

# **Gene Expression Market Size, Share & Trends Analysis Report By Process, By Product (DNA Chip/Microarray, Kits & Reagents), By Technique (Promoter Analysis, RNA Exp.), By Capacity, By Application, And Segment Forecasts, 2021 - 2028**

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## **Abstracts**

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### **Gene Expression Market Growth & Trends**

The global gene expression market size is anticipated to reach USD 19.4 billion by 2028 registering a CAGR of 9.96% from 2021 to 2028, according to a new report by Grand View Research, Inc. Rise in investments for the development of alternative drug discovery approaches coupled with an increase in research activities for genetic studies is expected to drive the global market.

A rise in awareness about the potential application of genetic studies has led to an increase in investments for the development and launch of novel products. For instance, in August 2020, Lexogen GmbH launched the QuantSeq-Pool Sample-Barcoded 3' mRNA-Seq Library Prep Kit to expedite multiplexing capacities during gene expression profiling. The company's new QuantSeq-Pool kit also facilitates the sequencing of up to 36,864 RNA samples in parallel, thereby reducing cost and time.

Furthermore, the decrease in cost associated with sequencing posed as a major driver in the last few years. According to the National Human Genome Research Institute (NHGRI), the cost of sequencing per genome reduced from USD 46.77 thousand in 2010 to USD 0.689 thousand in 2020. This dramatic 98.5% decline in sequencing costs within a decade has increased research involving genomic expression profiling studies.

## Gene Expression Market Report Highlights

cDNA synthesis & conversion dominated the process segment in 2020. High demand for personalized medicine coupled with technological advancements in sequencing techniques has enhanced the application of cDNA synthesis to produce genomic libraries

Moreover, the introduction of systems that provide direct library synthesis has eliminated the need for prior steps, which increases revenue share

Kits and reagents product generated the largest revenue in 2020 due to their high usage during the process

In addition, ongoing innovation in the kits and reagents dedicated for specific applications contributes to the highest share of the segment

High-Plex capacity is expected to register the fastest CAGR during the forecast period owing to the higher accuracy and increased application in cancer research

RNA exp. was the largest revenue-contributing technique in 2020 owing to higher adoption of RNA exp. analysis

Moreover, the introduction of high-throughput validation methods, such as targeted RNA sequencing, which are useful in broader screening technologies, has increased the revenue generation in the segment

The drug discovery & development segment accounted for the largest revenue share in 2020 as Gene Exp. Signature (GES) is commonly used for the development of novel molecules for multifactorial cellular diseases like cancer, diabetes, tuberculosis, malaria, AIDS, and other infectious diseases

North America was the dominant regional market in 2020. This can be attributed to the high adoption of advanced gene exp. technology in the region

Major market participants, such as Thermo Fisher Scientific, Inc. and Agilent Technologies, have undertaken strategic initiatives to strengthen their position in the market

In March 2020, Thermo Fisher Scientific, Inc. launched the PowerTrack SYBR Green PCR Master Mix for real-time PCR workflow. The product is intended to amplify targets for precise analysis

## Contents

### CHAPTER 1 RESEARCH METHODOLOGY

- 1.1 Information procurement
  - 1.1.1 Purchased database:
  - 1.1.2 GVR's Internal Database
- 1.2 Information or Data Analysis
- 1.3 Market Formulation & Validation

### CHAPTER 2 EXECUTIVE SUMMARY

### CHAPTER 3 GENE EXPRESSION MARKET VARIABLES, TRENDS& SCOPE

- 3.1 Market Segmentation & Scope
  - 3.1.1 Market driver analysis
    - 3.1.1.1 Declining price of sequencing
      - 3.1.1.1.1 Decline in cost of per genome sequencing
      - 3.1.1.1.2 Decline in cost of per megabase DNA sequencing
    - 3.1.1.2 Technological advances that enhance gene expression analysis results
    - 3.1.1.3 High investment in genomic research
      - 3.1.1.3.1 Estimates of Research, Condition, and Disease Categories (RCDC) funding for cancer genomics
    - 3.1.1.4 High cancer incidence
    - 3.1.1.5 Increased focus on precision medicine
  - 3.1.2 Market restraint analysis
    - 3.1.2.1 High price of important instruments
    - 3.1.2.2 Challenges in data analysis
- 3.2 Penetration & Growth Prospect Mapping for Process, 2020
- 3.3 Gene Expression -Swot Analysis, By Factor (Political & Legal, Economic And Technological)
- 3.4 Industry Analysis - Porter's

### CHAPTER 4 GENE EXPRESSION MARKET CATEGORIZATION: PROCESS ESTIMATES & TREND ANALYSIS

- 4.1 Global Gene Expression Market: Process Movement Analysis, 2020 & 2028
- 4.2 Sample Collection

4.2.1 Global sample collection market, 2017 - 2028 (USD Million)

#### 4.3 Purification

4.3.1 Global purification market, 2017 - 2028 (USD Million)

#### 4.4 cDNA Synthesis & Conversion

4.4.1 Global cDNA synthesis & conversion market, 2017 - 2028 (USD Million)

#### 4.5 PCR Analysis

4.5.1 Global PCR analysis market, 2017 - 2028 (USD Million)

#### 4.6 Data Analysis & Interpretation

4.6.1 Global gene expression data analysis & interpretation market, 2017 - 2028 (USD Million)

### **CHAPTER 5 GENE EXPRESSION MARKET CATEGORIZATION: PRODUCT ESTIMATES & TREND ANALYSIS**

5.1 Global Gene Expression Market: Product Movement Analysis, 2020 & 2028

#### 5.2 Kits & Reagents

5.2.1 Global gene expression kits & reagent market, 2017 - 2028 (USD Million)

#### 5.3 DNA Chip/Microarray

5.3.1 Global DNA chip/microarray market, 2017 - 2028 (USD Million)

#### 5.4 Others

5.4.1 Global other products market, 2017 - 2028 (USD Million)

### **CHAPTER 6 GENE EXPRESSION MARKET CATEGORIZATION: CAPACITY ESTIMATES & TREND ANALYSIS**

6.1 Global Gene Expression Market: Capacity Movement Analysis, 2020 & 2028

#### 6.2 Low- to Mid-Plex

6.2.1 Global low- to mid- plex capacity market, 2017 - 2028 (USD Million)

#### 6.3 High-Plex

6.3.1 Global high-plex capacity market, 2017 - 2028 (USD Million)

### **CHAPTER 7 GENE EXPRESSION MARKET CATEGORIZATION: TECHNIQUE ESTIMATES & TREND ANALYSIS**

7.1 Global Gene Expression Market: Technique Movement Analysis, 2020 & 2028

#### 7.2 RNA Expression

7.2.1 Global RNA expression market, 2017 - 2028 (USD Million)

##### 7.2.2 Northern blotting

7.2.2.1 Global northern blotting market, 2017 - 2028 (USD Million)

### 7.2.3 DNA microarrays

7.2.3.1 Global DNA microarrays market, 2017 - 2028 (USD Million)

### 7.2.4 PCR

7.2.4.1 Global PCR market, 2017 - 2028 (USD Million)

### 7.2.5 RNA-Seq

7.2.5.1 Global RNA-seq market, 2017 - 2028 (USD Million)

## 7.3 Promoter Analysis

7.3.1 Global promoter analysis market, 2017 - 2028 (USD Million)

### 7.3.2 In vitro transcription/nuclear run-on assays

7.3.2.1 Global in vitro transcription/nuclear run-on assays market, 2017 - 2028 (USD Million)

### 7.3.3 Gel shift assays

7.3.3.1 Global gel shifts assays market, 2017 - 2028 (USD Million)

### 7.3.4 Chromatin immunoprecipitation (ChIP) assays

7.3.4.1 Global chromatin immunoprecipitation (ChIP) assays market, 2017 - 2028 (USD Million)

## 7.4 Protein Expression & Post-translational Modification Analysis

7.4.1 Global protein expression & post-translational modification analysis market, 2017 - 2028 (USD Million)

### 7.4.2 Western blotting

7.4.2.1 Global western blotting market, 2017 - 2028 (USD Million)

### 7.4.3 2-D Gel Electrophoresis

7.4.3.1 Global 2-D gel electrophoresis market, 2017 - 2028 (USD Million)

### 7.4.4 Immunoassays

7.4.4.1 Global immunoassays market, 2017 - 2028 (USD Million)

### 7.4.5 Mass spectrometry

7.4.5.1 Global mass spectroscopy market, 2017 - 2028 (USD Million)

## **CHAPTER 8 GENE EXPRESSION MARKET CATEGORIZATION: APPLICATION ESTIMATES & TREND ANALYSIS**

### 8.1 Global Gene Expression Market: Application Movement Analysis, 2020 & 2028

#### 8.2 Drug Discovery & Development (DD&D)

8.2.1 Global drug discovery & development market, 2017 - 2028 (USD Million)

#### 8.3 Clinical Diagnostics

8.3.1 Global clinical diagnostics market, 2017 - 2028 (USD Million)

#### 8.3.2 Clinical diagnostics using RNA expression

8.3.2.1 Global clinical diagnostics market using RNA expression, 2017 - 2028 (USD Million)

### 8.3.3 Clinical diagnostics using other techniques

8.3.3.1 Global clinical diagnostics market using other techniques, 2017 - 2028 (USD Million)

### 8.4 Biotechnology & Microbiology

8.4.1 Global biotechnology & microbiology market, 2017 - 2028 (USD Million)

### 8.5 Others (Forensic, Environmental, Agriculture, Bioenergy)

8.5.1 Global other applications market, 2017 - 2028 (USD Million)

## **CHAPTER 9 GENE EXPRESSION MARKET CATEGORIZATION: REGIONAL ESTIMATES & TREND ANALYSIS, BY PROCESS, PRODUCT, CAPACITY, TECHNIQUE & APPLICATION**

### 9.1 Gene Expression Market Share by Region, 2020 & 2028

#### 9.2 North America

9.2.1 North America gene expression market, 2017 - 2028 (USD Million)

##### 9.2.2 The U.S.

9.2.2.1 The U.S gene expression market, by process, 2017 - 2028 (USD Million)

9.2.2.2 The U.S gene expression market, by product, 2017 - 2028 (USD Million)

9.2.2.3 The U.S gene expression market, by capacity, 2017 - 2028 (USD Million)

9.2.2.4 The U.S gene expression market, by technique, 2017 - 2028 (USD Million)

9.2.2.5 The U.S gene expression market, by application, 2017 - 2028 (USD Million)

##### 9.2.3 Canada

9.2.3.1 Canada gene expression market, by process, 2017 - 2028 (USD Million)

9.2.3.2 Canada gene expression market, by product, 2017 - 2028 (USD Million)

9.2.3.3 Canada gene expression market, by capacity, 2017 - 2028 (USD Million)

9.2.3.4 Canada gene expression market, by technique, 2017 - 2028 (USD Million)

9.2.3.5 Canada gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.3 Europe

9.3.1 Europe gene expression market, 2017 - 2028 (USD Million)

##### 9.3.2 Germany

9.3.2.1 Germany gene expression market, by process, 2017 - 2028 (USD Million)

9.3.2.2 Germany gene expression market, by product, 2017 - 2028 (USD Million)

9.3.2.3 Germany gene expression market, by capacity, 2017 - 2028 (USD Million)

9.3.2.4 Germany gene expression market, by technique, 2017 - 2028 (USD Million)

9.3.2.5 Germany gene expression market, by application, 2017 - 2028 (USD Million)

##### 9.3.3 France

9.3.3.1 France gene expression market, by process, 2017 - 2028 (USD Million)

9.3.3.2 France gene expression market, by product, 2017 - 2028 (USD Million)

9.3.3.3 France gene expression market, by capacity, 2017 - 2028 (USD Million)



9.3.3.4 France gene expression market, by technique, 2017 - 2028 (USD Million)

9.3.3.5 France gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.3.4 The U.K.

9.3.4.1 The U.K. gene expression market, by process, 2017 - 2028 (USD Million)

9.3.4.2 The U.K. gene expression market, by product, 2017 - 2028 (USD Million)

9.3.4.3 The U.K. gene expression market, by capacity, 2017 - 2028 (USD Million)

9.3.4.4 The U.K. gene expression market, by technique, 2017 - 2028 (USD Million)

9.3.4.5 The U.K. gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.3.5 Italy

9.3.5.1 Italy gene expression market, by process, 2017 - 2028 (USD Million)

9.3.5.2 Italy gene expression market, by product, 2017 - 2028 (USD Million)

9.3.5.3 Italy gene expression market, by capacity, 2017 - 2028 (USD Million)

9.3.5.4 Italy gene expression market, by technique, 2017 - 2028 (USD Million)

9.3.5.5 Italy gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.3.6 Spain

9.3.6.1 Spain gene expression market, by process, 2017 - 2028 (USD Million)

9.3.6.2 Spain gene expression market, by product, 2017 - 2028 (USD Million)

9.3.6.3 Spain gene expression market, by capacity, 2017 - 2028 (USD Million)

9.3.6.4 Spain gene expression market, by technique, 2017 - 2028 (USD Million)

9.3.6.5 Spain gene expression market, by application, 2017 - 2028 (USD Million)

### 9.4 Asia Pacific

9.4.1 Asia Pacific gene expression market, 2017 - 2028 (USD Million)

#### 9.4.2 Japan

9.4.2.1 Japan gene expression market, by process, 2017 - 2028 (USD Million)

9.4.2.2 Japan gene expression market, by product, 2017 - 2028 (USD Million)

9.4.2.3 Japan gene expression market, by capacity, 2017 - 2028 (USD Million)

9.4.2.4 Japan gene expression market, by technique, 2017 - 2028 (USD Million)

9.4.2.5 Japan gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.4.3 China

9.4.3.1 China gene expression market, by process, 2017 - 2028 (USD Million)

9.4.3.2 China gene expression market, by product, 2017 - 2028 (USD Million)

9.4.3.3 China gene expression market, by capacity, 2017 - 2028 (USD Million)

9.4.3.4 China gene expression market, by technique, 2017 - 2028 (USD Million)

9.4.3.5 China gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.4.4 India

9.4.4.1 India gene expression market, by process, 2017 - 2028 (USD Million)

9.4.4.2 India gene expression market, by product, 2017 - 2028 (USD Million)

9.4.4.3 India gene expression market, by capacity, 2017 - 2028 (USD Million)

9.4.4.4 India gene expression market, by technique, 2017 - 2028 (USD Million)



9.4.4.5 India gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.4.5 Australia

9.4.5.1 Australia gene expression market, by process, 2017 - 2028 (USD Million)

9.4.5.2 Australia gene expression market, by product, 2017 - 2028 (USD Million)

9.4.5.3 Australia gene expression market, by capacity, 2017 - 2028 (USD Million)

9.4.5.4 Australia gene expression market, by technique, 2017 - 2028 (USD Million)

9.4.5.5 Australia gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.4.6 South Korea

9.4.6.1 South Korea gene expression market, by process, 2017 - 2028 (USD Million)

9.4.6.2 South Korea gene expression market, by product, 2017 - 2028 (USD Million)

9.4.6.3 South Korea gene expression market, by capacity, 2017 - 2028 (USD Million)

9.4.6.4 South Korea gene expression market, by technique, 2017 - 2028 (USD Million)

9.4.6.5 South Korea gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.5 Latin America

9.5.1 Latin America gene expression market, 2017 - 2028 (USD Million)

##### 9.5.2 Brazil

9.5.2.1 Brazil gene expression market, by process, 2017 - 2028 (USD Million)

9.5.2.2 Brazil gene expression market, by product, 2017 - 2028 (USD Million)

9.5.2.3 Brazil gene expression market, by capacity, 2017 - 2028 (USD Million)

9.5.2.4 Brazil gene expression market, by technique, 2017 - 2028 (USD Million)

9.5.2.5 Brazil gene expression market, by application, 2017 - 2028 (USD Million)

##### 9.5.3 Mexico

9.5.3.1 Mexico gene expression market, by process, 2017 - 2028 (USD Million)

9.5.3.2 Mexico gene expression market, by product, 2017 - 2028 (USD Million)

9.5.3.3 Mexico gene expression market, by capacity, 2017 - 2028 (USD Million)

9.5.3.4 Mexico gene expression market, by technique, 2017 - 2028 (USD Million)

9.5.3.5 Mexico gene expression market, by application, 2017 - 2028 (USD Million)

#### 9.6 Middle East & Africa (MEA)

9.6.1 Middle East & Africa gene expression market, 2017 - 2028 (USD Million)

##### 9.6.2 South Africa

9.6.2.1 South Africa gene expression market, by process, 2017 - 2028 (USD Million)

9.6.2.2 South Africa gene expression market, by product, 2017 - 2028 (USD Million)

9.6.2.3 South Africa gene expression market, by capacity, 2017 - 2028 (USD Million)

9.6.2.4 South Africa gene expression market, by technique, 2017 - 2028 (USD Million)

9.6.2.5 South Africa gene expression market, by application, 2017 - 2028 (USD Million)

### 9.6.3 Saudi Arabia

9.6.3.1 Saudi Arabia gene expression market, by process, 2017 - 2028 (USD Million)

9.6.3.2 Saudi Arabia gene expression market, by product, 2017 - 2028 (USD Million)

9.6.3.3 Saudi Arabia gene expression market, by capacity, 2017 - 2028 (USD Million)

9.6.3.4 Saudi Arabia gene expression market, by technique, 2017 - 2028 (USD Million)

9.6.3.5 Saudi Arabia gene expression market, by application, 2017 - 2028 (USD Million)

## CHAPTER 10 COMPETITIVE LANDSCAPE

### 10.1 Market Players List

### 10.2 Strategy Framework

### 10.3 Market Participation Categorization

### 10.4 Company Profiles

#### 10.4.1 QIAGEN

10.4.1.1 Company overview

10.4.1.2 Financial performance

10.4.1.3 Product benchmarking

10.4.1.4 Strategic initiatives

#### 10.4.2 Quest Diagnostics Incorporated

10.4.2.1 Company overview

10.4.2.2 Financial performance

10.4.2.3 Product benchmarking

10.4.2.4 Strategic initiatives

#### 10.4.3 F. Hoffmann-La Roche Ltd

10.4.3.1 Company overview

10.4.3.2 Financial performance

10.4.3.3 Product benchmarking

10.4.3.1 Strategic initiatives

#### 10.4.4 Illumina, Inc.

10.4.4.1 Company overview

10.4.4.2 Financial performance

10.4.4.3 Product benchmarking

10.4.4.4 Strategic initiatives

#### 10.4.5 Novogene Corporation

10.4.5.1 Company overview

10.4.5.2 Financial performance

10.4.5.3 Product benchmarking

- 10.4.5.4 Strategic initiatives
- 10.4.6 PerkinElmer, Inc.
  - 10.4.6.1 Company overview
  - 10.4.6.2 Financial performance
  - 10.4.6.3 Product benchmarking
  - 10.4.6.4 Strategic initiatives
- 10.4.7 Bio-Rad Laboratories, Inc.
  - 10.4.7.1 Company overview
  - 10.4.7.2 Financial performance
  - 10.4.7.3 Product benchmarking
  - 10.4.7.4 Strategic initiatives
- 10.4.8 Thermo Fisher Scientific, Inc.
  - 10.4.8.1 Company overview
    - 10.4.8.1.1 Life Technologies Corporation
    - 10.4.8.1.2 Affymetrix, Inc.
  - 10.4.8.2 Financial performance
    - 10.4.8.2.1 Financial performance
  - 10.4.8.3 Product benchmarking
  - 10.4.8.4 Strategic initiatives
- 10.4.9 Agilent Technologies
  - 10.4.9.1 Company overview
  - 10.4.9.2 Financial performance
  - 10.4.9.3 Product benchmarking
  - 10.4.9.4 Strategic initiatives
- 10.4.10 GE Healthcare Dharmacon, Inc.
  - 10.4.10.1 Company overview
  - 10.4.10.2 Financial performance
  - 10.4.10.3 Product benchmarking
- 10.4.11 Promega Corporation
  - 10.4.11.1 Company overview
  - 10.4.11.2 Financial performance
  - 10.4.11.3 Product benchmarking
  - 10.4.11.4 Strategic initiatives
- 10.4.12 Luminex Corporation
  - 10.4.12.1 Company overview
  - 10.4.12.2 Financial performance
  - 10.4.12.3 Product benchmarking
- 10.4.13 Oxford Gene Technology
  - 10.4.13.1 Company overview

- 10.4.13.2 Financial performance
- 10.4.13.3 Product benchmarking
- 10.4.13.4 Strategic initiatives
- 10.4.14 TAKARA BIO, INC.
  - 10.4.14.1 Company overview
    - 10.4.14.1.1 WaferGen Bio-systems, Inc.
  - 10.4.14.2 Financial performance
    - 10.4.14.2.1 Financial performance
  - 10.4.14.3 Product benchmarking
  - 10.4.14.4 Strategic initiatives
- 10.4.15 Danaher
  - 10.4.15.1 Company overview
    - 10.4.15.1.1 Cepheid
  - 10.4.15.2 Financial performance
    - 10.4.15.2.1 Financial performance
  - 10.4.15.3 Product benchmarking
  - 10.4.15.4 Strategic initiatives
- 10.4.16 ELITech Group
  - 10.4.16.1 Company overview
  - 10.4.16.2 Financial performance
  - 10.4.16.3 Product benchmarking
- 10.4.17 Myriad Genetics
  - 10.4.17.1 Company overview
  - 10.4.17.2 Financial performance
  - 10.4.17.3 Product benchmarking
  - 10.4.17.4 Strategic initiatives
- 10.4.18 AutoGenomics
  - 10.4.18.1 Company overview
  - 10.4.18.2 Financial performance
  - 10.4.18.3 Product benchmarking
  - 10.4.18.4 Strategic initiatives
- 10.4.19 Biocartis
  - 10.4.19.1 Company overview
  - 10.4.19.2 Financial performance
  - 10.4.19.3 Product benchmarking
- 10.4.20 IntegraGen.
  - 10.4.20.1 Company overview
  - 10.4.20.2 Financial performance
  - 10.4.20.3 Product Benchmarking

10.4.21 Interpace Diagnostics, LLC.

10.4.21.1 Company overview

10.4.21.2 Financial performance

10.4.21.3 Product benchmarking

10.4.22 Fluidigm Corporation

10.4.22.1 Company overview

10.4.22.2 Financial performance

10.4.22.3 Product benchmarking

10.4.22.4 Strategic initiatives

## List Of Tables

### LIST OF TABLES

TABLE 1 Global cancer incidence, 2018

TABLE 2 Global deaths due to cancer, 2018

TABLE 3 Comparison of gene expression platforms

TABLE 4 Immunoassays for protein expression analysis with detection labels

TABLE 5 Standard materials for immune assays

TABLE 6 North America gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 7 North America gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 8 North America gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 9 North America gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 10 North America RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 11 North America promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 12 North America protein expression & post translational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 13 North America gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 14 North America clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 15 The U.S. gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 16 The U.S. gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 17 The U.S. gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 18 The U.S. gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 19 The U.S. RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 20 The U.S. promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)



TABLE 21 The U.S. protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 22 The U.S. gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 23 The U.S. clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 24 Canada gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 25 Canada gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 26 Canada gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 27 Canada gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 28 Canada RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 29 Canada promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 30 Canada protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 31 Canada gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 32 Canada clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 33 Number of studies and assays in Expression Atlas

TABLE 34 Europe gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 35 Europe gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 36 Europe gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 37 Europe gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 38 Europe RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 39 Europe promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 40 Europe protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 41 Europe gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 42 Europe clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 43 Germany gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 44 Germany gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 45 Germany gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 46 Germany gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 47 Germany RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 48 Germany promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 49 Germany protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 50 Germany gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 51 Germany clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 52 France gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 53 France gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 54 France gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 55 France gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 56 France RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 57 France promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 58 France protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 59 France gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 60 France clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

- 2028 (USD Million)

TABLE 61 The U.K. gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 62 The U.K. gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 63 The U.K. gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 64 The U.K. gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 65 The U.K. RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 66 The U.K. promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 67 The U.K. protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 68 The U.K. gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 69 The U.K. clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 70 Italy gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 71 Italy gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 72 Italy gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 73 Italy gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 74 Italy RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 75 Italy promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 76 Italy protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 77 Italy gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 78 Italy clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 79 Spain gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 80 Spain gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 81 Spain gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 82 Spain gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 83 Spain RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 84 Spain promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 85 Spain protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 86 Spain gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 87 Spain clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 88 Asia Pacific gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 89 Asia Pacific gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 90 Asia Pacific gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 91 Asia Pacific gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 92 Asia Pacific RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 93 Asia Pacific promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 94 Asia Pacific protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 95 Asia Pacific gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 96 Asia Pacific clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 97 Japan gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 98 Japan gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 99 Japan gene expression market estimates & forecasts, by capacity, 2017 -

2028 (USD Million)

TABLE 100 Japan gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 101 Japan RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 102 Japan promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 103 Japan protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 104 Japan gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 105 Japan clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 106 China gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 107 China gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 108 China gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 109 China gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 110 China RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 111 China promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 112 China protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 113 China gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 114 China clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 115 India gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 116 India gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 117 India gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 118 India gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)



TABLE 119 India RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 120 India promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 121 India protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 122 India gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 123 India clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 124 Australia gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 125 Australia gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 126 Australia gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 127 Australia gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 128 Australia RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 129 Australia promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 130 Australia protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 131 Australia gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 132 Australia clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 133 South Korea gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 134 South Korea gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 135 South Korea gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 136 South Korea gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 137 South Korea RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 138 South Korea promoter analysis market estimates & forecasts, by technique,



2017 - 2028 (USD Million)

TABLE 139 South Korea protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 140 South Korea gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 141 South Korea clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 142 Latin America gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 143 Latin America gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 144 Latin America gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 145 Latin America gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 146 Latin America RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 147 Latin America promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 148 Latin America protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 149 Latin America gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 150 Latin America clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 151 Brazil gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 152 Brazil gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 153 Brazil gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 154 Brazil gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 155 Brazil RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 156 Brazil promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 157 Brazil protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 158 Brazil gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 159 Brazil clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 160 Mexico gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 161 Mexico gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 162 Mexico gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 163 Mexico gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 164 Mexico RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 165 Mexico promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 166 Mexico protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 167 Mexico gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 168 Mexico clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 169 Middle East & Africa gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 170 Middle East & Africa gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 171 Middle East & Africa gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 172 Middle East & Africa gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 173 Middle East & Africa RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 174 Middle East & Africa promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 175 Middle East & Africa protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 176 Middle East & Africa gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 177 Middle East & Africa clinical diagnostics market estimates & forecasts, by

technique, 2017 - 2028 (USD Million)

TABLE 178 South Africa gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 179 South Africa gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 180 South Africa gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 181 South Africa gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 182 South Africa RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 183 South Africa promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 184 South Africa protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 185 South Africa gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 186 South Africa clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 187 Saudi Arabia gene expression market estimates & forecasts, by process, 2017 - 2028 (USD Million)

TABLE 188 Saudi Arabia gene expression market estimates & forecasts, by product, 2017 - 2028 (USD Million)

TABLE 189 Saudi Arabia gene expression market estimates & forecasts, by capacity, 2017 - 2028 (USD Million)

TABLE 190 Saudi Arabia gene expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 191 Saudi Arabia RNA expression market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 192 Saudi Arabia promoter analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 193 Saudi Arabia protein expression & posttranslational modification analysis market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

TABLE 194 Saudi Arabia gene expression market estimates & forecasts, by application, 2017 - 2028 (USD Million)

TABLE 195 Saudi Arabia clinical diagnostics market estimates & forecasts, by technique, 2017 - 2028 (USD Million)

## List Of Figures

### LIST OF FIGURES

- FIG. 1 Market research process
- FIG. 2 Information Procurement
- FIG. 3 Primary research pattern
- FIG. 4 Market research approaches
- FIG. 5 Value chain based sizing & forecasting
- FIG. 6 QFD modelling for market share assessment
- FIG. 7 Market summary
- FIG. 8 Market trends & outlook
- FIG. 9 Market segmentation & scope
- FIG. 10 Market driver relevance analysis (Current & future impact)
- FIG. 11 Decline in cost of per genome sequencing
- FIG. 12 Decline in cost of per Megabase DNA sequencing
- FIG. 13 Estimates of Research, Condition, and Disease Categories (RCDC) funding for cancer genomics
- FIG. 14 Market restraint relevance analysis (Current & future impact)
- FIG. 15 Penetration & growth prospect mapping for process, 2020
- FIG. 16 SWOT Analysis, By Factor (political & legal, economic and technological)
- FIG. 17 Porter's Five Forces Analysis
- FIG. 18 Global gene expression market: Process outlook key takeaways
- FIG. 19 Gene expression market: Process movement analysis
- FIG. 20 Global sample collection market, 2017 - 2028 (USD Million)
- FIG. 21 Global purification market, 2017 - 2028 (USD Million)
- FIG. 22 Global cDNA synthesis & conversion market, 2017 - 2028 (USD Million)
- FIG. 23 Global PCR analysis market, 2017 - 2028 (USD Million)
- FIG. 24 Global gene expression data analysis & interpretation market, 2017 - 2028 (USD Million)
- FIG. 25 Global gene expression market: Product outlook key takeaways
- FIG. 26 Gene expression market: Product movement analysis
- FIG. 27 Global gene expression kits & reagent market, 2017 - 2028 (USD Million)
- FIG. 28 Global DNA chip/microarray market, 2017 - 2028 (USD Million)
- FIG. 29 Global other products market, 2017 - 2028 (USD Million)
- FIG. 30 Global gene expression market: Capacity outlook key takeaways
- FIG. 31 Gene Expression market: Capacity movement analysis
- FIG. 32 Global low- to mid- plex capacity market, 2017 - 2028 (USD Million)
- FIG. 33 Global high-plex capacity market, 2017 - 2028 (USD Million)

- FIG. 34 Global gene expression market: Technique outlook key takeaways
- FIG. 35 Gene expression market: Technique movement analysis
- FIG. 36 Global RNA expression market, 2017 - 2028 (USD Million)
- FIG. 37 Global northern blotting market, 2017 - 2028 (USD Million)
- FIG. 38 Global DNA microarrays market, 2017 - 2028 (USD Million)
- FIG. 39 Global real-time PCR market, 2017 - 2028 (USD Million)
- FIG. 40 Global RNA-seq market, 2017 - 2028 (USD Million)
- FIG. 41 Global promoter analysis market, 2017 - 2028 (USD Million)
- FIG. 42 Global in vitro transcription/nuclear run-on assays market, 2017 - 2028 (USD Million)
- FIG. 43 Global gel shift assays market, 2017 - 2028 (USD Million)
- FIG. 44 Global chromatin immunoprecipitation (ChIP) assays market, 2017 - 2028 (USD Million)
- FIG. 45 Global protein expression & post-translational modification analysis market, 2017 - 2028 (USD Million)
- FIG. 46 Global western blotting market, 2017 - 2028 (USD Million)
- FIG. 47 Global 2-D gel electrophoresis market, 2017 - 2028 (USD Million)
- FIG. 48 Global immunoassays market, 2017 - 2028 (USD Million)
- FIG. 49 Global mass spectroscopy market, 2017 - 2028 (USD Million)
- FIG. 50 Global gene expression market: Application outlook key takeaways
- FIG. 51 Gene expression market: Application movement analysis
- FIG. 52 Global drug discovery & development market, 2017 - 2028 (USD Million)
- FIG. 53 Global clinical diagnostics market, 2017 - 2028 (USD Million)
- FIG. 54 Global clinical diagnostics market using RNA expression market, 2017 - 2028 (USD Million)
- FIG. 55 Global clinical diagnostics market using other techniques market, 2017 - 2028 (USD Million)
- FIG. 56 Global biotechnology & microbiology market, 2017 - 2028 (USD Million)
- FIG. 57 Global other applications market, 2017 - 2028 (USD Million)
- FIG. 58 Regional marketplace: Key takeaway
- FIG. 59 Gene expression regional outlook, 2020 & 2028
- FIG. 60 North America gene expression market, 2017 - 2028 (USD Million)
- FIG. 61 The U.S gene expression market, 2017 - 2028 (USD Million)
- FIG. 62 Canada gene expression market, 2017 - 2028 (USD Million)
- FIG. 63 Europe gene expression market, 2017 - 2028 (USD Million)
- FIG. 64 Germany gene expression market, 2017 - 2028 (USD Million)
- FIG. 65 France gene expression market, 2017 - 2028 (USD Million)
- FIG. 66 The U.K. gene expression market, 2017 - 2028 (USD Million)
- FIG. 67 Italy gene expression market, 2017 - 2028 (USD Million)



- FIG. 68 Spain gene expression market, 2017 - 2028 (USD Million)
- FIG. 69 Asia Pacific gene expression market, 2017 - 2028 (USD Million)
- FIG. 70 Japan gene expression market, 2017 - 2028 (USD Million)
- FIG. 71 China gene expression market, 2017 - 2028 (USD Million)
- FIG. 72 India gene expression market, 2017 - 2028 (USD Million)
- FIG. 73 Australia gene expression market, 2017 - 2028 (USD Million)
- FIG. 74 South Korea gene expression market, 2017 - 2028 (USD Million)
- FIG. 75 Latin America gene expression market, 2017 - 2028 (USD Million)
- FIG. 76 Brazil gene expression market, 2017 - 2028 (USD Million)
- FIG. 77 Mexico gene expression market, 2017 - 2028 (USD Million)
- FIG. 78 Middle East & Africa gene expression market, 2017 - 2028 (USD Million)
- FIG. 79 South Africa gene expression market, 2017 - 2028 (USD Million)
- FIG. 80 Saudi Arabia gene expression market, 2017 - 2028 (USD Million)
- FIG. 81 Market players list
- FIG. 82 Strategy framework
- FIG. 83 Participant categorization?



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