

Gene Expression Analysis Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Report description:

Market Overview:

The global gene expression analysis market size reached US\$ 4.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.2 Billion by 2028, exhibiting a growth rate (CAGR) of 9.2% during 2023-2028.

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 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:

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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 level from 2023-2028. 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
 - Spain
 - Russia
 - Others
- Asia Pacific
 - China
 - Japan
 - India

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South Korea
Australia
Indonesia
Others
Latin America
Brazil
Mexico
Argentina
Colombia
Chile
Peru
Others
Middle East and Africa
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 2023-2028?
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?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation

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- 2.4.1 Bottom-Up Approach
- 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Gene Expression Analysis Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact Of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Products & Services
 - 6.1 Consumables
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Instruments
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Services
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 7 Market Breakup by Technology
 - 7.1 Polymerase Chain Reaction (PCR)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Next Generation Sequencing (NGS)
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 DNA Microarray
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Sanger Sequencing
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 8 Market Breakup by Capacity
 - 8.1 Low-to Mid-Plex Gene Expression Analysis
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 High-Plex Gene Expression Analysis
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 9 Market Breakup by End-User
 - 9.1 Pharmaceutical and Biotech Companies

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- 9.1.1 Market Trends
- 9.1.2 Market Forecast
- 9.2 Academic Institutes and Research Centers
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Others
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 10 Market Breakup by Region
 - 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
 - 10.2 Europe
 - 10.2.1 Germany
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 France
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 United Kingdom
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 Italy
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Spain
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Russia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
 - 10.3 Asia-Pacific
 - 10.3.1 China
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 Japan
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 India
 - 10.3.3.1 Market Trends

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- 10.3.3.2 Market Forecast
- 10.3.4 South Korea
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Australia
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Indonesia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Argentina
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
 - 10.4.4 Colombia
 - 10.4.4.1 Market Trends
 - 10.4.4.2 Market Forecast
 - 10.4.5 Chile
 - 10.4.5.1 Market Trends
 - 10.4.5.2 Market Forecast
 - 10.4.6 Peru
 - 10.4.6.1 Market Trends
 - 10.4.6.2 Market Forecast
 - 10.4.7 Others
 - 10.4.7.1 Market Trends
 - 10.4.7.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Turkey
 - 10.5.1.1 Market Trends
 - 10.5.1.2 Market Forecast
 - 10.5.2 Saudi Arabia
 - 10.5.2.1 Market Trends
 - 10.5.2.2 Market Forecast
 - 10.5.3 Iran
 - 10.5.3.1 Market Trends
 - 10.5.3.2 Market Forecast
 - 10.5.4 United Arab Emirates
 - 10.5.4.1 Market Trends

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- 10.5.4.2 Market Forecast
- 10.5.5 Others
 - 10.5.5.1 Market Trends
 - 10.5.5.2 Market Forecast
- 11 SWOT Analysis
 - 11.1 Overview
 - 11.2 Strengths
 - 11.3 Weaknesses
 - 11.4 Opportunities
 - 11.5 Threats
- 12 Value Chain Analysis
 - 12.1 Overview
 - 12.2 Inbound Logistics
 - 12.3 Operations
 - 12.4 Outbound Logistics
 - 12.5 Marketing and Sales
 - 12.6 Service
- 13 Porters Five Forces Analysis
 - 13.1 Overview
 - 13.2 Bargaining Power of Buyers
 - 13.3 Bargaining Power of Suppliers
 - 13.4 Degree of Competition
 - 13.5 Threat of New Entrants
 - 13.6 Threat of Substitutes
- 14 Price Indicators
- 15 Competitive Landscape
 - 15.1 Market Structure
 - 15.2 Key Players
 - 15.3 Profiles of Key Players
 - 15.3.1 Agilent Technologies, Inc.
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis
 - 15.3.2 BGI Genomics Co., Ltd.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 Bio-Rad Laboratories, Inc.
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4 Eurofins GSC Lux SARL
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.5 F. Hoffmann-La Roche Ltd
 - 15.3.5.1 Company Overview

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- 15.3.5.2 Product Portfolio
- 15.3.5.3 Financials
- 15.3.6 GE Healthcare
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
- 15.3.7 Illumina, Inc.
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8 Oxford Gene Technology IP Limited
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
- 15.3.9 Pacific Biosciences of California Inc.
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
- 15.3.10 PerkinElmer Inc.
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 QIAGEN GmbH
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials
- 15.3.12 Thermo Fisher Scientific Inc.
 - 15.3.12.1 Company Overview
 - 15.3.12.2 Product Portfolio
 - 15.3.12.3 Financials
 - 15.3.12.4 SWOT Analysis

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