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Global Single Cell Genomics and Proteomics Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G8416F8DD128EN.html
Date: April 2026
Pages: 117
Price: US$ 4,480.00 (Single User License)
ID: G8416F8DD128EN

Abstracts

The global Single Cell Genomics and Proteomics market size is expected to reach $ 332 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

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

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

This report studies the global Single Cell Genomics and Proteomics demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Cell Genomics and Proteomics, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single Cell Genomics and Proteomics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Cell Genomics and Proteomics total market, 2021-2032, (USD Million)

Global Single Cell Genomics and Proteomics total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Single Cell Genomics and Proteomics total market, key domestic companies, and share, (USD Million)

Global Single Cell Genomics and Proteomics revenue by player, revenue and market share 2021-2026, (USD Million)

Global Single Cell Genomics and Proteomics total market by Type, CAGR, 2021-2032, (USD Million)

Global Single Cell Genomics and Proteomics total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Single Cell Genomics and Proteomics market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

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This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Single Cell Genomics and Proteomics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Single Cell Genomics and Proteomics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Cell Genomics and Proteomics Market, Segmentation by Type:

Cell Isolation

Sample Preparation

Genomic Analysis

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Global Single Cell Genomics and Proteomics Market, Segmentation by Scenarios:

Tumor Research

Developmental Biology

Neuroscience

Clinical Diagnostics

Others

Global Single Cell Genomics and Proteomics Market, Segmentation by Technology:

Sequencing/Amplification-Based Technology

Mass Spectrometry-Based Technology

Global Single Cell Genomics and Proteomics Market, Segmentation by Application:

Genomic Variation

Subpopulation Characterization

Circulating Tumor Cells

Cell Differentiation

Others

Companies Profiled:

10x Genomics, Inc.

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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

Key Questions Answered

1. How big is the global Single Cell Genomics and Proteomics market?
2. What is the demand of the global Single Cell Genomics and Proteomics market?
3. What is the year over year growth of the global Single Cell Genomics and Proteomics market?
4. What is the total value of the global Single Cell Genomics and Proteomics market?
5. Who are the Major Players in the global Single Cell Genomics and Proteomics market?
6. What are the growth factors driving the market demand?

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