

# Gene Expression Analysis Market by Product (Reagents, Enzymes, kits, DNA Chips, PCR, NGS, DNA Microarray), Service (RNA Sequencing, Bioinformatics), Application (Drug discovery & development, clinical diagnostics), End User - Global Forecast to 2029

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## Abstracts

The gene expression analysis market is projected to reach USD 6.2 billion by 2029 from an estimated USD 4.2 billion in 2024, at a CAGR of 8.1% during the forecast period.

The growth of this market can be attributed to the growing investments in genomics research and the availability of government funding for genetic studies further contributes to the market's expansion. As the field continues to evolve, with a deeper understanding of gene regulation and molecular mechanisms, the gene expression analysis market is poised for continued growth and innovation.

“The PCR instrument segment accounted for the largest share by instruments in 2023.”

In 2023, the PCR segment accounted for the largest share of instruments sub-segment of product & service in the global gene expression analysis market. PCR instruments are widely adopted across various industries, including pharmaceuticals, biotechnology, academic research, clinical diagnostics, and forensic sciences. This broad application range contributes to the substantial market share of PCR instruments.

““The Asia Pacific region is grows at the highest CAGR in the gene expression analysis market during the forecast period of 2024-2029.”

The Asia Pacific region is expected to grow at the highest growth rate during the forecast period. This region is anticipated to experience rapid growth, fueled by expanding proteomics and genomics research, augmented research funding, amplified investments from pharmaceutical and biotechnology enterprises, and rising awareness surrounding personalized therapeutics. India and China are expected to display the highest growth in the Asia Pacific region, particularly due to the rise in affordability and awareness related to the benefits of diagnosis.

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 -45%, Europe -20%, Asia-Pacific -20%, Latin America -10%, Middle East & Africa- 5%

List of Companies Profiled in the Report:

Thermo Fisher Scientific Inc (US)

Bio-Rad Laboratories Inc. (US)

Illumina Inc (US)

QIAGEN (Netherlands)

F. Hoffmann-La Roche (Switzerland)

Revvity (US)

PacBio (US)

Agilent Technologies Inc (US)

Oxford Gene Technology IP Limited (UK)

BGI (China)

Eurofins Scientific (Luxembourg)

Standard BioTools (US)

Oxford Nanopore Technologies plc (UK)

GenScript (US)

Takara Bio Inc (Japan)

10x Genomics (US)

Zymo Research Corporation (US)

Twist Bioscience (US)

Promega Corporation (US)

LGC Limited (UK)

CD Genomics (US)

NanoString Technologies Inc. (US)

BioSpyder, Inc (US)

Integrated DNA Technologies, Inc (US)

New England Biolabs (US).

#### Research Coverage:

This research report categorizes the gene expression analysis market by product & service (instruments, reagents & consumables and services (gene expression analysis service and bioinformatics service)), application (clinical diagnostics, drug discovery & development, and other applications (developmental biology, pharmacogenomics,

environmental response, forensic research, agricultural research)) , end user (pharmaceutical & biotechnology companies, academic & research institutes, and other end users (clinical laboratories, CROs, forensic laboratories, agricultural & environmental organizations)), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, challenges, opportunities, and trends influencing the growth of the gene expression analysis market. The report conducts in-depth analysis of major industry players, offering insights into their business profiles, product/service offerings, and strategic initiatives including collaborations, partnerships, expansions, agreements, acquisitions, and recent developments within the gene expression analysis market. Furthermore, it encompasses competitive analysis of leading players as well as emerging startups within the gene expression analysis market ecosystem.

#### Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall gene expression analysis market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Advancement in gene editing technologies, increasing funding initiatives for genomic research, growing preference for therapeutic application, declining sequencing cost), restraints (high cost of instruments & consumables, concerns associated with data privacy and security), opportunities (application expansion across non-medical fields, machine learning and ai, growing focus on single-cell analysis), and challenges (prolonged timelines for approval, data interpretation challenges) influencing the growth of the market.

**Product Development/Innovation:** Detailed insights on newly launched products of the gene expression analysis market

**Market Development:** Comprehensive information about lucrative markets - the report analyses the market across varied regions.

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

Competitive Assessment: Thermo Fisher Scientific Inc (US), Bio-Rad Laboratories Inc. (US), Illumina Inc (US), QIAGEN (Netherlands), F. Hoffmann-La Roche (Switzerland), Revvity (US), PacBio (US), Agilent Technologies Inc (US), Oxford Gene Technology IP Limited (UK), BGI (China), Eurofins Scientific (Luxembourg), Standard BioTools (US), Oxford Nanopore Technologies plc (UK), GenScript (US), Takara Bio Inc (Japan), 10x Genomics (US), Zymo Research Corporation (US), Twist Bioscience (US), Promega Corporation (US), LGC Limited (UK), CD Genomics (US), NanoString Technologies Inc. (US), BioSpyder, Inc (US), Integrated DNA Technologies, Inc (US) and New England Biolabs (US), among others in the market.

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