

US Spatial Genomics and Transcriptomics Market to Reach USD 360.96 Mn by 2034, Growing at 12.7% CAGR Amid Rising Demand

The surging drug detection and advancement endeavors in the US drive the US spatial genomics & transcriptomics market.

NEW YORK CITY, NY, UNITED STATES, December 12, 2024 /EINPresswire.com/ -- The [US spatial genomics & transcriptomics market](#) report assesses the competitive scenario of the market, examining all the established players and new market entrants.



The perspective permits researchers to envision and measure gene venture in situ, improving the comprehension of tissue heterogeneity and cellular interactions."

Polaris Market Research

The market for US spatial genomics & transcriptomics is on a growth trajectory. The market, valued at USD 109.51 million in 2024, is poised to reach USD 360.96 million by 2034. It is anticipated to register a CAGR of 12.7% from 2025 to 2034.

□□□□□□ □□□□□□□□□□□□□□□□:

The genomic DNA in a eukaryotic cell is excessively crimped and categorized into chromatin frameworks positioned within the cell nucleus. Albeit all cells in an organism nurture a similar genome, there prevails an enormous amount of cellular variety with varied operations and morphologies.

□□□□□□□□ □□□□ □□□□□□ □□□ □□□□ □□ □□□ □□□□□□□□:

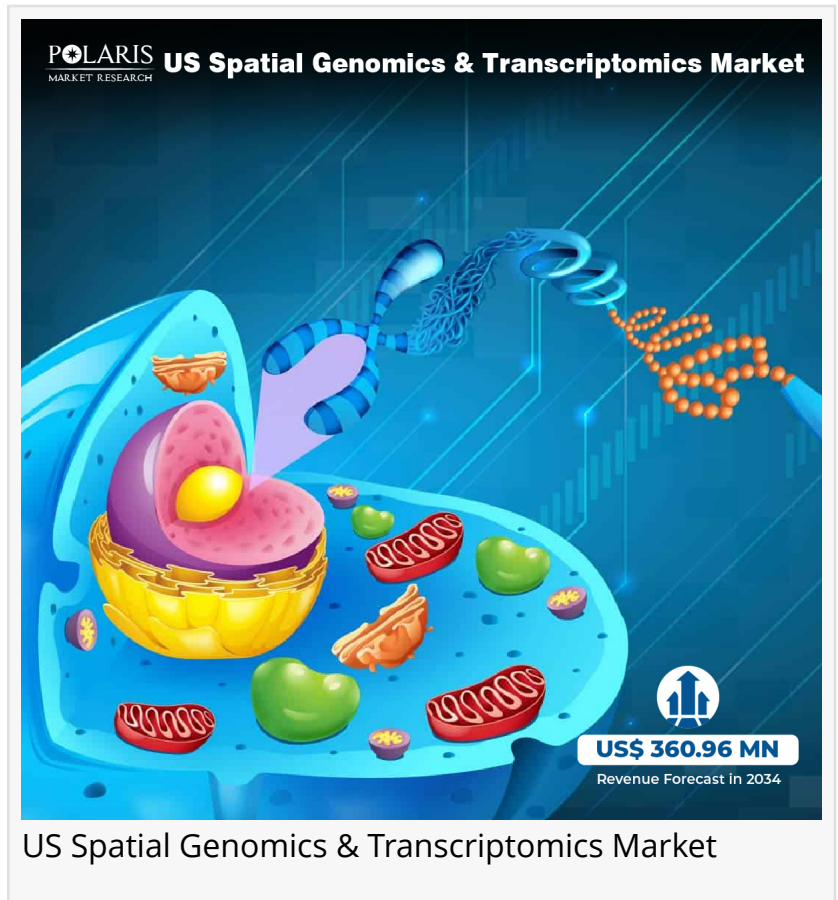
https://www.polarismarketresearch.com/industry-analysis/us-spatial-genomics-and-transcriptomics-market/request-for-sample?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01

Spatial transcriptomics procedures can assist confine and estimating genome-wide readouts in the configuration of mRNA transcripts at elevated clarifications within complete tissue while sustaining situating details of the transcript. Spatial transcriptomics amalgamates conventional transcriptomic analysis with spatial details sanctioning the description of gene formulation at a solitary cell resolution, impacting the US spatial genomics & transcriptomics market demand

favorably.

□□□ □□□□□□ □□□□□□□□□□:

- The US spatial genomics & transcriptomics market size was valued at USD 109.51 million in 2024 and is projected to grow to USD 360.96 million by 2034.
- Spatial transcriptomics is important for researching the tumor microenvironment where cellular interplay fuels the need for spatial genomics & transcriptomics in the US.
- The market segmentation is primarily based on product, technology, and end-use.



□□□□□□□□□□ □□□□□□□□□□:

The US spatial genomics & transcriptomics market is characterized by competitiveness.

- 10X Genomics
- Akoya Biosciences, Inc.
- Bio-Rad Laboratories
- Bio-Techne Corporation
- BioSpyder Technologies Inc.
- Danaher Corporation
- Genomic Vision SA
- Illumina
- Lunaphore Technologies SA
- Miltenyi Biotec
- NanoString Technologies, Inc.
- Natera, Inc.
- Optical Biosystems Inc.

are some of the leading market contenders. The aggressive topography of the market is portrayed by an assorted array of global and regional contenders struggling to seize market share through invention, tactical alliances, and geographic augmentation.

□□□□ □□□ □□□□ □□ □□□ □□□□□ □□□□□□□□□□□□□□□□:

- In May 2023, the NIH instigated a contemporary program, the Common Fund's Somatic Mosaicism Across Human Tissues (SMaHT) Network, that targets transfigure comprehension of how much genetic disparity there is in cells and tissues in the body.

- In September 2022, Vizgen MERSCOPE instigated a protein co-detection supply that permits users to collate the full benefit of the subcellular hi-plex nature of the apparatus while locating up to five proteins.

□□□□□□ □□ □ □□□□□□□ □□ □□□□ □□□□□□ □□□□□□□□:

https://www.polarismarketresearch.com/industry-analysis/us-spatial-genomics-and-transcriptomics-market/request-for-discount-pricing?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01

□□□□□□ □□□□□□□ □□ □□□□□□□□□□□□:

□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□: Spatial genomics plays an important part in progressing customized medicines by offering a complete perspective into how gene formulation differs, covering varied regions of tissues fueling the US spatial genomics & transcriptomics market growth. This technology is important in recognizing illness's particular motifs, pushing the path for more earmarked and customized medicine.

□□□□□□□ □□□□□□□□□□□□ □□□□□□□□□□□□: Growing technological progressions in high clarity imaging and sequencing have entirely improved the capacity to analyse gene formulation within tissue specimens which offers thorough spatially intended monitoring of how genes are formulated covering varied regions of tissues.

□□□□□□□ □□□□□□□□□ □□□□□□□□: Growing financial reinforcement from government bodies and private firms is playing an important part in speeding and advancement of spatial genomics and transcriptomics technologies. Government funding, frequently offered through appreciation from bodies such as the National Institutes of Health (NIH) and the National Science Foundation (NSF), reinforces research projects that traverse contemporary procedures and applications in spatial genomics.

□□□□□□□ □□□□ □□□□□ □□□□ □□□□□□ □□□□□□□ □□□□□□□□:

https://www.polarismarketresearch.com/industry-analysis/us-spatial-genomics-and-transcriptomics-market/inquire-before-buying?utm_source=EIN&utm_medium=EIN&utm_campaign=EIN&utm_id=01

□□□□□□□□□ □□□□□□□□□

□□ □□□□□□□ □□□□□□□□

- Instruments

- o By Mode

- Automated

- Semi-automated
- Manual
- By Type
- Sequencing Platforms
- IHC
- Microscopy
- Flow Cytometry
- Mass Spectrometry
- Others
 - Consumables
 - Software
- Bioinformatics Tools
- Imaging Tools
- Storage and Management Databases

□□ □□□□□□□□ □□□□□□

- Spatial Transcriptomics
 - Sequencing-Based Methods
 - Laser Capture Microdissection (LCM)
 - FFPE Tissue Samples
 - Others
 - Transcriptome In-Vivo Analysis (TIVA)
 - In Situ Sequencing
 - Microtomy Sequencing
 - IHC
 - Microscopy-based RNA Imaging Techniques
 - Single Molecule RNA Fluorescence In-Situ Hybridization (smFISH)
 - Padlock Probes/ Rolling Circle Amplification
 - Branched DNA Probes
 - Spatial Genomics
 - FISH
 - Microscopy-based Live DNA Imaging
 - Genome Perturbation Tools
 - Massively-Parallel Sequencing
 - Biochemical Techniques
 - Others

□□ □□□ □□□ □□□□□□

- Translational Research
- Academic Customers
- Diagnostic Customers
- Pharmaceutical Manufacturer

Polymers, Nanomaterials, and Biomaterials Market: <https://www.polarismarketresearch.com/industry-analysis/polymers-nanomaterials-and-biomaterials-market>

[US Spatial Genomics and Transcriptomics Industry](https://www.polarismarketresearch.com/industry-analysis/us-spatial-genomics-and-transcriptomics-industry) Key Trends, Technological Advancements, and Future Growth Insights

Polymers, Nanomaterials, and Biomaterials Market:

Targeted Protein Degradation Market:

<https://www.polarismarketresearch.com/industry-analysis/targeted-protein-degradation-market>

DNA Diagnostics Market:

<https://www.polarismarketresearch.com/industry-analysis/dna-diagnostics-market>

Cell Processing Instruments Market:

<https://www.polarismarketresearch.com/industry-analysis/cell-processing-instruments-market>

Spatial Proteomics Market:

<https://www.polarismarketresearch.com/industry-analysis/spatial-proteomics-market>

High Throughput Screening Market:

<https://www.polarismarketresearch.com/industry-analysis/high-throughput-screening-market>

Polymers, Nanomaterials, and Biomaterials Market & Polymers, Nanomaterials, and Biomaterials Market:

Polaris Market Research is a global market research and consulting company. The company specializes in providing exceptional market intelligence and in-depth business research services for PMR's clientele spread across different enterprises. We at Polaris are obliged to serve PMR's diverse customer base present across the industries of healthcare, technology, semiconductors, and chemicals among various other industries present around the world. We strive to provide PMR's customers with updated information on innovative technologies, high-growth markets, emerging business environments, and the latest business-centric applications, thereby helping them always to make informed decisions and leverage new opportunities. Adept with a highly competent, experienced, and extremely qualified team of experts comprising SMEs, analysts, and consultants, we at Polaris endeavor to deliver value-added business solutions to PMR's customers.

Likhil G

Polaris Market Research and Consulting

+1 929-297-9727

sales@polarismarketresearch.com

Visit us on social media:

[Facebook](#)

[X](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/768473178>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.