships and funding initiatives supporting national genomic programs.

## Limitations & Challenges

- High infrastructure and operational costs despite declining sequencing costs.
- Data storage, privacy, and management issues with large-scale genomic data.
- Complex regulatory and reimbursement frameworks across regions.
- Shortage of skilled professionals in bioinformatics and genomics.

- Limited accessibility in emerging and low-income markets.

Overall, the NGS market is projected to grow significantly, driven by technological advancements and increasing demand for genomic data.

The market is moderately consolidated, with a few global players dominating sequencing platforms while regional vendors compete in consumables and services. Companies are focusing on new product launches, AI-driven bioinformatics solutions, strategic collaborations, and acquisitions.

Key players in the NGS market include:

- Illumina, Inc.
- Thermo Fisher Scientific Inc.
- BGI Genomics Co., Ltd.
- Oxford Nanopore Technologies
- Pacific Biosciences of California, Inc. (PacBio)
- Roche Sequencing Solutions
- Agilent Technologies, Inc.
- QIAGEN N.V.
- PerkinElmer Inc.
- Eurofins Genomics

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- Illumina's restructuring and trade-related challenges in 2025 have reshaped competitive strategies, especially in Asia-Pacific.
- Oxford Nanopore and PacBio launched next-gen long-read systems with improved accuracy.
- Governments in US, UK, China, and Japan have expanded national genomics projects, boosting adoption.
- Increasing partnerships between AI companies and sequencing vendors to streamline data interpretation.

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## By Product Type

- Sequencing Instruments
- Consumables & Reagents
- Library Preparation Kits
- Bioinformatics Software & Services

By Technology

- Whole Genome Sequencing
- Whole Exome Sequencing
- Targeted Sequencing & Resequencing
- RNA Sequencing
- Single-Cell Sequencing

By Application

- Oncology
- Infectious Diseases
- Reproductive Health
- Genetic Disorders & Rare Diseases
- Drug Discovery & Development
- Agriculture & Animal Research

By End-User

- Hospitals & Clinics
- Research & Academic Institutes
- Pharmaceutical & Biotech Companies
- Contract Research Organizations (CROs)
- Diagnostic Laboratories

Global Genomics Market Segmentation (2024) by Region and Application

- North America – Largest market share due to advanced healthcare infrastructure, R&D investments, and strong presence of leading players.
- Europe – Significant adoption in clinical genomics, driven by national healthcare initiatives.
- Asia-Pacific – Fastest-growing region, with rapid adoption in China, India, and Japan, supported by rising healthcare investments.
- Latin America – Moderate growth through academic collaborations and gradual clinical adoption.
- Middle East & Africa – Emerging market with opportunities from healthcare modernization and government partnerships.

Global Genomics Market Segmentation (2024) by Technology & End-User

Year	Market Size (USD Billion)	CAGR (2024–2035)
2024	12.65	–
2030	~28.6	~15%

2035 ~58.9 15.0%

The NGS Market will continue to expand at double-digit growth rates, driven by personalized medicine adoption, technological breakthroughs, and global R&D investment. Vendors must focus on lowering sequencing costs, ensuring data privacy, and enabling accessibility across emerging economies to capture long-term opportunities.

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- Get comprehensive insights into the NGS market through 2035.
- Understand key growth drivers, restraints, and emerging opportunities.
- Identify top-performing regions, technologies, and applications.
- Benchmark major companies and their strategies, partnerships, and innovations.
- Access detailed market forecasts and segmentation analysis to support strategic planning.

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