

Global Single Cell Genomics and Proteomics Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Single Cell Genomics and Proteomics market size is predicted to grow from US\$ 221 million in 2025 to US\$ 321 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

Single-cell genomics and proteomics are cutting-edge technologies for elucidating molecular mechanisms at single-cell resolution. Single-cell genomics amplifies and sequences the entire genome or targeted regions of a single cell, revealing DNA sequence variations, copy number changes, and lineage relationships. It is primarily used to study tumor heterogeneity and mutation accumulation during development. Single-cell proteomics, on the other hand, focuses on identifying and quantifying thousands of proteins within a single cell, directly reflecting the cell's functional state through ultra-sensitive mass spectrometry or novel affinity reagent technologies. The two complement each other: genomics reveals 'what might happen,' while proteomics reveals 'what is happening,' jointly advancing the precise understanding of cellular heterogeneity and functional status.

The global development of Single Cell Genomics and Proteomics presents a competitive landscape led by the US and Europe, with the Asia-Pacific region catching up. The US, leveraging its top institutions and instrument companies, dominates single-cell genomics sequencing platforms and high-throughput screening technologies, continuously pushing the limits of throughput and multimodal data fusion. Europe, relying on its strong tradition in proteomics and mass spectrometry, possesses unique advantages in micro-sample preparation, post-translational modification detection, and standardized algorithms for single-cell proteomics. The Asia-Pacific region, with China at its core, focuses on clinical translation and large-scale population cohorts. Through cost-effective domestic platforms and vast sample resources, it is rapidly producing

landmark results in tumor heterogeneity and developmental atlases, moving from technology users to rule-makers.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single Cell Genomics and Proteomics and breaks down the forecast by Type, 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 Genomics and Proteomics.

This report presents a comprehensive overview, market shares, and growth opportunities of Single Cell Genomics and Proteomics market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cell Isolation

Sample Preparation

Genomic Analysis

Segmentation by Scenarios:

- Tumor Research
- Developmental Biology
- Neuroscience
- Clinical Diagnostics
- Others

Segmentation by Technology:

- Sequencing/Amplification-Based Technology
- Mass Spectrometry-Based Technology

Segmentation by Application:

- Genomic Variation
- Subpopulation Characterization
- Circulating Tumor Cells
- Cell Differentiation
- 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 analyzing the company's coverage, product portfolio, its market penetration.

10x Genomics, Inc.

Standard BioTools Inc

QIAGEN GmbH

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc.

Exact Sciences Corporation

Accelerate Diagnostics, Inc.

Bio-Rad Laboratories, Inc.

Epic Sciences, Inc.

Yikon Genomics Co., Ltd.

Takara Bio Inc.

1CellBio, Inc.

Bio-Techne Corporation

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