

Global Gene Expression Screening Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gene Expression Screening Service market size was valued at US\$ 8510 million in 2025 and is forecast to a readjusted size of US\$ 16167 million by 2032 with a CAGR of 9.6% during review period.

Gene expression screening services are outsourced technical services that utilize platforms such as qPCR, RT-qPCR, gene microarrays, RNA-seq, high-throughput sequencing, transcriptome analysis, or multiplex detection systems to detect, compare, and screen for target gene or whole-genome expression levels in cells, tissues, animal models, clinical samples, or drug-treated samples. These services typically encompass steps such as sample receipt and quality control, RNA extraction, reverse transcription, library construction or microarray hybridization, sequencing/detection, data normalization, differential expression analysis, pathway enrichment analysis, candidate gene screening, and report delivery. They are primarily applied in areas such as drug target discovery, disease mechanism research, biomarker screening, drug efficacy evaluation, toxicology studies, cellular function validation, and agricultural or animal breeding research. Common technical platforms for gene expression screening include qPCR, microarrays, and RNA-seq; microarrays are used to measure gene expression patterns, qPCR is used to quantify target gene expression, and multiplex qPCR allows for the detection of multiple target genes in a single reaction.

The upstream segment of the gene expression screening service industry chain primarily includes sample sources, reagents (for RNA extraction, reverse transcription, qPCR, sequencing, and library construction), equipment (sequencers and real-time quantitative PCR instruments), bioinformatics analysis software, and laboratory

consumables. The midstream segment consists of service providers responsible for sample quality control, RNA extraction, detection (via qPCR, microarrays, or RNA-seq), data analysis (differential expression and pathway enrichment), candidate gene screening, and report delivery; representative providers include gene sequencing companies, Contract Research Organizations (CROs), third-party medical testing laboratories, and scientific research outsourcing platforms. Downstream clients mainly include universities and research institutes, pharmaceutical companies, biotechnology firms, hospitals, agricultural breeding enterprises, animal testing facilities, and clinical translational research institutions; these clients utilize the services for drug target discovery, disease mechanism research, biomarker screening, drug efficacy evaluation, toxicology studies, and agricultural trait screening. The gross profit margin for gene expression screening services is approximately 51%.

From the demand perspective, the growth of gene expression screening services is primarily driven by the continued expansion of life science research, drug R&D, and precision medicine. As research into areas such as oncology, immunology, metabolic disorders, and neurodegenerative diseases deepens, research institutions and pharmaceutical companies require insights into differential gene expression to identify disease mechanisms, drug targets, and biomarkers. Unlike single-gene testing, gene expression screening allows for the observation of global changes in samples across various treatments, disease states, or time points at the transcriptome level; consequently, it holds significant value for drug discovery, efficacy evaluation, toxicology analysis, and the development of companion diagnostics.

From the technical perspective, gene expression screening services are evolving from traditional qPCR and microarray technologies toward RNA-seq, single-cell sequencing, and multi-omics integrative analysis. While qPCR remains suitable for low-cost, targeted gene validation and small-scale sample testing, and microarrays are ideal for standardized, high-throughput batch screening, RNA-seq offers superior throughput, a wider dynamic range, and the ability to discover novel transcripts. Future competitiveness among service providers will hinge not only on experimental capabilities but also on sample quality control, library construction stability, bioinformatics expertise, database accumulation, AI-assisted screening, and the ability to generate interpretable reports.

From the competitive landscape perspective, the gene expression screening service industry presents moderate barriers to entry, though high-end, customized projects entail significant hurdles. Price competition is intense for standard qPCR, microarray, and routine RNA-seq services, with profit margins vulnerable to declining sequencing

costs and service commoditization. In contrast, projects catering to pharmaceutical CROs, clinical translation, single-cell expression profiling, multi-omics integration, and complex disease models demand higher standards in experimental design, data analysis, regulatory compliance, and delivery experience, thereby offering relatively higher gross margins. The industry is poised to evolve toward an integrated model combining testing services, bioinformatics analysis, target interpretation, and validation experiments; companies capable of providing such end-to-end services will be better positioned to secure long-term clients.

This report is a detailed and comprehensive analysis for global Gene Expression Screening Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gene Expression Screening Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Gene Expression Screening Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Gene Expression Screening Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Gene Expression Screening Service market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gene Expression Screening Service

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Gene Expression Screening Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Azenta Life Sciences, Charles River Laboratories, CD Genomics, LC Sciences, Arraystar, Eurofins Genomics, Source BioScience, Microsynth, CeGaT, GenXPro, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Gene Expression Screening Service market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High-Throughput Screening

Low-Throughput Screening

Market segment by Number of Genes Detected

Small-Scale Gene Screening (1?20 Genes)

Targeted Gene Panel Screening (21?500 Genes)

High-Throughput Gene Panel Screening (501?5,000 Genes)

Market segment by Sequencing Depth

Low-Depth Expression Screening

Standard-Depth Expression Screening

Deep Transcriptome Screening

Market segment by Application

Pharmaceutical Industry

Agricultural Industry

Environmental Science

Others

Market segment by players, this report covers

Azenta Life Sciences

Charles River Laboratories

CD Genomics

LC Sciences

Arraystar

Eurofins Genomics

Source BioScience

Microsynth

CeGaT

GenXPro

Novogene

BGI Genomics

OE Biotech

Majorbio

Biomarker Technologies

Gene Denovo

Personalbio

Takara Bio

DNA Chip Research

Hokkaido System Science

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Gene Expression Screening Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Gene Expression Screening Service, with revenue, gross margin, and global market share of Gene Expression Screening Service from 2021 to 2026.

Chapter 3, the Gene Expression Screening Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Gene Expression Screening Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Gene Expression Screening Service.

Chapter 13, to describe Gene Expression Screening Service research findings and conclusion.

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