

**Gene Expression Analysis Market Report by Products & Services (Consumables, Instruments, Services), Technology (Polymerase Chain Reaction (PCR), Next Generation Sequencing (NGS), DNA Microarray, Sanger Sequencing, and Others), Capacity (Low-to Mid-Plex Gene Expression Analysis, High-Plex Gene Expression Analysis), End-User (Pharmaceutical and Biotech Companies, Academic Institutes and Research Centers, and Others), and Region 2024-2032**

Market Report | 2024-04-08 | 136 pages | IMARC Group

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**Report description:**

The global gene expression analysis market size reached US\$ 5.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 11.0 Billion by 2032, exhibiting a growth rate (CAGR) of 8.6% during 2024-2032.

Gene expression analysis (GEA) is the method of extracting data from a gene to investigate the behaviour of biological systems. It involves different processes such as gene transcription, translation, post-translational modification of protein and RNA splicing. The data obtained from this analysis is used for the production of proteins, Ribonucleic Acid (RNA) and various microbiological products. They are further utilized for the development of new drugs and improving the existing diagnostic methods. GEA is now widely considered to be essential in explaining the mechanisms that cause numerous medical ailments, owing to which it finds extensive applications in pharmacogenomics, biomarking, toxicology and diagnostics.

The increasing adoption of targeted molecular therapeutics, along with the growing demand for personalized medicines, is among the key factors driving the growth of the market. GEA has proven to be a powerful tool in molecular biology studies, which are used to understand the functioning of genes, diagnose ailments and facilitate drug development. Furthermore, the growing

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prevalence of chronic diseases, such as cancer, tuberculosis, and cardiovascular and genetic disorders is providing a significant boost to the market growth. Additionally, the development of personalized medicines to cure these ailments has enabled the modifications of diagnostic and treatment methods according to the individual patient requirement. Moreover, various technological advancements, such as the advent of Next Generation Sequencing (NGS), along with the development of genomic databases, higher success rates of GEA and enhanced focus on research and development (R&D) in gene therapy, are further projected to drive the market growth.

**Key Market Segmentation:**

IMARC Group provides an analysis of the key trends in each sub-segment of the global gene expression analysis market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on products & services, technology, capacity and end-user.

**Breakup by Products & Services:**

- Consumables
- Instruments
- Services

**Breakup by Technology:**

- Polymerase Chain Reaction (PCR)
- Next Generation Sequencing (NGS)
- DNA Microarray
- Sanger Sequencing
- Others

**Breakup by Capacity:**

- Low-to Mid-Plex Gene Expression Analysis
- High-Plex Gene Expression Analysis

**Breakup by End-User:**

- Pharmaceutical and Biotech Companies
- Academic Institutes and Research Centers
- Others

**Breakup by Region:**

- North America
  - United States
  - Canada
- Europe
  - Germany
  - France
  - United Kingdom
  - Italy

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Others  
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Turkey  
Saudi Arabia  
Iran  
United Arab Emirates  
Others

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Agilent Technologies, Inc., BGI Genomics Co., Ltd., Bio-Rad Laboratories, Inc., Eurofins GSC Lux SARL, F. Hoffmann-La Roche Ltd, GE Healthcare, Illumina, Inc., Oxford Gene Technology IP Limited, Pacific Biosciences of California Inc., PerkinElmer Inc., QIAGEN GmbH, Thermo Fisher Scientific Inc. etc.

#### Key Questions Answered in This Report

1. How big is the global gene expression analysis market?
2. What is the expected growth rate of the global gene expression analysis market during 2024-2032?
3. What are the key factors driving the global gene expression analysis market?
4. What has been the impact of COVID-19 on the global gene expression analysis market?
5. What is the breakup of the global gene expression analysis market based on the product & services?
6. What is the breakup of the global gene expression analysis market based on the technology?
7. What is the breakup of the global gene expression analysis market based on the capacity?
8. What is the breakup of the global gene expression analysis market based on the end-user?
9. What are the key regions in the global gene expression analysis market?
10. Who are the key players/companies in the global gene expression analysis market?

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