

Global Agrigenomics Market Size Study, by Application (Crop, Livestock), Sequencer (Sanger Sequencing, Illumina Hi Seq Family, PacBio Sequencing), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G492F2283A7EEN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G492F2283A7EEN

Abstracts

The global agrigenomics market, valued at approximately USD 3.61 billion in 2023, is poised to grow significantly at a compound annual growth rate (CAGR) of 9.50%, reaching an estimated USD 8.17 billion by 2032. Agrigenomics, a rapidly evolving field, integrates genomics technologies into agriculture to optimize crop and livestock production. These solutions offer unparalleled potential to enhance productivity, resilience, and sustainability, meeting the challenges posed by climate change, population growth, and food security.

The exponential rise in demand for precision farming and sustainable agricultural practices is driving market growth. Innovations such as high-throughput sequencing technologies enable comprehensive genetic analyses, empowering stakeholders to improve traits like disease resistance, yield, and nutritional value. Sequencers like Illumina Hi Seq Family and PacBio are revolutionizing agricultural research by enabling the mapping of complex genomes. Additionally, growing investments in agrigenomic projects by governments and private players worldwide underscore the market's robust trajectory. However, high costs associated with sequencing and data management complexities remain key challenges.

Regionally, North America dominates the agrigenomics market, owing to advanced R&D infrastructure and the presence of major genomics players. Europe closely follows, driven by stringent regulatory frameworks promoting sustainable agriculture. Meanwhile, the Asia-Pacific region is anticipated to exhibit the fastest growth during the forecast period, bolstered by increasing agricultural investments and the adoption of advanced

technologies in countries like China and India.

Major market players included in this report are:

Thermo Fisher Scientific, Inc.

Illumina, Inc.

Agilent Technologies, Inc.

Eurofins Scientific

Pacific Biosciences of California, Inc.

LGC Limited

Neogen Corporation

Qiagen N.V.

Danaher Corporation

KeyGene N.V.

BGI Group

PerkinElmer, Inc.

Novogene Corporation

NRGene

Biomatters Limited

The detailed segments and sub-segment of the market are explained below:

By Application:

Crop

Livestock

By Sequencer:

Sanger Sequencing

Illumina Hi Seq Family

PacBio Sequencing

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market estimates and forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level insights.

Competitive landscape and strategies of major players.

Exploration of market drivers, challenges, and opportunities.

Strategic recommendations for stakeholders to maximize returns and capitalize on market trends.

Contents

CHAPTER 1. GLOBAL AGRIGENOMICS MARKET EXECUTIVE SUMMARY

- 1.1. Global Agrigenomics Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Application
 - 1.3.2. By Sequencer
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AGRIGENOMICS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AGRIGENOMICS MARKET DYNAMICS

- 3.1. Market Drivers

- 3.1.1. Rising Demand for Precision Farming
- 3.1.2. Technological Advancements in Sequencing Technologies
- 3.1.3. Increasing Investments in Agrigenomic Research
- 3.2. Market Challenges
 - 3.2.1. High Sequencing Costs
 - 3.2.2. Data Management Complexities
- 3.3. Market Opportunities
 - 3.3.1. Expansion into Emerging Markets
 - 3.3.2. Development of Advanced Sequencing Platforms
 - 3.3.3. Integration with Smart Agriculture Solutions

CHAPTER 4. GLOBAL AGRIGENOMICS MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AGRIGENOMICS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Agrigenomics Market: Application Revenue Trend Analysis, 2022 & 2032

(USD Billion)

5.2.1. Crop

5.2.2. Livestock

CHAPTER 6. GLOBAL AGRIGENOMICS MARKET SIZE & FORECASTS BY SEQUENCER 2022-2032

6.1. Segment Dashboard

6.2. Global Agrigenomics Market: Sequencer Revenue Trend Analysis, 2022 & 2032

(USD Billion)

6.2.1. Sanger Sequencing

6.2.2. Illumina Hi Seq Family

6.2.3. PacBio Sequencing

CHAPTER 7. GLOBAL AGRIGENOMICS MARKET SIZE & FORECASTS BY REGION 2022-2032

7.1. North America Agrigenomics Market

7.1.1. U.S. Agrigenomics Market

7.1.1.1. Application Breakdown Size & Forecasts, 2022-2032

7.1.1.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.1.2. Canada Agrigenomics Market

7.1.2.1. Application Breakdown Size & Forecasts, 2022-2032

7.1.2.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.2. Europe Agrigenomics Market

7.2.1. UK Agrigenomics Market

7.2.1.1. Application Breakdown Size & Forecasts, 2022-2032

7.2.1.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.2.2. Germany Agrigenomics Market

7.2.2.1. Application Breakdown Size & Forecasts, 2022-2032

7.2.2.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.2.3. France Agrigenomics Market

7.2.3.1. Application Breakdown Size & Forecasts, 2022-2032

7.2.3.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.2.4. Spain Agrigenomics Market

7.2.4.1. Application Breakdown Size & Forecasts, 2022-2032

7.2.4.2. Sequencer Breakdown Size & Forecasts, 2022-2032

7.2.5. Italy Agrigenomics Market

7.2.5.1. Application Breakdown Size & Forecasts, 2022-2032

- 7.2.5.2. Sequencer Breakdown Size & Forecasts, 2022-2032
- 7.2.6. Rest of Europe Agrigenomics Market
 - 7.2.6.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.2.6.2. Sequencer Breakdown Size & Forecasts, 2022-2032
- 7.3. Asia-Pacific Agrigenomics Market
 - 7.3.1. China Agrigenomics Market
 - 7.3.1.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.1.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.3.2. India Agrigenomics Market
 - 7.3.2.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.2.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.3.3. Japan Agrigenomics Market
 - 7.3.3.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.3.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.3.4. Australia Agrigenomics Market
 - & 7.3.4.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.4.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.3.5. South Korea Agrigenomics Market
 - 7.3.5.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.5.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.3.6. Rest of Asia-Pacific Agrigenomics Market
 - 7.3.6.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.3.6.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.4. Latin America Agrigenomics Market
 - 7.4.1. Brazil Agrigenomics Market
 - 7.4.1.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.4.1.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.4.2. Mexico Agrigenomics Market
 - 7.4.2.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.4.2.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.4.3. Rest of Latin America Agrigenomics Market
 - 7.4.3.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.4.3.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.5. Middle East & Africa Agrigenomics Market
 - 7.5.1. Saudi Arabia Agrigenomics Market
 - 7.5.1.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.5.1.2. Sequencer Breakdown Size & Forecasts, 2022-2032
 - 7.5.2. South Africa Agrigenomics Market
 - 7.5.2.1. Application Breakdown Size & Forecasts, 2022-2032

- 7.5.2.2. Sequencer Breakdown Size & Forecasts, 2022-2032
- 7.5.3. Rest of Middle East & Africa Agrigenomics Market
 - 7.5.3.1. Application Breakdown Size & Forecasts, 2022-2032
 - 7.5.3.2. Sequencer Breakdown Size & Forecasts, 2022-2032

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Thermo Fisher Scientific, Inc.
 - 8.1.2. Illumina, Inc.
 - 8.1.3. Agilent Technologies, Inc.
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Thermo Fisher Scientific, Inc.
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Market Strategies
 - 8.3.2. Eurofins Scientific
 - 8.3.3. Pacific Biosciences of California, Inc.
 - 8.3.4. LGC Limited
 - 8.3.5. Neogen Corporation
 - 8.3.6. Qiagen N.V.
 - 8.3.7. Danaher Corporation
 - 8.3.8. KeyGene N.V.
 - 8.3.9. BGI Group
 - 8.3.10. PerkinElmer, Inc.

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Agrigenomics market, report scope
- TABLE 2. Global Agrigenomics market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Agrigenomics market estimates & forecasts by Application 2022-2032 (USD Billion)
- TABLE 4. Global Agrigenomics market estimates & forecasts by Sequencer 2022-2032 (USD Billion)
- TABLE 5. Global Agrigenomics market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 6. Global Agrigenomics market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Agrigenomics market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Agrigenomics market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Agrigenomics market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Agrigenomics market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Agrigenomics market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Agrigenomics market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Agrigenomics market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Agrigenomics market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Agrigenomics market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Agrigenomics market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Agrigenomics market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Agrigenomics market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 19. Canada Agrigenomics market estimates & forecasts by segment

2022-2032 (USD Billion)

- TABLE 20. Canada Agrigenomics market estimates & forecasts by segment

2022-2032 (USD Billion)

- ...

List Of Figures

LIST OF FIGURES

- FIG 1. Global Agrigenomics market, research methodology
- FIG 2. Global Agrigenomics market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Agrigenomics market, key trends 2023
- FIG 5. Global Agrigenomics market, growth prospects 2022-2032
- FIG 6. Global Agrigenomics market, Porter's 5 Force Model
- FIG 7. Global Agrigenomics market, PESTEL analysis
- FIG 8. Global Agrigenomics market, value chain analysis
- FIG 9. Global Agrigenomics market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Agrigenomics market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Agrigenomics market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Agrigenomics market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Agrigenomics market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Agrigenomics market, regional snapshot 2022 & 2032
- FIG 15. North America Agrigenomics market 2022 & 2032 (USD Billion)
- FIG 16. Europe Agrigenomics market 2022 & 2032 (USD Billion)
- FIG 17. Asia-Pacific Agrigenomics market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Agrigenomics market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Agrigenomics market 2022 & 2032 (USD Billion)
- FIG 20. Global Agrigenomics market, company market share analysis (2023)
- ...

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global Agrigenomics Market Size Study, by Application (Crop, Livestock), Sequencer (Sanger Sequencing, Illumina Hi Seq Family, PacBio Sequencing), and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G492F2283A7EEN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G492F2283A7EEN.html>