

Single Cell Sequencing Market by Product (Reagents & Kits, Platforms, Software), Workflow (Presequencing), Service (Sample Preparation, Bioinformatics), Sequencing (scRNA, scDNA), Application (Research, Diagnostic), End User - Global Forecast to 2030

<https://marketpublishers.com/r/S750006CA8F5EN.html>

Date: August 2025

Pages: 622

Price: US\$ 4,950.00 (Single User License)

ID: S750006CA8F5EN

Abstracts

The single-cell sequencing market is expected to reach USD 3.46 billion in 2030 from USD 1.95 billion in 2025, at a CAGR of 12.2% during the forecast period. The growth of this market can be attributed to ongoing technological advancements in single-cell sequencing technologies, which are becoming more accurate, scalable, and efficient. For instance, in July 2025, researchers from the Huazhong University of Science and Technology developed the Toti-N-Seq platform to overcome challenges in sample multiplexing and rare cell detection by using a special glycan-binding protein to label all types of cells and nuclei. At the same time, well-established systems like 10x Genomics' Chromium remain essential for extensive studies due to their reliability, high throughput, and broad adoption.

“By type, the sequencing instruments segment is expected to register the highest growth rate during the forecast period.”

By type, the single-cell sequencing products market is segmented into consumables, instruments, and software. The instruments segment is further segmented into pre-sequencing and sequencing instruments. The sequencing instruments segment registered the highest CAGR during the forecast period. This growth is primarily driven by the emergence of new sequencing technology providers, such as Pacific Biosciences (PacBio), Oxford Nanopore Technologies, Element Biosciences, and Ultima Genomics,

that have introduced platforms compatible with various single-cell sequencing workflows. Additionally, sequencing instruments remain the core technological driver of single-cell sequencing, performing the essential function of decoding nucleic acids at single-cell resolution. As applications of single-cell sequencing expand into areas like oncology, immunology, neuroscience, and microbiome studies, there is a corresponding rise in demand for sequencing instruments capable of handling increasingly complex, large-scale datasets.

“By service type, the sequencing services segment accounted for the largest share of the market in 2024.”

Based on service type, the single-cell sequencing market is pre-sequencing services, sequencing services, and data analysis & bioinformatic services. In 2024, the sequencing services segment held the largest share of the single-cell sequencing market by service type. The large share of this service segment can be attributed to the high cost and operational complexity of sequencing instruments. The growing demand for clinical-grade sequencing, higher throughput, and standardized data output has also driven the expansion of professional sequencing services, reinforcing their leading position in the market. Moreover, with the rising adoption of single-cell technologies in translational research and clinical studies, sequencing services offer a scalable and compliant solution for handling large sample volumes.

“The Asia Pacific region is expected to grow at the highest CAGR in the single-cell sequencing market during the forecast period.”

The market is segmented by region into North America, Europe, the Asia Pacific, Latin America, the Middle East, and Africa. The Asia Pacific region is projected to register the highest CAGR in the single-cell sequencing market during the forecast period. The key factors driving the market growth include expanding biomedical research infrastructure, rising government funding, and increasing adoption of single-cell technologies in clinical and academic settings. Countries like China, Japan, and South Korea actively invest in genomics through national initiatives and grants. At the same time, companies such as Singleron Biotechnologies and Macrogen make the technology more accessible across research and diagnostic markets. The region's large and genetically diverse populations offer vast opportunities for disease-specific single-cell studies, particularly in oncology and infectious diseases. Additionally, lower operational costs and growing outsourcing of sequencing services to Asia-based CROs further accelerate regional growth, making the Asia Pacific a key engine of expansion for the global single-cell sequencing market.

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

By Company Type: Tier 1- 44%, Tier 2- 32%, and Tier 3- 24%

By Designation: (Managers)- 45%, (CXOs, Directors)- 30%, and (Executives)- 25%

By Region: North America- 40%, Europe- 25%, Asia Pacific- 20%, and the Rest of the World- 15%

10x Genomics (US), Illumina Inc. (US), BD (US), Merck KGaA (Germany), Thermo Fisher Scientific Inc. (US), QIAGEN (Netherlands), Bio-Techne (US), and PacBio (US) are some of the key players in the single-cell sequencing market.

The study includes an in-depth competitive analysis of these key players in the single-cell sequencing market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

This research report categorizes the single cell sequencing market by offering (products, services), by product type (consumables [pre-sequencing, sequencing], instruments [pre-sequencing instruments {microfluidics, PCR, LCM, FACs, others}, sequencing platforms], software), by product workflow (pre-sequencing, sequencing, software), by product end user (hospitals & diagnostic laboratories, academic & research institutes, pharmaceutical & biotechnology companies, contract research organizations), by service type (pre-sequencing services [sample preparation, library preparation], sequencing services, bioinformatics services), by service end users (hospitals & diagnostic laboratories, academic & research institutes, pharmaceutical & biotechnology companies), by sequencing type (single cell transcriptome sequencing, single cell genome sequencing, single cell ATAC sequencing, others), by application (research application [basic & translation research {cancer research, stem cell & developmental biology, neurology & brain research, microbiology & infectious disease, organ development & regenerative medicine}, drug discovery & development], diagnostic & clinical application), by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa).

The report provides in-depth information on significant factors influencing the growth of the single-cell sequencing market, including drivers, trends, challenges, and opportunities. A thorough analysis of major industry players has been undertaken to provide insights into their business profiles, products/services, key strategies, collaborations, partnerships, and agreements. Additionally, the report encompasses recent developments such as new product launches and acquisitions within the single-cell sequencing market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing the closest approximations of the revenue numbers for the overall single-cell sequencing market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to position their business better 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 into the following pointers:

Analysis of key drivers (Advancements in Single-Cell sequencing technologies, Growing Demand for Personalized Medicine and Biomarker Discovery, Integration of AI and ML in data analysis, Advantages over bulk sequencing), restraints (High cost of single cell sequencing and analysis products), opportunities (Development of Sequencing by Expansion (SBX) technology, Growing clinical applications), and challenges (Data Complexities and Analysis Bottleneck) influencing the growth of the market.

Product Development/Innovation: Detailed insights on newly launched products/services of the single-cell sequencing 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 single-cell sequencing market

Competitive Assessment: In-depth assessment of market share, growth

strategies and service offerings of leading players like 10x Genomics (US), Illumina Inc. (US), BD (US), Danaher (US), Thermo Fisher Scientific Inc. (US), Qiagen (Netherlands), and Pacbio (US) among others, in the single-cell sequencing market.

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