

Gene Expression Analysis Market by Product (Reagents, Enzymes, kits, DNA Chips, PCR, NGS, DNA Microarray), Service (RNA Sequencing, Bioinformatics), Application (Drug discovery & development, clinical diagnostics), End User - Global Forecast to 2029

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Report description:

The gene expression analysis market is projected to reach USD 6.2 billion by 2029 from an estimated USD 4.2 billion in 2024, at a CAGR of 8.1% during the forecast period.

The growth of this market can be attributed to the growing investments in genomics research and the availability of government funding for genetic studies further contributes to the market's expansion. As the field continues to evolve, with a deeper understanding of gene regulation and molecular mechanisms, the gene expression analysis market is poised for continued growth and innovation.

"The PCR instrument segment accounted for the largest share by instruments in 2023."

In 2023, the PCR segment accounted for the largest share of instruments sub-segment of product & service in the global gene expression analysis market. PCR instruments are widely adopted across various industries, including pharmaceuticals, biotechnology, academic research, clinical diagnostics, and forensic sciences. This broad application range contributes to the substantial market share of PCR instruments.

"The Asia Pacific region is grows at the highest CAGR in the gene expression analysis market during the forecast period of 2024-2029."

The Asia Pacific region is expected to grow at the highest growth rate during the forecast period. This region is s anticipated to experience rapid growth, fueled by expanding proteomics and genomics research, augmented research funding, amplified investments from pharmaceutical and biotechnology enterprises, and rising awareness surrounding personalized therapeutics. India and China are expected to display the highest growth in the Asia Pacific region, particularly due to the rise in affordability

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and awareness related to the benefits of diagnosis.

The primary interviews conducted for this report can be categorized as follows:

- By Respondent: Supply Side- 70% and Demand Side 30%
- By Designation: Managers - 45%, CXOs and Directors - 30%, and Executives- 25%
- By Region: North America -45%, Europe -20%, Asia-Pacific -20%, Latin America -10%, Middle East & Africa- 5%

List of Companies Profiled in the Report:

- Thermo Fisher Scientific Inc (US)
- Bio-Rad Laboratories Inc. (US)
- Illumina Inc (US)
- QIAGEN (Netherlands)
- F. Hoffmann-La Roche (Switzerland)
- Revvity (US)
- PacBio (US)
- Agilent Technologies Inc (US)
- Oxford Gene Technology IP Limited (UK)
- BGI (China)
- Eurofins Scientific (Luxembourg)
- Standard BioTools (US)
- Oxford Nanopore Technologies plc (UK)
- GenScript (US)
- Takara Bio Inc (Japan)
- 10x Genomics (US)
- Zymo Research Corporation (US)
- Twist Bioscience (US)
- Promega Corporation (US)
- LGC Limited (UK)
- CD Genomics (US)
- NanoString Technologies Inc. (US)
- BioSpyder, Inc (US)
- Integrated DNA Technologies, Inc (US)
- New England Biolabs (US).

Research Coverage:

This research report categorizes the gene expression analysis market by product & service (instruments, reagents & consumables and services (gene expression analysis service and bioinformatics service)), application (clinical diagnostics, drug discovery & development, and other applications (developmental biology, pharmacogenomics, environmental response, forensic research, agricultural research)) , end user (pharmaceutical & biotechnology companies, academic & research institutes, and other end users (clinical laboratories, CROs, forensic laboratories, agricultural & environmental organizations)), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, challenges, opportunities, and trends influencing the growth of the gene expression analysis market. The report conducts in-depth analysis of major industry players, offering insights into their business profiles, product/service offerings, and strategic initiatives including collaborations, partnerships, expansions, agreements, acquisitions, and recent developments within the gene expression analysis market. Furthermore, it encompasses competitive analysis of leading players as well as emerging startups within the gene expression analysis market ecosystem.

Key Benefits of Buying the Report:

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The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall gene expression analysis market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Analysis of key drivers (Advancement in gene editing technologies, increasing funding initiatives for genomic research, growing preference for therapeutic application, declining sequencing cost), restraints (high cost of instruments & consumables, concerns associated with data privacy and security), opportunities (application expansion across non-medical fields, machine learning and ai, growing focus on single-cell analysis), and challenges (prolonged timelines for approval, data interpretation challenges) influencing the growth of the market.
- Product Development/Innovation: Detailed insights on newly launched products of the gene expression analysis market
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the gene expression analysis market
- Competitive Assessment: Thermo Fisher Scientific Inc (US), Bio-Rad Laboratories Inc. (US), Illumina Inc (US), QIAGEN (Netherlands), F. Hoffmann-La Roche (Switzerland), Revvity (US), PacBio (US), Agilent Technologies Inc (US), Oxford Gene Technology IP Limited (UK), BGI (China), Eurofins Scientific (Luxembourg), Standard BioTools (US), Oxford Nanopore Technologies plc (UK), GenScript (US), Takara Bio Inc (Japan), 10x Genomics (US), Zymo Research Corporation (US), Twist Bioscience (US), Promega Corporation (US), LGC Limited (UK), CD Genomics (US), NanoString Technologies Inc. (US), BioSpyder, Inc (US), Integrated DNA Technologies, Inc (US) and New England Biolabs (US), among others in the market.

Table of Contents:

1	INTRODUCTION	31
1.1	STUDY OBJECTIVES	31
1.2	MARKET DEFINITION	31
1.2.1	INCLUSIONS & EXCLUSIONS	31
1.3	MARKET SCOPE	32
1.3.1	MARKETS COVERED	32
1.3.2	REGIONS COVERED	33
1.3.3	YEARS CONSIDERED	33
1.3.4	CURRENCY CONSIDERED	34
1.4	RESEARCH LIMITATIONS	34
1.5	STAKEHOLDERS	34
1.6	SUMMARY OF CHANGES	35
1.7	RECESSION IMPACT	35
2	RESEARCH METHODOLOGY	36
2.1	RESEARCH DATA	36
FIGURE 1	RESEARCH DESIGN	36
2.1.1	SECONDARY DATA	37
2.1.2	PRIMARY DATA	38
FIGURE 2	GENE EXPRESSION ANALYSIS MARKET: BREAKDOWN OF PRIMARIES	38
2.2	MARKET SIZE ESTIMATION	39
FIGURE 3	MARKET SIZE ESTIMATION (SUPPLY-SIDE ANALYSIS), 2023	39
FIGURE 4	MARKET SIZE ESTIMATION: APPROACH 1 (REVENUE SHARE ANALYSIS), 2023	40
FIGURE 5	ILLUSTRATIVE EXAMPLE OF THERMO FISHER SCIENTIFIC INC.: REVENUE SHARE ANALYSIS, 2023	40
2.2.1	INSIGHTS FROM PRIMARIES	42

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FIGURE 6 MARKET VALIDATION FROM PRIMARY EXPERTS 42

2.2.2 SEGMENT ASSESSMENT (BY PRODUCT & SERVICE, APPLICATION, AND END USER) 42

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH 42

2.3 GROWTH RATE ASSUMPTIONS 43

FIGURE 8 GENE EXPRESSION ANALYSIS MARKET: CAGR PROJECTIONS (2024-2029) 44

FIGURE 9 GENE EXPRESSION ANALYSIS MARKET: GROWTH ANALYSIS OF DRIVERS, RESTRAINTS, CHALLENGES, AND OPPORTUNITIES 44

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION 45

FIGURE 10 DATA TRIANGULATION METHODOLOGY 45

2.5 STUDY ASSUMPTIONS 46

2.6 RISK ANALYSIS 46

2.7 RECESSION IMPACT ANALYSIS 46

TABLE 1 GLOBAL INFLATION RATE PROJECTIONS, 2024-2028 (% GROWTH) 47

TABLE 2 US HEALTH EXPENDITURE, 2019-2022 (USD MILLION) 47

TABLE 3 US HEALTH EXPENDITURE, 2023-2027 (USD MILLION) 47

3 EXECUTIVE SUMMARY 48

FIGURE 11 GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2024 VS. 2029 (USD MILLION) 48

FIGURE 12 GENE EXPRESSION SERVICES MARKET, BY TYPE, 2024 VS. 2029 (USD MILLION) 49

FIGURE 13 GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2024 VS. 2029 (USD MILLION) 49

FIGURE 14 GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2024 VS. 2029 (USD MILLION) 50

FIGURE 15 GEOGRAPHIC SNAPSHOT OF GENE EXPRESSION ANALYSIS MARKET 51

4 PREMIUM INSIGHTS 52

4.1 GENE EXPRESSION ANALYSIS MARKET OVERVIEW 52

FIGURE 16 ADVANCEMENTS IN GENE EDITING TECHNOLOGIES TO DRIVE MARKET 52

4.2 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2023 53

FIGURE 17 PRODUCT & SERVICE SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2023 53

4.3 GENE EXPRESSION ANALYSIS MARKET SHARE, BY PRODUCT & SERVICE, 2024 VS. 2029 53

FIGURE 18 PRODUCT & SERVICE SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD 53

4.4 GENE EXPRESSION ANALYSIS MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES 54

FIGURE 19 ASIA PACIFIC COUNTRIES TO REGISTER HIGHER GROWTH RATES DURING FORECAST PERIOD 54

5 MARKET OVERVIEW 55

5.1 INTRODUCTION 55

5.2 MARKET DYNAMICS 55

FIGURE 20 GENE EXPRESSION ANALYSIS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES 55

5.2.1 DRIVERS 56

5.2.1.1 Advancements in gene editing technologies 56

5.2.1.2 Increasing funding initiatives for genomic research 57

5.2.1.3 Growing preference for therapeutic applications 57

5.2.1.4 Declining costs of sequencing technologies 58

FIGURE 21 COST OF HUMAN WHOLE-GENOME SEQUENCING, 2001-2022 59

5.2.2 RESTRAINTS 59

5.2.2.1 High cost of instruments & consumables 59

5.2.2.2 Concerns associated with data privacy and security 60

5.2.3 OPPORTUNITIES 61

5.2.3.1 High growth potential across non-clinical applications 61

5.2.3.2 Machine learning and AI 62

5.2.3.3 Growing focus on single-cell analysis 63

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5.2.4	CHALLENGES	64
5.2.4.1	Extensive timelines for product approval	64
5.2.4.2	Data interpretation challenges	64
5.3	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	65
FIGURE 22	REVENUE SHIFT TOWARDS GENE EXPRESSION ANALYSIS COMPANIES	65
5.4	PRICING ANALYSIS	66
5.4.1	AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY PRODUCT	66
TABLE 4	GENE EXPRESSION ANALYSIS PRODUCT PRICE	66
5.5	VALUE CHAIN ANALYSIS	67
FIGURE 23	GENE EXPRESSION ANALYSIS MARKET: VALUE CHAIN ANALYSIS	68
5.6	SUPPLY CHAIN ANALYSIS	69
FIGURE 24	GENE EXPRESSION ANALYSIS MARKET: SUPPLY CHAIN ANALYSIS	69
TABLE 5	GENE EXPRESSION ANALYSIS MARKET: SUPPLY CHAIN ANALYSIS	70
5.7	ECOSYSTEM ANALYSIS	71
FIGURE 25	GENE EXPRESSION ANALYSIS MARKET ECOSYSTEM	71
5.7.1	GENE EXPRESSION ANALYSIS MARKET: REAGENT & CONSUMABLE VENDORS	72
TABLE 6	GENE EXPRESSION ANALYSIS MARKET: REAGENT & CONSUMABLE VENDORS	72
5.7.2	GENE EXPRESSION ANALYSIS MARKET: INSTRUMENT VENDORS	72
TABLE 7	GENE EXPRESSION ANALYSIS MARKET: INSTRUMENT VENDORS	72
5.7.3	GENE EXPRESSION ANALYSIS MARKET: END USERS	73
TABLE 8	GENE EXPRESSION ANALYSIS MARKET: END USERS	73
5.7.4	GENE EXPRESSION ANALYSIS MARKET: REGULATORY BODIES	73
TABLE 9	GENE EXPRESSION ANALYSIS MARKET: REGULATORY BODIES	73
5.8	TECHNOLOGY ANALYSIS	74
5.9	PATENT ANALYSIS	75
5.9.1	PATENTS FILED, BY DOCUMENT TYPE, 2014-2024	75
TABLE 10	PATENTS FILED, 2014-2024	75
5.9.2	INNOVATION & PATENT APPLICATIONS	75
FIGURE 26	TOTAL NUMBER OF PATENTS GRANTED, 2014-2023	75
5.9.3	TOP APPLICANTS	76
FIGURE 27	TOP TEN PLAYERS WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2014-2024	76
FIGURE 28	REGIONAL ANALYSIS OF PATENTS GRANTED, 2014-2024	76
TABLE 11	TOP 12 PATENT OWNERS IN GENE EXPRESSION ANALYSIS MARKET, 2014-2024	77
TABLE 12	PATENTS IN GENE EXPRESSION ANALYSIS MARKET (2024)	77
5.10	TRADE DATA	79
5.10.1	INSTRUMENTS & APPARATUS FOR PHYSICAL OR CHEMICAL ANALYSIS	79
TABLE 13	IMPORT VOLUME FOR INSTRUMENTS & APPARATUS FOR PHYSICAL OR CHEMICAL ANALYSIS (HS CODE-902780), 2018-2022 (TONS)	80
TABLE 14	EXPORT VOLUME FOR INSTRUMENTS & APPARATUS FOR PHYSICAL OR CHEMICAL ANALYSIS (HS CODE-902780), 2018-2022 (TONS)	80
5.10.2	MICROTOMES: PARTS & ACCESSORIES OF INSTRUMENTS AND APPARATUS FOR PHYSICAL/CHEMICAL ANALYSIS	81
TABLE 15	IMPORT VOLUME FOR MICROTOMES: PARTS & ACCESSORIES OF INSTRUMENTS AND APPARATUS FOR PHYSICAL/CHEMICAL ANALYSIS (HS CODE-902790), 2018-2022 (TONS)	81
TABLE 16	EXPORT VOLUME FOR MICROTOMES: PARTS & ACCESSORIES OF INSTRUMENTS AND APPARATUS FOR PHYSICAL/CHEMICAL ANALYSIS (HS CODE-902790), 2018-2022 (TONS)	81
5.11	KEY CONFERENCES & EVENTS	82
5.11.1	GENE EXPRESSION ANALYSIS MARKET: CONFERENCES & EVENTS IN 2024-2025	82

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TABLE 17 GENE EXPRESSION ANALYSIS MARKET: CONFERENCES & EVENTS (2024-2025) 82

5.12 REGULATORY LANDSCAPE 83

5.12.1 CBER REGULATIONS ON GENE EXPRESSION ANALYSIS 83

5.12.2 LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 84

TABLE 18 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 84

TABLE 19 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 85

TABLE 20 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 86

TABLE 21 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 87

5.13 PORTER'S FIVE FORCES ANALYSIS 88

TABLE 22 GENE EXPRESSION ANALYSIS MARKET: PORTER'S FIVE FORCES ANALYSIS 88

5.13.1 THREAT OF NEW ENTRANTS 88

5.13.2 THREAT OF SUBSTITUTES 89

5.13.3 BARGAINING POWER OF BUYERS 89

5.13.4 BARGAINING POWER OF SUPPLIERS 89

5.13.5 INTENSITY OF COMPETITIVE RIVALRY 89

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA 90

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS 90

FIGURE 29 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR GENE EXPRESSION ANALYSIS PRODUCTS & SERVICES 90

TABLE 23 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP FOUR END USERS 90

5.14.2 BUYING CRITERIA FOR GENE EXPRESSION ANALYSIS PRODUCTS 91

FIGURE 30 KEY BUYING CRITERIA FOR END USERS 91

TABLE 24 KEY BUYING CRITERIA FOR TOP FOUR END USERS 91

?

6 GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE 93

6.1 INTRODUCTION 94

TABLE 25 GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 94

6.2 REAGENTS & CONSUMABLES 94

TABLE 26 GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 95

TABLE 27 GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY REGION, 2022-2029 (USD MILLION) 95

TABLE 28 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) 96

TABLE 29 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) 96

TABLE 30 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) 97

TABLE 31 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) 97

TABLE 32 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY REGION, 2022-2029 (USD MILLION) 97

TABLE 33 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) 98

6.2.1 ASSAYS & KITS 98

6.2.1.1 Growing demand for streamlined and user-friendly solutions to drive market 98

TABLE 34 GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY REGION, 2022-2029 (USD MILLION) 99

TABLE 35 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY COUNTRY, 2022-2029 (USD MILLION) 99

TABLE 36 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY COUNTRY, 2022-2029 (USD MILLION) 100

TABLE 37 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY COUNTRY, 2022-2029 (USD MILLION) 100

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TABLE 38 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY COUNTRY, 2022-2029 (USD MILLION) □101

TABLE 39 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY REGION, 2022-2029 (USD MILLION) □101

TABLE 40 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR ASSAYS & KITS, BY COUNTRY, 2022-2029 (USD MILLION) □101

6.2.2 □ ENZYMES □102

6.2.2.1 □ High uptake in molecular techniques to drive market □102

TABLE 41 □ GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY REGION, 2022-2029 (USD MILLION) □102

TABLE 42 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY COUNTRY, 2022-2029 (USD MILLION) □103

TABLE 43 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY COUNTRY, 2022-2029 (USD MILLION) □103

TABLE 44 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY COUNTRY, 2022-2029 (USD MILLION) □104

TABLE 45 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY COUNTRY, 2022-2029 (USD MILLION) □104

TABLE 46 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY REGION, 2022-2029 (USD MILLION) □104

TABLE 47 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR ENZYMES, BY COUNTRY, 2022-2029 (USD MILLION) □105

6.2.3 □ DNA CHIPS □105

6.2.3.1 □ Rising demand across forensic research applications to propel market □105

TABLE 48 □ GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY REGION, 2022-2029 (USD MILLION) □106

TABLE 49 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY COUNTRY, 2022-2029 (USD MILLION) □106

TABLE 50 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY COUNTRY, 2022-2029 (USD MILLION) □107

TABLE 51 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY COUNTRY, 2022-2029 (USD MILLION) □107

TABLE 52 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY COUNTRY, 2022-2029 (USD MILLION) □108

TABLE 53 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY REGION, 2022-2029 (USD MILLION) □108

TABLE 54 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR DNA CHIPS, BY COUNTRY, 2022-2029 (USD MILLION) □108

6.2.4 □ OTHER REAGENTS & CONSUMABLES □109

TABLE 55 □ GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY REGION, 2022-2029 (USD MILLION) □109

TABLE 56 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) □110

TABLE 57 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) □110

TABLE 58 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) □111

TABLE 59 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) □111

TABLE 60 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY REGION, 2022-2029 (USD MILLION) □111

TABLE 61 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR OTHER REAGENTS & CONSUMABLES, BY COUNTRY, 2022-2029 (USD MILLION) □112

6.3 □ INSTRUMENTS □112

TABLE 62 □ GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) □112

TABLE 63 □ GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY REGION, 2022-2029 (USD MILLION) □113

TABLE 64 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □113

TABLE 65 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □114

TABLE 66 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □114

TABLE 67 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □115

TABLE 68 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY REGION, 2022-2029 (USD MILLION) □115

TABLE 69 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □115

6.3.1 □ PCR □116

6.3.1.1 □ Growing focus on development of novel PCR kits to boost demand □116

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TABLE 70 □ GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY REGION, 2022-2029 (USD MILLION) □117

TABLE 71 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY COUNTRY, 2022-2029 (USD MILLION) □117

TABLE 72 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY COUNTRY, 2022-2029 (USD MILLION) □118

TABLE 73 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY COUNTRY, 2022-2029 (USD MILLION) □118

TABLE 74 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY COUNTRY, 2022-2029 (USD MILLION) □119

TABLE 75 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY REGION, 2022-2029 (USD MILLION) □119

TABLE 76 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR PCR, BY COUNTRY, 2022-2029 (USD MILLION) □119

6.3.2 □ NGS □120

6.3.2.1 □ Increasing investments in advanced technologies to drive market □120

TABLE 77 □ GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY REGION, 2022-2029 (USD MILLION) □120

TABLE 78 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY COUNTRY, 2022-2029 (USD MILLION) □121

TABLE 79 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY COUNTRY, 2022-2029 (USD MILLION) □121

TABLE 80 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY COUNTRY, 2022-2029 (USD MILLION) □122

TABLE 81 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY COUNTRY, 2022-2029 (USD MILLION) □122

TABLE 82 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY REGION, 2022-2029 (USD MILLION) □122

TABLE 83 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR NGS, BY COUNTRY, 2022-2029 (USD MILLION) □123

6.3.3 □ DNA MICROARRAYS □123

6.3.3.1 □ High-throughput capabilities to propel market □123

TABLE 84 □ GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY REGION, 2022-2029 (USD MILLION) □124

TABLE 85 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY COUNTRY, 2022-2029 (USD MILLION) □124

TABLE 86 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY COUNTRY, 2022-2029 (USD MILLION) □125

TABLE 87 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY COUNTRY, 2022-2029 (USD MILLION) □125

TABLE 88 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY COUNTRY, 2022-2029 (USD MILLION) □126

TABLE 89 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY REGION 2022-2029 (USD MILLION) □126

TABLE 90 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR DNA MICROARRAYS, BY COUNTRY, 2022-2029 (USD MILLION) □126

6.3.4 □ OTHER INSTRUMENTS □127

TABLE 91 □ GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY REGION, 2022-2029 (USD MILLION) □127

TABLE 92 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □128

TABLE 93 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □128

TABLE 94 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □129

TABLE 95 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □129

TABLE 96 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY REGION, 2022-2029 (USD MILLION) □129

TABLE 97 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR OTHER INSTRUMENTS, BY COUNTRY, 2022-2029 (USD MILLION) □130

6.4 □ SERVICES □130

TABLE 98 □ GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) □130

TABLE 99 □ GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY REGION, 2022-2029 (USD MILLION) □131

TABLE 100 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □131

TABLE 101 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □132

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TABLE 102 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 132

TABLE 103 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 133

TABLE 104 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY REGION, 2022-2029 (USD MILLION) □ 133

TABLE 105 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 133

6.4.1 □ GENE EXPRESSION ANALYSIS SERVICES □ 134

TABLE 106 □ GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) □ 134

6.4.1.1 □ RNA sequencing services □ 134

6.4.1.1.1 □ Rising technological advancements for drug discovery development to propel market □ 134

TABLE 107 □ GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY REGION, 2022-2029 (USD MILLION) □ 135

TABLE 108 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 135

TABLE 109 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 136

TABLE 110 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 136

TABLE 111 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 137

TABLE 112 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY REGION, 2022-2029 (USD MILLION) □ 137

TABLE 113 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR RNA SEQUENCING SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 137

6.4.1.2 □ Other services □ 138

TABLE 114 □ GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY REGION, 2022-2029 (USD MILLION) □ 138

TABLE 115 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 139

TABLE 116 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 139

TABLE 117 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 140

TABLE 118 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 140

TABLE 119 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY REGION, 2022-2029 (USD MILLION) □ 140

TABLE 120 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR OTHER SERVICES, BY COUNTRY, 2022-2029 (USD MILLION) □ 141

6.4.2 □ BIOINFORMATICS SOLUTIONS □ 141

6.4.2.1 □ Increasing demand for advanced data analytics to support market growth □ 141

TABLE 121 □ GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY REGION, 2022-2029 (USD MILLION) □ 142

TABLE 122 □ NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY COUNTRY, 2022-2029 (USD MILLION) □ 142

TABLE 123 □ EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY COUNTRY, 2022-2029 (USD MILLION) □ 143

TABLE 124 □ ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY COUNTRY, 2022-2029 (USD MILLION) □ 143

TABLE 125 □ LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY COUNTRY, 2022-2029 (USD MILLION) □ 144

TABLE 126 □ MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY REGION, 2022-2029 (USD MILLION) □ 144

TABLE 127 □ GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR BIOINFORMATICS SOLUTIONS, BY COUNTRY, 2022-2029 (USD MILLION) □ 144

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7 GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION 145

7.1 INTRODUCTION 146

TABLE 128 GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 146

7.2 DRUG DISCOVERY & DEVELOPMENT 146

7.2.1 INCREASING INVESTMENTS IN RNA-BASED THERAPEUTICS TO PROPEL MARKET 146

TABLE 129 GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY REGION, 2022-2029 (USD MILLION) 147

TABLE 130 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2022-2029 (USD MILLION) 147

TABLE 131 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2022-2029 (USD MILLION) 148

TABLE 132 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2022-2029 (USD MILLION) 148

TABLE 133 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2022-2029 (USD MILLION) 149

TABLE 134 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY REGION, 2022-2029 (USD MILLION) 149

TABLE 135 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR DRUG DISCOVERY & DEVELOPMENT, BY COUNTRY, 2022-2029 (USD MILLION) 149

7.3 CLINICAL DIAGNOSTICS 150

7.3.1 RISING UTILIZATION OF MICROARRAYS FOR CANCER DETECTION TO DRIVE MARKET 150

TABLE 136 GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY REGION, 2022-2029 (USD MILLION) 151

TABLE 137 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 151

TABLE 138 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 152

TABLE 139 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 152

TABLE 140 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 153

TABLE 141 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY REGION, 2022-2029 (USD MILLION) 153

TABLE 142 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR CLINICAL DIAGNOSTICS, BY COUNTRY, 2022-2029 (USD MILLION) 153

7.4 OTHER APPLICATIONS 154

TABLE 143 GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 154

TABLE 144 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 155

TABLE 145 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 155

TABLE 146 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 156

TABLE 147 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 156

TABLE 148 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY REGION, 2022-2029 (USD MILLION) 157

TABLE 149 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR OTHER APPLICATIONS, BY COUNTRY, 2022-2029 (USD MILLION) 157

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8 GENE EXPRESSION ANALYSIS MARKET, BY END USER 158

8.1 INTRODUCTION 159

TABLE 150 GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 159

8.2 PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES 159

8.2.1 GROWING FOCUS ON DEVELOPMENT OF TARGETED THERAPIES TO BOOST DEMAND 159

TABLE 151 GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2022-2029 (USD MILLION) 160

TABLE 152 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022-2029 (USD MILLION) 160

TABLE 153 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022-2029 (USD MILLION) 161

TABLE 154 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022-2029 (USD MILLION) 161

TABLE 155 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022-2029 (USD MILLION) 162

TABLE 156 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY REGION, 2022-2029 (USD MILLION) 162

TABLE 157 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES, BY COUNTRY, 2022-2029 (USD MILLION) 162

8.3 ACADEMIC & RESEARCH INSTITUTES 163

8.3.1 INCREASING GOVERNMENT-FUNDED INVESTMENTS TO PROPEL MARKET 163

TABLE 158 GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION, 2022-2029 (USD MILLION) 164

TABLE 159 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2022-2029 (USD MILLION) 164

TABLE 160 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2022-2029 (USD MILLION) 165

TABLE 161 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2022-2029 (USD MILLION) 165

TABLE 162 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2022-2029 (USD MILLION) 166

TABLE 163 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY REGION, 2022-2029 (USD MILLION) 166

TABLE 164 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR ACADEMIC & RESEARCH INSTITUTES, BY COUNTRY, 2022-2029 (USD MILLION) 166

8.4 OTHER END USERS 167

TABLE 165 GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY REGION, 2022-2029 (USD MILLION) 167

TABLE 166 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY COUNTRY, 2022-2029 (USD MILLION) 168

TABLE 167 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY COUNTRY, 2022-2029 (USD MILLION) 168

TABLE 168 ASIA PACIFIC: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY COUNTRY, 2022-2029 (USD MILLION) 169

TABLE 169 LATIN AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY COUNTRY, 2022-2029 (USD MILLION) 169

TABLE 170 MIDDLE EAST: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY REGION, 2022-2029 (USD MILLION) 170

TABLE 171 GCC COUNTRIES: GENE EXPRESSION ANALYSIS MARKET FOR OTHER END USERS, BY COUNTRY, 2022-2029 (USD

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MILLION) 170

9 GENE EXPRESSION ANALYSIS MARKET, BY REGION 171

9.1 INTRODUCTION 172

TABLE 172 GENE EXPRESSION ANALYSIS MARKET, BY REGION, 2022-2029 (USD MILLION) 172

9.2 NORTH AMERICA 173

FIGURE 31 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET SNAPSHOT 173

TABLE 173 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 174

TABLE 174 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 174

TABLE 175 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 174

TABLE 176 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 175

TABLE 177 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 175

TABLE 178 NORTH AMERICA: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 175

TABLE 179 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 176

TABLE 180 NORTH AMERICA: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 176

9.2.1 NORTH AMERICA: RECESSION IMPACT 176

9.2.2 US 177

9.2.2.1 Rising expenditure on NGS-based research to drive market 177

TABLE 181 US: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 177

TABLE 182 US: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 178

TABLE 183 US: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 178

TABLE 184 US: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 178

TABLE 185 US: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 179

TABLE 186 US: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 179

TABLE 187 US: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 179

9.2.3 CANADA 180

9.2.3.1 Increasing incidence of chronic diseases to drive market 180

TABLE 188 CANADA: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 180

TABLE 189 CANADA: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 181

TABLE 190 CANADA: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 181

TABLE 191 CANADA: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 181

TABLE 192 CANADA: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 182

TABLE 193 CANADA: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 182

TABLE 194 CANADA: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 182

9.3 EUROPE 183

TABLE 195 EUROPE: GENE EXPRESSION ANALYSIS MARKET, BY COUNTRY, 2022-2029 (USD MILLION) 183

TABLE 196 EUROPE: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 184

TABLE 197 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 184

TABLE 198 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 184

TABLE 199 EUROPE: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 185

TABLE 200 EUROPE: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 185

TABLE 201 EUROPE: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 185

TABLE 202 EUROPE: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 186

9.3.1 EUROPE: RECESSION IMPACT 186

9.3.2 GERMANY 186

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9.3.2.1 Rising investments in proteomics & genomics research to drive market 186

TABLE 203 GERMANY: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 187

TABLE 204 GERMANY: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 188

TABLE 205 GERMANY: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 188

TABLE 206 GERMANY: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 188

TABLE 207 GERMANY: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 189

TABLE 208 GERMANY: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 189

TABLE 209 GERMANY: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 189

9.3.3 UK 190

9.3.3.1 Favorable government support for genomic research projects to fuel market 190

TABLE 210 UK: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 191

TABLE 211 UK: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 191

TABLE 212 UK: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 191

TABLE 213 UK: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 192

TABLE 214 UK: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 192

TABLE 215 UK: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 192

TABLE 216 UK: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 193

9.3.4 FRANCE 193

9.3.4.1 Increasing R&D in life sciences research to fuel market 193

TABLE 217 FRANCE: GENE EXPRESSION ANALYSIS MARKET, BY PRODUCT & SERVICE, 2022-2029 (USD MILLION) 194

TABLE 218 FRANCE: GENE EXPRESSION ANALYSIS MARKET FOR REAGENTS & CONSUMABLES, BY TYPE, 2022-2029 (USD MILLION) 194

TABLE 219 FRANCE: GENE EXPRESSION ANALYSIS MARKET FOR INSTRUMENTS, BY TYPE, 2022-2029 (USD MILLION) 194

TABLE 220 FRANCE: GENE EXPRESSION ANALYSIS MARKET FOR SERVICES, BY TYPE, 2022-2029 (USD MILLION) 195

TABLE 221 FRANCE: GENE EXPRESSION ANALYSIS SERVICES MARKET, BY TYPE, 2022-2029 (USD MILLION) 195

TABLE 222 FRANCE: GENE EXPRESSION ANALYSIS MARKET, BY APPLICATION, 2022-2029 (USD MILLION) 195

TABLE 223 FRANCE: GENE EXPRESSION ANALYSIS MARKET, BY END USER, 2022-2029 (USD MILLION) 196

Gene Expression Analysis Market by Product (Reagents, Enzymes, kits, DNA Chips, PCR, NGS, DNA Microarray), Service (RNA Sequencing, Bioinformatics), Application (Drug discovery & development, clinical diagnostics), End User - Global Forecast to 2029

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