

Global Single-cell Sequencing Systems Market Growth 2026-2032

<https://marketpublishers.com/r/G108BA5D4F4BEN.html>

Date: July 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: G108BA5D4F4BEN

Abstracts

The global Single-cell Sequencing Systems market size is predicted to grow from US\$ 880 million in 2025 to US\$ 2299 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

In 2025, the global production of single-cell sequencing systems reached approximately 1,200 units. A single-cell sequencing system is a high-throughput, precise biological analysis instrument capable of sequencing the genome, transcriptome, or epigenome at the individual cell level, enabling accurate analysis of cellular heterogeneity, rare cell populations, and dynamic biological processes. The system typically integrates microfluidic chip technology, high-sensitivity capture modules, automated liquid handling platforms, and high-throughput sequencing interfaces, allowing the isolation, lysis, and amplification of single cells for simultaneous sequencing of thousands to tens of thousands of cells. Single-cell sequencing systems are widely applied in basic life sciences research, tumor immune microenvironment analysis, stem cell studies, neuroscience, early disease diagnostics, and drug development, providing a critical tool for uncovering cellular functional diversity and complex biological networks. Additionally, the systems are equipped with data analysis software that performs data cleaning, noise reduction, gene expression quantification, and clustering, generating high-precision, reproducible single-cell data to support both research and clinical translation, thereby advancing precision medicine and personalized therapies.

Single-cell sequencing systems belong to the high-end life science instrument segment of biomedicine and in vitro diagnosis industries and represent a rapidly developing core track in the biotechnology field. Compared with traditional bulk sequencing technology, they can accurately capture cellular heterogeneity and make up for the low resolution defects of conventional sequencing equipment, being widely applied in tumor

mechanism research, new drug development, immunotherapy, reproductive health and other precision medical scenarios. With the continuous increasing investment in global precision medicine and basic life science research, scientific research institutions and biopharmaceutical enterprises have growing demand for high-precision sequencing devices. Meanwhile, policies worldwide accelerate the domestic substitution of high-end medical devices to break the monopoly of overseas manufacturers. Currently, the global single-cell sequencing system market is still dominated by foreign leading enterprises, while domestic companies are narrowing the technical gap through continuous technological breakthroughs and expanding market shares relying on cost performance and localized services. In general, single-cell sequencing systems feature high technical barriers, diverse downstream applications and strong market demand with great scientific research and commercial value. Driven by declining sequencing costs, improved equipment automation and integration, and expanding clinical commercial scenarios, the industry will maintain rapid growth, with independent localization, integration and intellectualization as its core long-term development trends.

LP Information, Inc. (LPI) ' newest research report, the "Single-cell Sequencing Systems Industry Forecast" looks at past sales and reviews total world Single-cell Sequencing Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Single-cell Sequencing Systems sales for 2026 through 2032. With Single-cell Sequencing Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-cell Sequencing Systems industry.

This Insight Report provides a comprehensive analysis of the global Single-cell Sequencing Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Single-cell Sequencing Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-cell Sequencing Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-cell Sequencing Systems and breaks down the forecast by Technical Principle, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Single-cell

Sequencing Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-cell Sequencing Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Technical Principle:

- Droplet-based microfluidics systems

- Microwell-based systems

- Plate-based systems

- Combinatorial indexing systems

- Others

Segmentation by Detection Target / Analyte:

- Single-cell transcriptome sequencing system

- Single-cell genome sequencing system

- Single-cell epigenomics system

- Single-cell multi-omics system

- Spatial transcriptomics system

- Others

Segmentation by Cellular Throughput:

- Low throughput (40,000 cells/run)

- Others

Segmentation by Application:

Precision medicine / Clinical diagnostics

Drug discovery and development

Basic biology research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BEIJING BESTOPCELL CO., LTD.

Lead Healthcare Technology (Guangzhou) Co., Ltd.

SUZHOU DYNAMIC BIOSCIENCES CO., LTD.

10x Genomics

Becton, Dickinson and Company

Illumina

MGI Tech Co., Ltd.

Singleron Biotechnologies Co., Ltd.

M20 Genomics

Sartorius

bitBiome Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-cell Sequencing Systems market?

What factors are driving Single-cell Sequencing Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Single-cell Sequencing Systems market opportunities vary by end market size?

How does Single-cell Sequencing Systems break out by Technical Principle, by Application?

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