

## **Asia Pacific Gene Expression Market Size and Share - Outlook Report, Forecast Trends and Growth Analysis (2025-2034)**

Market Report | 2025-06-20 | 300 pages | EMR Inc.

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### **Report description:**

The global gene expression market size was valued at USD 13.30 Billion in 2024, with Asia Pacific holding a significant market share. It is driven by the growing demand for personalized medicine in the region. The market is expected to grow at a CAGR of 10.40% during the forecast period of 2025-2034, with the values likely to attain USD 35.77 Billion by 2034.

#### Asia Pacific Gene Expression Market Analysis

Gene expression is a process by which information encoded in a gene is used in the synthesis of a functional gene product which enables to produce proteins or end products. It involves different processes such as gene transcription, translation, post-translational modification of protein and RNA splicing among others. Asia Pacific is accountable for 50% of the overall new cancer cases worldwide. The cancer associated mortality rate is likely to increase by 36% in the coming years. With a deeper understanding of human physiology and rising burden of chronic illnesses like cancer and other rare diseases, gene expression finds its application in multiple medical domains. Consequently, the Asia Pacific gene expression market demand has witness growth in recent years.

In May 2023, Thermo Fisher Scientific Inc. and Pfizer entered into a collaboration agreement with an aim to enhance the local access to next-generation sequencing (NGS) tests for breast and lung cancer patients across several countries. The initiative was specifically aimed at regions where advanced genomic testing had been unavailable or limited. The access to NGS testing provides quicker gene analysis, enabling healthcare providers to efficiently choose the appropriate treatments for the individual patient. The Asia Pacific gene expression market growth is fuelled by such initiatives.

Increasing incorporation of cutting-edge technologies to yield most effective results in disease management and treatment is one of the major market trends. In November 2023, AstraZeneca and University of Cambridge expanded functional genomics partnership. At the university, scientists engaged in the utilization of advanced CRISPR technology to understand the genetic

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mechanisms better. This can lead to the development of effective treatment for multiple diseases including severe respiratory, cardiovascular, and metabolic diseases.

One of the significant Asia Pacific gene expression market trends include increased healthcare expenditure and investments to meet the rising demand for molecular diagnostics and personalized medicine. The expansion of health and pharmaceutical industry in emerging economies such as India, South Korea and Singapore has led to a greater demand for gene expression profiling. This can be attributed to increased incidence of drug discovery and development processes, which includes target identification, biomarker discovery, and preclinical studies.

#### Asia Pacific Gene Expression Market Segmentation

Asia Pacific Gene Expression Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

##### Breakup by Process

- Sample Collection
- Purification
- cDNA Synthesis & Conversion
- PCR Analysis
- Data Analysis & Interpretation

##### Breakup by Application

- Clinical Diagnostics
- Drug Discovery & Development
- Research Activities
- Other Applications

##### Breakup by Technique

- RNA Expression
- Promoter Analysis
- Protein Expression & Posttranslational Modification Analysis

##### Breakup by Product

- Consumables
- Instruments
- Services

##### Breakup by End User

- Pharmaceutical and Biotechnology Companies
- Diagnostic Laboratories
- Academic Research Centers

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## Breakup by Region

- Japan
- India
- ASEAN
- Australia
- Others

## Asia Pacific Gene Expression Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- F. Hoffmann-La Roche Ltd
- QIAGEN
- Oxford Gene Technology (OGT) Group
- Eurofins Scientific
- LGC Limited
- Promega Corporation
- Takara Bio Inc.
- PacBio
- Smith & Nephew plc
- Abbott

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

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