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South Korea Next Generation Sequencing Market Size, Share, Trends and Forecast by Sequencing Type, Product Type, Technology, Application, End User, and Region, 2026-2034

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Abstracts

The South Korea next generation sequencing market size reached USD 512.9 Million in 2025. Looking forward, the market is expected to reach USD 1,767.3 Million by 2034, exhibiting a growth rate (CAGR) of 14.29% during 2026-2034. The growth of the market is driven by advancements in genomics, personalized medicine, and cancer research. Government support and improved accuracy, speed, and affordability of sequencing technologies are expanding applications across healthcare, agriculture, and research, thereby enhancing South Korea next generation sequencing market share.

SOUTH KOREA NEXT GENERATION SEQUENCING MARKET TRENDS:

Increase in Applications for Cancer Research

In the discipline of cancer research, the next generation sequencing (NGS) market in South Korea is expanding significantly. NGS has become a crucial technique for detecting genetic mutations and changes in cancer cells due to advancements in genomics. NGS is being used by researchers to predict patient responses to treatment, comprehend tumor heterogeneity, and identify new biomarkers for early cancer diagnosis. The growing demand for tailored cancer treatments is the driving force behind this movement, as NGS offers comprehensive genetic insights that support the creation of customized therapy regimens. As per industry reports, in 2024, Korea is expected to report 292,221 new cancer cases and 83,770 cancer-related deaths. With cancer being a leading cause of death in South Korea, the demand for NGS in oncology research is expected to continue its upward trajectory, further contributing to South

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Korea next generation sequencing market growth.

Rising Demand for Personalized Medicine

One of the main factors propelling the Next Generation Sequencing (NGS) market in South Korea is personalized medicine. Through the examination of individual genetic profiles made possible by NGS technology, doctors can better customize therapies based on genetic variants, increasing therapeutic efficacy and reducing side effects. NGS-based diagnostic techniques are in greater demand due to the growing emphasis on individualized treatment strategies, especially in oncology, rare disorders, and pharmacogenomics. The use of NGS for customized treatment in South Korea is also being accelerated by government programs and investments in medical technology. NGS is anticipated to play a crucial role in promoting personalized medicine as the healthcare industry shifts to more targeted therapies, which will greatly contribute to the growth of the next generation sequencing market in South Korea. For instance, in May 2025, Twist Bioscience and Element Biosciences expanded their collaboration to offer end-to-end sequencing workflows, from library prep to sequencing, using Element's AVITI platform. Twist will exclusively provide library prep and target enrichment workflows for Element’s Trinity sequencing technology. This partnership aims to improve access to high-quality, cost-effective next-generation sequencing tools for researchers, enhancing scientific discoveries across multiple fields.

SOUTH KOREA NEXT GENERATION SEQUENCING MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on sequencing type, product type, technology, application, and end user.

Sequencing Type Insights:

Whole Genome Sequencing

Targeted Resequencing

Whole Exome Sequencing

RNA Sequencing

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CHIP Sequencing

De Novo Sequencing

Methyl Sequencing

Others

The report has provided a detailed breakup and analysis of the market based on the sequencing type. This includes whole genome sequencing, targeted resequencing, whole exome sequencing, RNA sequencing, CHIP sequencing, de novo sequencing, methyl sequencing, and others.

Product Type Insights:

Instruments

Reagents and Consumables

Software and Services

A detailed breakup and analysis of the market based on the product type have also been provided in the report. This includes instruments, reagents and consumables, and software and services.

Technology Insights:

Sequencing by Synthesis

Ion Semiconductor Sequencing

Single-Molecule Real-Time Sequencing

Nanopore Sequencing

Others

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A detailed breakup and analysis of the market based on technology have also been provided in the report. This includes sequencing by synthesis, ion semiconductor sequencing, single-molecule real-time sequencing, nanopore sequencing, and others.

Application Insights:

- Biomarker and Cancer
- Drug Discovery and Personalized Medicine
- Genetic Screening
- Diagnostics
- Agriculture and Animal Research
- Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes biomarker and cancer, drug discovery and personalized medicine, genetic screening, diagnostics, agriculture and animal research, and others.

End User Insights:

- Academic Institutes and Research Centers
- Hospitals and Clinics
- Pharmaceutical and Biotechnology Companies
- Others

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes academic institutes and research centers, hospitals and clinics, pharmaceutical and biotechnology companies, and others.

Regional Insights:

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Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT
How has the South Korea next generation sequencing market performed so far and how will it perform in the coming years?
What is the breakup of the South Korea next generation sequencing market on the basis of sequencing type?
What is the breakup of the South Korea next generation sequencing market on the basis of product type?
What is the breakup of the South Korea next generation sequencing market on the basis of technology?
What is the breakup of the South Korea next generation sequencing market on the basis of application?
What is the breakup of the South Korea next generation sequencing market on the basis of end user?
What is the breakup of the South Korea next generation sequencing market on the basis of region?
What are the various stages in the value chain of the South Korea next generation

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sequencing market?
What are the key driving factors and challenges in the South Korea next generation sequencing market?
What is the structure of the South Korea next generation sequencing market and who are the key players?
What is the degree of competition in the South Korea next generation sequencing market?

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Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study
2.2 Stakeholders
2.3 Data Sources
  2.3.1 Primary Sources
  2.3.2 Secondary Sources
2.4 Market Estimation
  2.4.1 Bottom-Up Approach
  2.4.2 Top-Down Approach
2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - INTRODUCTION

4.1 Overview
4.2 Market Dynamics
4.3 Industry Trends
4.4 Competitive Intelligence

5 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET LANDSCAPE

5.1 Historical and Current Market Trends (2020-2025)
5.2 Market Forecast (2026-2034)

6 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - BREAKUP BY SEQUENCING TYPE

6.1 Whole Genome Sequencing
  6.1.1 Overview
  6.1.2 Historical and Current Market Trends (2020-2025)
  6.1.3 Market Forecast (2026-2034)
6.2 Targeted Resequencing
  6.2.1 Overview

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6.2.2 Historical and Current Market Trends (2020-2025)
6.2.3 Market Forecast (2026-2034)
6.3 Whole Exome Sequencing
6.3.1 Overview
6.3.2 Historical and Current Market Trends (2020-2025)
6.3.3 Market Forecast (2026-2034)
6.4 RNA Sequencing
6.4.1 Overview
6.4.2 Historical and Current Market Trends (2020-2025)
6.4.3 Market Forecast (2026-2034)
6.5 CHIP Sequencing
6.5.1 Overview
6.5.2 Historical and Current Market Trends (2020-2025)
6.5.3 Market Forecast (2026-2034)
6.6 De Novo Sequencing
6.6.1 Overview
6.6.2 Historical and Current Market Trends (2020-2025)
6.6.3 Market Forecast (2026-2034)
6.7 Methyl Sequencing
6.7.1 Overview
6.7.2 Historical and Current Market Trends (2020-2025)
6.7.3 Market Forecast (2026-2034)
6.8 Others
6.8.1 Historical and Current Market Trends (2020-2025)
6.8.2 Market Forecast (2026-2034)

7 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - BREAKUP BY PRODUCT TYPE

7.1 Instruments
7.1.1 Overview
7.1.2 Historical and Current Market Trends (2020-2025)
7.1.3 Market Forecast (2026-2034)
7.2 Reagents and Consumables
7.2.1 Overview
7.2.2 Historical and Current Market Trends (2020-2025)
7.2.3 Market Forecast (2026-2034)
7.3 Software and Services
7.3.1 Overview

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info@marketpublishers.com

7.3.2 Historical and Current Market Trends (2020-2025)
7.3.3 Market Forecast (2026-2034)

8 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - BREAKUP BY TECHNOLOGY

8.1 Sequencing by Synthesis
8.1.1 Overview
8.1.2 Historical and Current Market Trends (2020-2025)
8.1.3 Market Forecast (2026-2034)
8.2 Ion Semiconductor Sequencing
8.2.1 Overview
8.2.2 Historical and Current Market Trends (2020-2025)
8.2.3 Market Forecast (2026-2034)
8.3 Single-Molecule Real-Time Sequencing
8.3.1 Overview
8.3.2 Historical and Current Market Trends (2020-2025)
8.3.3 Market Forecast (2026-2034)
8.4 Nanopore Sequencing
8.4.1 Overview
8.4.2 Historical and Current Market Trends (2020-2025)
8.4.3 Market Forecast (2026-2034)
8.5 Others
8.5.1 Historical and Current Market Trends (2020-2025)
8.5.2 Market Forecast (2026-2034)

9 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - BREAKUP BY APPLICATION

9.1 Biomarker and Cancer
9.1.1 Overview
9.1.2 Historical and Current Market Trends (2020-2025)
9.1.3 Market Forecast (2026-2034)
9.2 Drug Discovery and Personalized Medicine
9.2.1 Overview
9.2.2 Historical and Current Market Trends (2020-2025)
9.2.3 Market Forecast (2026-2034)
9.3 Genetic Screening
9.3.1 Overview

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info@marketpublishers.com

9.3.2 Historical and Current Market Trends (2020-2025)
9.3.3 Market Forecast (2026-2034)
9.4 Diagnostics
9.4.1 Overview
9.4.2 Historical and Current Market Trends (2020-2025)
9.4.3 Market Forecast (2026-2034)
9.5 Agriculture and Animal Research
9.5.1 Overview
9.5.2 Historical and Current Market Trends (2020-2025)
9.5.3 Market Forecast (2026-2034)
9.6 Others
9.6.1 Historical and Current Market Trends (2020-2025)
9.6.2 Market Forecast (2026-2034)

10 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - BREAKUP BY END USER

10.1 Academic Institutes and Research Centers
10.1.1 Overview
10.1.2 Historical and Current Market Trends (2020-2025)
10.1.3 Market Forecast (2026-2034)
10.2 Hospitals and Clinics
10.2.1 Overview
10.2.2 Historical and Current Market Trends (2020-2025)
10.2.3 Market Forecast (2026-2034)
10.3 Pharmaceutical and Biotechnology Companies
10.3.1 Overview
10.3.2 Historical and Current Market Trends (2020-2025)
10.3.3 Market Forecast (2026-2034)
10.4 Others
10.4.1 Historical and Current Market Trends (2020-2025)
10.4.2 Market Forecast (2026-2034)

11 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET – BREAKUP BY REGION

11.1 Seoul Capital Area
11.1.1 Overview
11.1.2 Historical and Current Market Trends (2020-2025)

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11.1.3 Market Breakup by Sequencing Type
11.1.4 Market Breakup by Product Type
11.1.5 Market Breakup by Technology
11.1.6 Market Breakup by Application
11.1.7 Market Breakup by End User
11.1.8 Key Players
11.1.9 Market Forecast (2026-2034)
11.2 Yeongnam (Southeastern Region)
11.2.1 Overview
11.2.2 Historical and Current Market Trends (2020-2025)
11.2.3 Market Breakup by Sequencing Type
11.2.4 Market Breakup by Product Type
11.2.5 Market Breakup by Technology
11.2.6 Market Breakup by Application
11.2.7 Market Breakup by End User
11.2.8 Key Players
11.2.9 Market Forecast (2026-2034)
11.3 Honam (Southwestern Region)
11.3.1 Overview
11.3.2 Historical and Current Market Trends (2020-2025)
11.3.3 Market Breakup by Sequencing Type
11.3.4 Market Breakup by Product Type
11.3.5 Market Breakup by Technology
11.3.6 Market Breakup by Application
11.3.7 Market Breakup by End User
11.3.8 Key Players
11.3.9 Market Forecast (2026-2034)
11.4 Hoseo (Central Region)
11.4.1 Overview
11.4.2 Historical and Current Market Trends (2020-2025)
11.4.3 Market Breakup by Sequencing Type
11.4.4 Market Breakup by Product Type
11.4.5 Market Breakup by Technology
11.4.6 Market Breakup by Application
11.4.7 Market Breakup by End User
11.4.8 Key Players
11.4.9 Market Forecast (2026-2034)
11.5 Others
11.5.1 Historical and Current Market Trends (2020-2025)

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11.5.2 Market Forecast (2026-2034)

12 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET – COMPETITIVE LANDSCAPE

12.1 Overview
12.2 Market Structure
12.3 Market Player Positioning
12.4 Top Winning Strategies
12.5 Competitive Dashboard
12.6 Company Evaluation Quadrant

13 PROFILES OF KEY PLAYERS

13.1 Company A
  13.1.1 Business Overview
  13.1.2 Products Offered
  13.1.3 Business Strategies
  13.1.4 SWOT Analysis
  13.1.5 Major News and Events
13.2 Company B
  13.2.1 Business Overview
  13.2.2 Products Offered
  13.2.3 Business Strategies
  13.2.4 SWOT Analysis
  13.2.5 Major News and Events
13.3 Company C
  13.3.1 Business Overview
  13.3.2 Products Offered
  13.3.3 Business Strategies
  13.3.4 SWOT Analysis
  13.3.5 Major News and Events
13.4 Company D
  13.4.1 Business Overview
  13.4.2 Products Offered
  13.4.3 Business Strategies
  13.4.4 SWOT Analysis
  13.4.5 Major News and Events
13.5 Company E

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13.5.1 Business Overview
13.5.2 Products Offered
13.5.3 Business Strategies
13.5.4 SWOT Analysis
13.5.5 Major News and Events

14 SOUTH KOREA NEXT GENERATION SEQUENCING MARKET - INDUSTRY ANALYSIS

14.1 Drivers, Restraints, and Opportunities
14.1.1 Overview
14.1.2 Drivers
14.1.3 Restraints
14.1.4 Opportunities
14.2 Porters Five Forces Analysis
14.2.1 Overview
14.2.2 Bargaining Power of Buyers
14.2.3 Bargaining Power of Suppliers
14.2.4 Degree of Competition
14.2.5 Threat of New Entrants
14.2.6 Threat of Substitutes
14.3 Value Chain Analysis

15 APPENDIX

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