

Blockchain In Genomics Market Outlook 2025-2034: Market Share, and Growth Analysis By Service (Utility Tokens, Blockchain Platforms), By Business Model (Business-To-Business (B2B) Business Model, Business To Consumer (B2C) Business Model, Consumer-to-Business (C2B) Business Model), By Application

<https://marketpublishers.com/r/BA927586657BEN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: BA927586657BEN

Abstracts

The Blockchain In Genomics Market is valued at USD 975.7 million in 2025 and is projected to grow at a CAGR of 19% to reach USD 4658.6 million by 2034. The Blockchain in Genomics Market is growing as researchers and healthcare organizations explore blockchain technology's potential to revolutionize genomic data management. Blockchain provides a secure, transparent, and decentralized framework for storing and sharing sensitive genetic information, allowing individuals to maintain control over their data while facilitating research and personalized medicine. This technology addresses critical challenges in genomic data handling, including data security, patient consent management, and reliable data provenance. Key drivers include the increasing demand for personalized medicine, the rising volume of genomic data being generated, and the need to protect patient privacy. Blockchain enables patients to control who accesses their genetic information and under what conditions, ensuring ethical data use and compliance with regulatory requirements. Additionally, the integration of blockchain with artificial intelligence and machine learning accelerates genomic analysis, fostering faster insights and advancements in drug development and disease prevention. Challenges in the market include high costs of implementation, scalability concerns, and a lack of standardized frameworks. Despite these hurdles, ongoing innovation, growing adoption of blockchain-based consent mechanisms, and supportive regulatory developments are expected to drive further growth in the Blockchain in Genomics

Market.

Key Insights Blockchain In Genomics Market

1. Increasing use of blockchain to enable secure data sharing among genomic research institutions. 2. Development of blockchain-based genomic marketplaces where individuals can monetize their genetic data. 3. Growing adoption of decentralized applications (dApps) for genetic data storage and analysis. 4. Expansion of partnerships between blockchain companies and genomics research organizations. 5. Integration of blockchain with other emerging technologies, such as AI and IoT, for advanced genomic data analytics. 1. Rising demand for personalized medicine and targeted therapies. 2. Increasing volume of genomic data being generated and the need for secure storage solutions. 3. Growing awareness of data privacy issues and patient rights. 4. Advancements in blockchain technology improving scalability and interoperability. 1. High implementation costs and technical complexity. 2. Scalability and performance limitations of current blockchain networks. 3. Lack of standardized protocols for genomic data on blockchain platforms. 4. Limited awareness and understanding of blockchain applications in the genomics field.

Blockchain In Genomics Market Segmentation

By Service

Utility Tokens

Blockchain Platforms

By Business Model

Business-To-Business (B2B) Business Model

Business To Consumer (B2C) Business Model

Consumer-to-Business (C2B) Business Model

By Application

Automated Health Insurance

Pharmaceutical And Biotechnology Companies

Hospitals And Healthcare Providers

Research Institutes

Data Owners

Other End Users

Key Companies Analysed

International Business Machines Corporation

Sharecare Inc.

WuXi Nextcode Genomics Inc.

Health Utility Network Inc.

Chronicled Inc.

Medicalchain Ltd.

Akiri Inc.

Futura Genetics LLC

Nebula Genomics Inc.

Medicalchain SA

Digital DNAtix Ltd.

EncrypGen Inc.

Longenesis

Guardtime AS

ProCredEx LLC

Embleema Inc.

Patientory Inc.

Shivom Ventures Limited

BurstIQ LLC

Genobank.io Inc.

LunaDNA LLC

SimplyVital Health Inc.

Zenome.io Ltd.

Coral Health Research & Discovery Inc.

FarmaTrust Holdings Limited

Blockchain In Genomics Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Blockchain In Genomics Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Blockchain In Genomics market data and outlook to 2034

United States

Canada

Mexico

Europe — Blockchain In Genomics market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Blockchain In Genomics market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Blockchain In Genomics market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Blockchain In Genomics market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Blockchain In Genomics value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Blockchain In Genomics industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Blockchain In Genomics Market Report

Global Blockchain In Genomics market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Blockchain In Genomics trade, costs, and supply chains

Blockchain In Genomics market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Blockchain In Genomics market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Blockchain In Genomics market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Blockchain In Genomics supply chain analysis

Blockchain In Genomics trade analysis, Blockchain In Genomics market price analysis, and Blockchain In Genomics supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Blockchain In Genomics market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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