

# Targeted Sequencing And Resequencing Market Size, Share & Trends Analysis Report By Technology (NGS, Others), By Workflow, By Application, By Type, By End-use, By Region, And Segment Forecasts, 2023 - 2030

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## Abstracts

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### Targeted Sequencing And Resequencing Market Growth & Trends

The global targeted sequencing and resequencing market size is expected to reach USD 25.7 billion expanding at a CAGR of 22.59% from 2023 to 2030, according to a new report by Grand View Research, Inc. Owing to the continuous technological developments in genome sequencers along with broad applications and adoption of NGS technology is expected drive the market growth. Furthermore, the increasing application of NGS in molecular diagnostics and precision medicine is also anticipated to create growth opportunities for market growth.

NGS is expected to witness increasing adoption in various disease conditions and infectious disease treatment, along with Noninvasive Prenatal Testing, transplant medicine, and pharmacogenomics. Targeted gene panels and gene expression profiling through qPCR remain the two most common applications for NGS sequencers in a pathology laboratory. While oncology remains a primary area of NGS use in clinics, pathologists are expected to adopt it in other areas too over the coming years. Such factors are expected to boost market growth in the forecast period.

On the other hand, the introduction of novel products is expected to boost targeted sequencing and resequencing market growth. For instance, in October 2022, the

Illumina genomics Forum introduced the NovaSeq X, which can run around 20,000 whole genomes a year on one system. This novel system has 10 billion flow cells. When run at 2?150 base pair reads, it will output 6 TB. Moreover, in December 2021, F. Hoffmann-La Roche AG launched the AVENIO Edge System for simplifying the automation of NGS sample preparation and driving advancements in precision medicine. This novel system is a pre-analytical platform that offers end-to-end, integrated, consistently high-quality outcomes.

Key entities in the targeted sequencing & resequencing market are focusing on collaboration to strengthen their market position. For instance, in March 2021, Illumina collaborated with Geneseeq to commercialize and develop IVD NGS kits in China for cancer care. This novel kit was developed by using Illumina's NextSeq 550Dx sequencing system, which was approved by China's NMPA (National Medical Products Administration). Moreover, in March 2021, Hackensack Meridian Health and Genomic Testing Cooperative (GTC) entered into a partnership to establish an oncology-focused RNA and DNA sequencing laboratory in the U.S. This lab—Anthology Diagnostics—will perform NGS of cell-free DNA from liquid biopsy samples and DNA/RNA from tumor samples.

## Targeted Sequencing And Resequencing Market Report Highlights

The growth of the overall targeted sequencing and resequencing market is attributed to the increase in the adoption of NGS for various applications including disease diagnosis, drug development, and research applications

By sequencing technology, sequencing segment dominated the market owing to the increase in applications of genome sequencing in human genetic research, microbial research, cancer research, and others

Clinical application segment held a major share in 2022. Targeted sequencing has broadly applied in clinical research and trials for patient categorization and the development of targeted therapeutics

Drug development segment is expected to show significant market share in the coming years. NGS technology can develop multiple levels of genomic data needed for the drug development process from genetic modification, to transcriptome quantification and profiling, and epigenetic modifications, among others

By end-use, Hospitals and clinics is expected show a significant market share in the forecast period. This is attributed to the increasing usage of NGS by clinicians to test several genes for mutations, copy number changes, and fusions

North America dominated the targeted sequencing and resequencing market in 2022 due to the presence of key players and favorable government initiatives from the government for increased adoption of NGS technologies

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Information Procurement
- 1.2. Information or Data Analysis
- 1.3. Market Scope & Segment Definition
- 1.4. Market Model
  - 1.4.1. Market Study, By Company Market Share
  - 1.4.2. Regional Analysis

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

### **CHAPTER 3. MARKET VARIABLES, TRENDS, & SCOPE**

- 3.1. Market Segmentation and Scope
- 3.2. Market Lineage Outlook
  - 3.2.1. Parent Market Outlook
  - 3.2.2. Related/Ancillary Market Outlook
- 3.3. Market Trends and Outlook
- 3.4. Market Dynamics
  - 3.4.1. Cost-saving advantages pertaining to the adoption of targeted sequencing approach as well as reducing sequencing cost
  - 3.4.2. Advantages associated with targeted gene panels and amplicon sequencing
  - 3.4.3. Technological advancements in sequencing technology and related ancillary protocols
  - 3.4.4. Advancements to perform sequencing in less time
  - 3.4.5. Introduction of digital next-generation sequencing technology
  - 3.4.6. Rising number of targeted sequencing-based research projects and consequent popularity growth of genomic medicine
- 3.5. Market Restraint Analysis
  - 3.5.1. Challenges in handling & managing sequencing technologies in developing countries
  - 3.5.2. High cost associated with installation & maintenance of sequencing facility
  - 3.5.3. Lack of skilled & trained personnel

- 3.5.4. Limited access to tools for genomic data manipulation and analysis
- 3.6. Penetration and Growth Prospect Mapping 2022
- 3.7. Business Environment Analysis
  - 3.7.1. SWOT Analysis; By Factor (Political & Legal, Economic And Technological)
  - 3.7.2. Porter's Five Forces Analysis
- 3.8. COVID-19 Impact Analysis

## **CHAPTER 4. TECHNOLOGY BUSINESS ANALYSIS**

- 4.1. Targeted Sequencing and Resequencing Market: Technology Movement Analysis
- 4.2. Sequencing
  - 4.2.1. Sequencing Market, 2018 - 2030 (USD Million)
- 4.3. Re sequencing
  - 4.3.1. Re sequencing market, 2018 - 2030 (USD Million)
    - 4.3.1.1. Electrophoresis-based sequencing
      - 4.3.1.1.1. Electrophoresis-based sequencing market, 2018 - 2030 (USD Million)
    - 4.3.1.2. NGS
      - 4.3.1.2.1. NGS market, 2018 - 2030 (USD Million)
    - 4.3.1.3. Array-based sequencing
      - 4.3.1.3.1. Array-based sequencing market, 2018 - 2030 (USD Million)

## **CHAPTER 5. APPLICATION BUSINESS ANALYSIS**

- 5.1. Targeted Sequencing and Resequencing Market: Application Movement Analysis
- 5.2. Clinical applications
  - 5.2.1. Clinical applications market, 2018 - 2030 (USD Million)
- 5.3. Plant and animal sciences
  - 5.3.1. Plant and animal sciences market, 2018 - 2030 (USD Million)
- 5.4. Drug development
  - 5.4.1. Drug development market, 2018 - 2030 (USD Million)

## **CHAPTER 6. TYPE BUSINESS ANALYSIS**

- 6.1. Targeted Sequencing and Resequencing Market: Type Movement Analysis
- 6.2. DNA-based targeted sequencing
  - 6.2.1. DNA-based targeted sequencing market, 2018 - 2030 (USD Million)
- 6.3. RNA-based targeted sequencing
  - 6.3.1. RNA-based targeted sequencing market, 2018 - 2030 (USD Million)

## **CHAPTER 7. END-USE BUSINESS ANALYSIS**

7.1. Targeted Sequencing and Resequencing Market: End-use Movement Analysis

7.2. Hospitals and clinics

7.2.1. Hospitals and clinics market, 2018 - 2030 (USD Million)

7.3. Academic research

7.3.1. Academic research market, 2018 - 2030 (USD Million)

7.4. Others

7.4.1. Others market, 2018 - 2030 (USD Million)

## **CHAPTER 8. REGIONAL BUSINESS ANALYSIS**

8.1. Targeted Sequencing and Resequencing Market Share By Region, 2022 & 2030

8.2. North America

8.2.1. SWOT Analysis

8.2.2. North America Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.2.3. U.S.

8.2.3.1. Key Country Dynamics

8.2.3.2. Target Disease Prevalence

8.2.3.3. Competitive Scenario

8.2.3.4. Regulatory Framework

8.2.3.5. Reimbursement Scenario

8.2.3.6. U.S. Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD MILLION)

8.2.4. Canada

8.2.4.1. Key Country Dynamics

8.2.4.2. Target Disease Prevalence

8.2.4.3. Competitive Scenario

8.2.4.4. Regulatory Framework

8.2.4.5. Reimbursement Scenario

8.2.4.6. Canada Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.3. Europe

8.3.1. SWOT Analysis

8.3.2. Europe Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.3.3. Germany

8.3.3.1. Key Country Dynamics

8.3.3.2. Target Disease Prevalence

8.3.3.3. Competitive Scenario

8.3.3.4. Regulatory Framework

8.3.3.5. Reimbursement Scenario

8.3.3.6. Germany Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

8.3.4. U.K.

8.3.4.1. Key Country Dynamics

8.3.4.2. Target Disease Prevalence

8.3.4.3. Competitive Scenario

8.3.4.4. Regulatory Framework

8.3.4.5. Reimbursement Scenario

8.3.4.6. UK Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.3.5. France

8.3.5.1. Key Country Dynamics

8.3.5.2. Target Disease Prevalence

8.3.5.3. Competitive Scenario

8.3.5.4. Regulatory Framework

8.3.5.5. Reimbursement Scenario

8.3.5.6. France Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.3.6. Italy

8.3.6.1. Key Country Dynamics

8.3.6.2. Target Disease Prevalence

8.3.6.3. Competitive Scenario

8.3.6.4. Regulatory Framework

8.3.6.5. Reimbursement Scenario

8.3.6.6. Italy Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.3.7. Spain

8.3.7.1. Key Country Dynamics

8.3.7.2. Target Disease Prevalence

8.3.7.3. Competitive Scenario

8.3.7.4. Regulatory Framework

8.3.7.5. Reimbursement Scenario

8.3.7.6. Spain Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.3.8. Denmark

- 8.3.8.1. Key Country Dynamics
- 8.3.8.2. Target Disease Prevalence
- 8.3.8.3. Competitive Scenario
- 8.3.8.4. Regulatory Framework
- 8.3.8.5. Reimbursement Scenario
- 8.3.8.6. Denmark Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

#### 8.3.9. Sweden

- 8.3.9.1. Key Country Dynamics
- 8.3.9.2. Target Disease Prevalence
- 8.3.9.3. Competitive Scenario
- 8.3.9.4. Regulatory Framework
- 8.3.9.5. Reimbursement Scenario
- 8.3.9.6. Sweden Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

#### 8.3.10. Norway

- 8.3.10.1. Key Country Dynamics
- 8.3.10.2. Target Disease Prevalence
- 8.3.10.3. Competitive Scenario
- 8.3.10.4. Regulatory Framework
- 8.3.10.5. Reimbursement Scenario
- 8.3.10.6. Norway Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

### 8.4. Asia Pacific

#### 8.4.1. SWOT Analysis

- 8.4.1.1. Asia Pacific Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

#### 8.4.2. Japan

- 8.4.2.1. Key Country Dynamics
- 8.4.2.2. Target Disease Prevalence
- 8.4.2.3. Competitive Scenario
- 8.4.2.4. Regulatory Framework
- 8.4.2.5. Reimbursement Scenario
- 8.4.2.6. Japan Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

#### 8.4.3. China

- 8.4.3.1. Key Country Dynamics
- 8.4.3.2. Target Disease Prevalence
- 8.4.3.3. Competitive Scenario



8.4.3.4. Regulatory Framework

8.4.3.5. Reimbursement Scenario

8.4.3.6. China Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.4.4. India

8.4.4.1. Key Country Dynamics

8.4.4.2. Target Disease Prevalence

8.4.4.3. Competitive Scenario

8.4.4.4. Regulatory Framework

8.4.4.5. Reimbursement Scenario

8.4.4.6. India Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.4.5. South Korea

8.4.5.1. Key Country Dynamics

8.4.5.2. Target Disease Prevalence

8.4.5.3. Competitive Scenario

8.4.5.4. Regulatory Framework

8.4.5.5. Reimbursement Scenario

8.4.5.6. South Korea Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.4.6. Australia

8.4.6.1. Key Country Dynamics

8.4.6.2. Target Disease Prevalence

8.4.6.3. Competitive Scenario

8.4.6.4. Regulatory Framework

8.4.6.5. Reimbursement Scenario

8.4.6.6. Australia Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.4.7. Thailand

8.4.7.1. Key Country Dynamics

8.4.7.2. Target Disease Prevalence

8.4.7.3. Competitive Scenario

8.4.7.4. Regulatory Framework

8.4.7.5. Reimbursement Scenario

8.4.7.6. Thailand Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD Million)

8.5. Latin America

8.5.1. SWOT Analysis

8.5.2. Latin America Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

8.5.3. Brazil

8.5.3.1. Key Country Dynamics

8.5.3.2. Target Disease Prevalence

8.5.3.3. Competitive Scenario

8.5.3.4. Regulatory Framework

8.5.3.5. Reimbursement Scenario

8.5.3.6. Brazil Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.5.4. Mexico

8.5.4.1. Key Country Dynamics

8.5.4.2. Target Disease Prevalence

8.5.4.3. Competitive Scenario

8.5.4.4. Regulatory Framework

8.5.4.5. Reimbursement Scenario

8.5.4.6. Mexico Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.5.5. Argentina

8.5.5.1. Key Country Dynamics

8.5.5.2. Target Disease Prevalence

8.5.5.3. Competitive Scenario

8.5.5.4. Regulatory Framework

8.5.5.5. Reimbursement Scenario

8.5.5.6. Argentina Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

8.6. MEA

8.6.1. SWOT Analysis

8.6.2. MEA Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.6.3. South Africa

8.6.3.1. Key Country Dynamics

8.6.3.2. Target Disease Prevalence

8.6.3.3. Competitive Scenario

8.6.3.4. Regulatory Framework

8.6.3.5. Reimbursement Scenario

8.6.3.6. South Africa Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

8.6.4. Saudi Arabia

8.6.4.1. Key Country Dynamics

8.6.4.2. Target Disease Prevalence

8.6.4.3. Competitive Scenario

8.6.4.4. Regulatory Framework

8.6.4.5. Reimbursement Scenario

8.6.4.6. Saudi Arabia Targeted Sequencing and Resequencing Market, 2018 - 2030

(USD Million)

8.6.5. UAE

8.6.5.1. Key Country Dynamics

8.6.5.2. Target Disease Prevalence

8.6.5.3. Competitive Scenario

8.6.5.4. Regulatory Framework

8.6.5.5. Reimbursement Scenario

8.6.5.6. UAE Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

8.6.6. Kuwait

8.6.6.1. Key Country Dynamics

8.6.6.2. Target Disease Prevalence

8.6.6.3. Competitive Scenario

8.6.6.4. Regulatory Framework

8.6.6.5. Reimbursement Scenario

8.6.6.6. Kuwait Targeted Sequencing and Resequencing Market, 2018 - 2030 (USD

Million)

## **CHAPTER 9. COMPETITIVE LANDSCAPE**

9.1. Participant's overview

9.2. Financial performance

9.3. Participant categorization

9.3.1. Market Leaders

9.3.2. Targeted Sequencing and Resequencing Market Share Analysis, 2022

9.3.3. Company Profiles

9.3.3.1. Illumina, Inc.

9.3.3.2. F. Hoffmann-La Roche Ltd

9.3.3.3. Agilent Technologies

9.3.3.4. GATC Biotech Ag

9.3.3.5. Oxford Nanopore Technologies

9.3.3.6. Thermo Fisher Scientific, Inc.

9.3.3.7. DNASTAR Inc.

9.3.3.8. QIAGEN

- 9.3.3.9. BGI
- 9.3.3.10. Perkin Elmer, Inc.
- 9.3.3.11. PacBio
- 9.3.3.12. Bio-Rad Laboratories, Inc.
- 9.3.3.13. Integrated DNA Technologies, Inc.
- 9.3.3.14. RainDance Technologies, Inc.
- 9.3.3.15. PierianDx
- 9.3.3.16. Genomatix GmbH
- 9.3.3.17. Macrogen, Inc.
- 9.3.4. Strategy Mapping
  - 9.3.4.1. Expansion
  - 9.3.4.2. Acquisition
  - 9.3.4.3. Collaborations
  - 9.3.4.4. Product/Service Launch
  - 9.3.4.5. Partnerships
  - 9.3.4.6. Others

## List Of Tables

### LIST OF TABLES

Table 1 List of Tables

Table 2 List of Secondary Sources

Table 3 List of Abbreviations

Table 4 Global Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 5 Global Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 6 Global Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 7 Global Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 8 Global Targeted sequencing and resequencing market, by region, 2018 - 2030 (USD Million)

Table 9 North America Targeted sequencing and resequencing market, by country, 2018 - 2030 (USD Million)

Table 10 North America Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 11 North America Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 12 North America Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 13 North America Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 14 U.S. Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 15 U.S. Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 16 U.S. Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 17 U.S. Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 18 Canada Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 19 Canada Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 20 Canada Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 21 Canada Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 22 Europe Targeted sequencing and resequencing market, by Country, 2018 - 2030 (USD Million)

Table 23 Europe Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 24 Europe Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 25 Europe Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 26 Europe Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 27 Germany Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 28 Germany Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 29 Germany Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 30 Germany Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 31 U.K. Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 32 U.K. Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 33 U.K. Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 34 U.K. Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 35 France Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 36 France Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 37 France Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 38 France Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 39 Italy Targeted sequencing and resequencing market, by technology, 2018 -

2030 (USD Million)

Table 40 Italy Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 41 Italy Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 42 Italy Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 43 Spain Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 44 Spain Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 45 Spain Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 46 Spain Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 47 Denmark Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 48 Denmark Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 49 Denmark Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 50 Denmark Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 51 Sweden Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 52 Sweden Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 53 Sweden Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 54 Sweden Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 55 Norway Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 56 Norway Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 57 Norway Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 58 Norway Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

- Table 59 Asia Pacific Targeted sequencing and resequencing market, by Country, 2018 - 2030 (USD Million)
- Table 60 Asia Pacific Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)
- Table 61 Asia Pacific Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)
- Table 62 Asia Pacific Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)
- Table 63 Asia Pacific Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)
- Table 64 China Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)
- Table 65 China Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)
- Table 66 China Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)
- Table 67 China Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)
- Table 68 Japan Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)
- Table 69 Japan Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)
- Table 70 Japan Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)
- Table 71 Japan Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)
- Table 72 India Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)
- Table 73 India Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)
- Table 74 India Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)
- Table 75 India Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)
- Table 76 Australia Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)
- Table 77 Australia Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)
- Table 78 Australia Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)



(USD Million)

Table 79 Australia Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 80 South Korea Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 81 South Korea Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 82 South Korea Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 83 South Korea Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 84 Thailand Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 85 Thailand Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 86 Thailand Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 87 Thailand Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 88 Latin America Targeted sequencing and resequencing market, by Country, 2018 - 2030 (USD Million)

Table 89 Latin America Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 90 Latin America Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 91 Latin America Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 92 Latin America Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 93 Brazil Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 94 Brazil Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 95 Brazil Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 96 Brazil Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 97 Mexico Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 98 Mexico Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 99 Mexico Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 100 Mexico Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 101 Argentina Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 102 Argentina Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 103 Argentina Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 104 Argentina Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 105 Middle East & Africa Targeted sequencing and resequencing market, by Country, 2018 - 2030 (USD Million)

Table 106 Middle East & Africa Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 107 Middle East & Africa Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 108 Middle East & Africa Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 109 Middle East & Africa Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 110 South Africa Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 111 South Africa Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 112 South Africa Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 113 South Africa Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 114 Saudi Arabia Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 115 Saudi Arabia Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 116 Saudi Arabia Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 117 Saudi Arabia Targeted sequencing and resequencing market, by end-use,

2018 - 2030 (USD Million)

Table 118 UAE Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 119 UAE Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 120 UAE Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 121 UAE Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (USD Million)

Table 122 Kuwait Targeted sequencing and resequencing market, by technology, 2018 - 2030 (USD Million)

Table 123 Kuwait Targeted sequencing and resequencing market, by application, 2018 - 2030 (USD Million)

Table 124 Kuwait Targeted sequencing and resequencing market, by type, 2018 - 2030 (USD Million)

Table 125 Kuwait Targeted sequencing and resequencing market, by end-use, 2018 - 2030 (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 Market Formulation & Validation
- Fig. 7 Targeted Sequencing And Resequencing, Market Segmentation
- Fig. 8 Market Snapshot, 2021
- Fig. 9 Market Trends & Outlook
- Fig. 10 Market Driver Relevance Analysis (Current & Future Impact)
- Fig. 11 Market Restraint Relevance Analysis (Current & Future Impact)
- Fig. 12 Market Challenge Relevance Analysis (Current & Future Impact)
- Fig. 13 SWOT Analysis, By Factor (Political & Legal, Economic and Technological)
- Fig. 14 Porter's Five Forces Analysis
- Fig. 15 Market Penetration Vs Growth Prospect Mapping, 2021
- Fig. 16 Global Targeted Sequencing And Resequencing Market: Technology Movement Analysis
- Fig. 17 Global Targeted Sequencing And Resequencing Market, for Sequencing, 2018 - 2030 (USD Million)
- Fig. 18 Global Targeted Sequencing And Resequencing Market, for Re sequencing, 2018 - 2030 (USD Million)
- Fig. 19 Targeted Sequencing And Resequencing Market, for Electrophoresis-based resequencing, 2018 - 2030 (USD Million)
- Fig. 20 Targeted Sequencing And Resequencing Market, for NGS, 2018 - 2030 (USD Million)
- Fig. 21 Targeted Sequencing And Resequencing Market, for Array-based resequencing, 2018 - 2030 (USD Million)
- Fig. 22 Global Targeted Sequencing And Resequencing Market, for Application, Movement Analysis
- Fig. 23 Global Targeted Sequencing And Resequencing Market, for Clinical application, 2018 - 2030 (USD Million)
- Fig. 24 Global Targeted Sequencing And Resequencing Market, for Plant and animal sciences, 2018 - 2030 (USD Million)
- Fig. 25 Global Targeted Sequencing And Resequencing Market, for Drug development, 2018 - 2030 (USD Million)

Fig. 26 Global Targeted Sequencing And Resequencing Market, for Others, 2018 - 2030 (USD Million)

Fig. 27 Global Targeted Sequencing And Resequencing Market, for type, Movement Analysis

Fig. 28 Global Targeted Sequencing And Resequencing Market, for DNA-based targeted sequencing, 2018 - 2030 (USD Million)

Fig. 29 Global Targeted Sequencing And Resequencing Market, for RNA-based targeted sequencing, 2018 - 2030 (USD Million)

Fig. 30 Global Targeted Sequencing And Resequencing Market, for End-use, Movement Analysis

Fig. 31 Global Targeted Sequencing And Resequencing Market, for Hospitals & clinics, 2018 - 2030 (USD Million)

Fig. 32 Global Targeted Sequencing And Resequencing Market, for Academic research, 2018 - 2030 (USD Million)

Fig. 33 Global Targeted Sequencing And Resequencing Market, for Others, 2018 - 2030 (USD Million)

Fig. 34 Regional Marketplace: Key Takeaways

Fig. 35 Regional Outlook, 2022 & 2030

Fig. 36 Global Targeted Sequencing And Resequencing Market: Region Movement Analysis

Fig. 37 North America Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 38 U.S. Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 39 Canada Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 40 Europe Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 41 Germany Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 42 U.K. Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 43 France Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 44 Italy Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 45 Spain Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 46 Sweden Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Million)

Fig. 47 Denmark Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 48 Norway Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 49 Asia Pacific Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 50 Japan Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 51 China Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 52 India Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 53 Australia Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 54 South Korea Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 55 Latin America Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 56 Brazil Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 57 Mexico Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 58 Argentina Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 59 Middle East and Africa Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 60 South Africa Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 61 Saudi Arabia Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 62 UAE Targeted Sequencing And Resequencing Market, 2018 - 2030 (USD Million)

Fig. 63 Kuwait Targeted Sequencing And Resequencing Market, Ansoff Matrix

Fig. 64 Market differentiators

Fig. 65 Key company market share analysis, 2022

Fig. 66 Company market position analysis

Fig. 67 Competitive dashboard analysis

Fig. 68 Regional network map

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