

Gene Expression Analysis Market by Product (Reagents, Enzymes, Kits, Gene Chips, PCR, NGS, DNA Microarray), Service (RNA Sequencing, Data Analysis), Application (Drug discovery & Development, Clinical Diagnostics), End User, and Region - Global Forecast to 2031

Market Report | 2026-04-15 | 511 pages | MarketsandMarkets

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Report description:

The gene expression analysis market is expected to reach USD 5.93 billion in 2031 from USD 4.23 billion in 2026, at a CAGR of 7.0% during the forecast period. The market is driven by the increasing adoption of transcriptomics technologies and the growing focus on precision medicine and personalized therapeutics. Techniques such as next-generation sequencing, PCR, and microarrays enable accurate and high-throughput analysis of gene activity, supporting advancements in disease research and diagnostics. Furthermore, the rising use of gene expression profiling in biomarker discovery and drug development enhances research efficiency and clinical outcomes. However, high instrument costs, complex data analysis, and the need for skilled professionals continue to limit market growth.

<https://mnmimg.marketsandmarkets.com/Images/gene-expression-analysis-market-img-overview.webp>

"The reagents & consumables segment is expected to grow at the highest CAGR during the forecast period."

The reagents & consumables segment is projected to grow at the highest CAGR in the gene expression analysis market due to the repeated and high-volume usage of kits, enzymes, probes, and other consumables across research and clinical workflows. These products are essential for techniques such as PCR, next-generation sequencing, and microarray analysis, ensuring consistent demand. The increasing number of genomics and transcriptomics studies, along with the rising adoption of gene expression profiling in diagnostics and drug research, is further driving segment growth. Additionally, continuous product innovations and the need for reliable and high-quality reagents to ensure accurate results contribute to the expansion of this segment. Their

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cost-effectiveness and recurring purchase nature make reagents & consumables a key growth driver in the market.

"Drug discovery & development segment holds the largest share of the market."

The drug discovery & development segment accounts for the largest share of the gene expression analysis market, driven by the extensive use of gene expression profiling in identifying and validating drug targets. These technologies play a critical role in understanding gene function, disease pathways, and therapeutic responses, thereby improving the efficiency of drug development processes. Pharmaceutical and biotechnology companies increasingly rely on gene expression analysis for biomarker discovery, toxicity assessment, and efficacy evaluation. The growing focus on precision medicine and targeted therapies, along with rising R&D investments, further supports the dominance of this segment.

"The US is projected to grow at the highest CAGR during the forecast period."

The US is projected to grow at the highest CAGR in the gene expression analysis market due to its strong presence of leading biotechnology and pharmaceutical companies, advanced research infrastructure, and increasing focus on genomics and transcriptomics studies. Rising adoption of gene expression profiling in areas such as oncology, genetic disorders, and precision medicine is a key factor driving market growth. Technologies including next-generation sequencing, PCR, and microarrays are widely used across research and clinical applications, further boosting demand. Additionally, supportive regulatory frameworks, high funding for genomic research, and continuous advancements in analytical technologies contribute to market expansion. The primary interviews conducted for this report can be categorized as follows:

-□By Respondent: Supply Side - 70% and Demand Side - 30%

-□By Designation: Managers - 45%, CXOs and Directors - 30%, and Executives - 25%

-□By Region: North America - 40%, Europe - 25%, Asia Pacific - 25%, Latin America - 5%, the Middle East & Africa - 5%

Thermo Fisher Scientific Inc. (US), Illumina, Inc. (US), Bio-Rad Laboratories, Inc. (US), QIAGEN (Netherlands), F. Hoffmann-La Roche Ltd. (Switzerland), Revvity (US), PacBio (US), Agilent Technologies, Inc. (US), Sysmex Corporation (Japan), BGI (China), Eurofins Scientific (Luxembourg), Standard BioTools (US), Oxford Nanopore Technologies plc (UK), GenScript (US), Takara Bio Inc. (Japan), Danaher Corporation (US), Bruker (US), 10X Genomics (US), Zymo Research Corporation (US), Twist Bioscience (US), Promega Corporation (US), LGC Limited (UK), CD Genomics (US), BioSpyder Technologies Inc. (US), and New England Biolabs (US) are some of the key companies offering gene expression analysis products & services.

Research Coverage

This research report categorizes the gene expression analysis market by offering (reagents & consumables [assays & kits, enzymes, DNA chips, other reagents & consumables], instruments [PCR, NGS, DNA microarray, other instruments], services [gene expression analysis services {RNA sequencing services, other services}, bioinformatics solutions]), application (drug discovery & development, clinical diagnostics, other applications), end user (pharmaceutical & biotechnology companies, academic & research institutes, other end users), and region (North America, Europe, Asia Pacific, Latin America, Middle East, And Africa).

The report's scope encompasses detailed information about the primary factors, including drivers, restraints, challenges, and opportunities, that influence the growth of the gene expression analysis market. A comprehensive analysis of key industry players has been performed to provide insights into their business overview, product portfolio, key strategies, new product launches, acquisitions, and recent developments related to the gene expression analysis market. This report also includes a competitive analysis of emerging startups in the gene expression analysis industry ecosystem.

Key Benefits of Buying the Report

The report will assist market leaders and new entrants by providing revenue estimates for the overall market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to position their businesses effectively and develop suitable go-to-market strategies. This report will enable stakeholders to grasp the market's pulse and offer information on key market drivers, restraints, opportunities, and challenges.

The report provides insights into the following pointers:

-□Analysis of key drivers (growing use of gene expression analysis in drug discovery and development, expanding applications in disease research, and rising adoption of gene expression-based diagnostics and prognostics tests), restraints (High cost of

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instruments and complexity of data analysis and interpretation), opportunities (growing adoption of single-cell analysis technologies and expansion of gene expression analysis in clinical and translational research), and challenges (lack of standardization) influencing the market growth

-□Product Development/Innovation: Detailed insights into newly launched products and innovations in the gene expression analysis market

-□Market Development: Comprehensive information about lucrative markets and analysis of the market across varied regions

-□Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the gene expression analysis market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and products & services of leading players, Thermo Fisher Scientific Inc. (US), Illumina, Inc. (US), Bio-Rad Laboratories, Inc. (US), QIAGEN (Netherlands), F. Hoffmann-La Roche Ltd. (Switzerland), Revvity (US), PacBio (US), Agilent Technologies, Inc. (US), Sysmex Corporation (Japan), BGI (China), Eurofins Scientific (Luxembourg), Standard BioTools (US), Oxford Nanopore Technologies plc (UK), GenScript (US), Takara Bio Inc. (Japan), among others, for the gene expression analysis market

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