

Global Comprehensive Genomic Profiling Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Comprehensive Genomic Profiling market size is expected to reach \$ 15343 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

Comprehensive Genomic Profiling refers to clinical diagnostic and precision oncology solutions that use targeted next-generation sequencing, whole-exome sequencing, whole-transcriptome sequencing, or integrated DNA and RNA analysis to profile a broad range of cancer-related genes and molecular biomarkers. Major targets include single nucleotide variants, insertions and deletions, copy number alterations, gene fusions and rearrangements, as well as genomic signatures such as tumor mutational burden, microsatellite instability, and homologous recombination deficiency. Commercial offerings include centralized laboratory testing services, tissue and liquid biopsy assay kits, integrated testing systems, and associated bioinformatics solutions. These products are primarily used for targeted therapy selection, immunotherapy assessment, clinical trial matching, molecular classification, and resistance analysis. Key upstream inputs include specimen collection components, nucleic acid extraction and library preparation reagents, capture probes, amplification enzymes, sequencing flow cells, quality controls, reference standards, sequencing platforms, bioinformatics algorithms, and genomic databases. Major downstream customers include hospitals, cancer centers, independent clinical laboratories, pathology laboratories, pharmaceutical and biotechnology companies, and clinical research organizations. The estimated industry gross margin is generally approximately 50%-70%.

The global Comprehensive Genomic Profiling market is shifting rapidly from sequential single-gene testing toward integrated analysis of multiple genes and variant classes in a single assay. As the number of targeted therapies, immunotherapy biomarkers, and

tumor-agnostic indications increases, sequential testing has become less efficient because of tissue consumption, longer turnaround times, and cumulative cost. Large genomic panels can evaluate multiple actionable alterations and complex genomic signatures in one test and are therefore gaining adoption among patients with advanced solid tumors, rare cancers, and limited standard treatment options. North America is dominated by centralized laboratory services, Europe and Japan rely more heavily on approved assay products and designated hospital networks, while China has developed a mixed structure combining third-party laboratories, hospital-based testing, and standardized domestic assay kits.

Tissue testing remains the foundation of Comprehensive Genomic Profiling, but liquid biopsy is becoming an important complementary option for patients with insufficient tissue, high biopsy risk, or a need for rapid results. Testing scope is expanding from targeted panels containing several hundred genes toward integrated DNA and RNA sequencing, matched tumor-normal analysis, whole-exome sequencing, and whole-transcriptome sequencing. RNA analysis improves the detection of gene fusions and abnormal splicing events, while matched-normal testing helps distinguish somatic alterations from germline variants and clonal hematopoiesis signals. Future competition will focus increasingly on performance in low-tumor-content specimens, fusion detection, turnaround time, clinical evidence, and the actionability of reported findings rather than on gene count alone.

Market growth is supported by the continued expansion of precision oncology, increasing numbers of tumor-agnostic targeted and immunotherapy indications, stronger clinical guideline recommendations, and broader availability of hospital NGS infrastructure. Drug development is gradually shifting from organ-of-origin classification toward molecular biomarker-driven patient selection. Pharmaceutical demand for companion diagnostics, patient screening, clinical trial matching, and real-world evidence provides testing companies with important revenue opportunities beyond routine patient testing. As sequencing costs decline, laboratory workflows become more automated, and reimbursement coverage improves in selected markets, Comprehensive Genomic Profiling is expected to expand from late-stage and rare cases toward earlier treatment stages and a broader patient population.

The industry nevertheless faces constraints related to specimen quality, testing costs, reimbursement, and the clinical conversion of genomic findings. Differences in gene coverage, sequencing depth, variant thresholds, and reporting rules may produce inconsistent results across laboratories. Some patients have potentially actionable alterations but cannot access matched treatment because of drug availability, regulatory

indications, or the geographic location of relevant clinical trials. Competition between hospital-developed assays and centralized laboratory services may also place pressure on testing prices and lead to duplicated infrastructure investment. Future competitive advantage will increasingly depend on regulatory approvals, companion diagnostic partnerships, liquid biopsy performance, clinical interpretation capabilities, reimbursement access, and real-world evidence demonstrating clinical utility.

This report studies the global Comprehensive Genomic Profiling demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Comprehensive Genomic Profiling, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Comprehensive Genomic Profiling that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Comprehensive Genomic Profiling total market, 2021-2032, (USD Million)

Global Comprehensive Genomic Profiling total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Comprehensive Genomic Profiling total market, key domestic companies, and share, (USD Million)

Global Comprehensive Genomic Profiling revenue by player, revenue and market share 2021-2026, (USD Million)

Global Comprehensive Genomic Profiling total market by Type, CAGR, 2021-2032, (USD Million)

Global Comprehensive Genomic Profiling total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Comprehensive Genomic Profiling market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Roche, Guardant Health, Caris Life Sciences, Tempus AI, Labcorp, NeoGenomics, Exact Sciences, Personalis, Illumina, Thermo Fisher Scientific, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Comprehensive Genomic Profiling market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Comprehensive Genomic Profiling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Comprehensive Genomic Profiling Market, Segmentation by Type:

Tissue-based Profiling

Liquid Biopsy Profiling

Other

Global Comprehensive Genomic Profiling Market, Segmentation by Testing Scope:

Medium Panels (50?199 Genes)

Large Panels (200?599 Genes)

Extended Panels (600?999 Genes)

Other

Global Comprehensive Genomic Profiling Market, Segmentation by Sequencing Approach:

Targeted DNA Sequencing

Integrated DNA and RNA Sequencing

Whole-exome Sequencing

Whole-transcriptome Sequencing

Other

Global Comprehensive Genomic Profiling Market, Segmentation by Application:

Hospitals and Cancer Centers

Independent Clinical Laboratories

Pharmaceutical and Biotechnology Companies

Other

Companies Profiled:

Roche

Guardant Health

Caris Life Sciences

Tempus AI

Labcorp

NeoGenomics

Exact Sciences

Personalis

Illumina

Thermo Fisher Scientific

QIAGEN

Agilent Technologies

SOPHiA GENETICS

Sysmex

Burning Rock Biotech

Genetron Health

Geneseeq

BGI Genomics

Amoy Diagnostics

Key Questions Answered

1. How big is the global Comprehensive Genomic Profiling market?
2. What is the demand of the global Comprehensive Genomic Profiling market?

3. What is the year over year growth of the global Comprehensive Genomic Profiling market?
4. What is the total value of the global Comprehensive Genomic Profiling market?
5. Who are the Major Players in the global Comprehensive Genomic Profiling market?
6. What are the growth factors driving the market demand?

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