

Livestock Genomics Testing Market By Test Type (Genotyping Services, Whole Genome Sequencing (WGS), Trait Testing, Genomic Selection (gEBV), Embryo Testing, Disease Gene Screening, Others), By Application (Selective Breeding, Productivity Enhancement, Food Safety, Disease Resistance, Others): Global Opportunity Analysis and Industry Forecast, 2025-2034

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Abstracts

The livestock genomics testing market was valued at \$1,533.4 million in 2024 and is estimated to reach \$3,691.4 million by 2034, exhibiting a CAGR of 9.3% from 2025 to 2034.

Livestock genomics testing refers to the application of genomic tools and techniques to analyze the genetic makeup of farm animals. This process helps in identifying desirable traits such as disease resistance, growth rate, reproduction efficiency, and product quality, thereby enabling breeders and farmers to make informed breeding decisions. The technology has been increasingly adopted across the livestock sector, including cattle, poultry, swine, and sheep, due to its potential to enhance productivity, improve animal health, and ensure sustainable livestock management. Livestock genomics testing includes whole genome sequencing, genotyping, DNA/RNA analysis, and marker-assisted selection.

Rise in demand for high-quality animal products such as meat, milk, and eggs, along with increase in awareness among farmers about genetic improvement programs, drives the growth of the livestock genomics testing market. Advancements in DNA

sequencing technologies and reduced testing costs have made genomic testing more accessible to small and medium-scale livestock producers. Furthermore, governments and agricultural bodies in several countries promote genetic research and offer funding for livestock improvement programs. Surge in need for disease-resistant and climate-resilient breeds, particularly in the face of changing environmental conditions, fosters market growth.

However, high initial costs associated with genomic infrastructure and testing equipment are barrier for widespread adoption of livestock genomics testing, especially in developing regions. In addition, lack of technical expertise and limited awareness about genomics among small-scale farmers hinder market growth. Concerns around data privacy and genetic information misuse also pose challenges to broader acceptance of genomics testing in livestock.

Increase in investment in agri-genomics research, particularly in emerging economies, offers significant opportunities for market growth. Integration of advanced technologies such as AI, bioinformatics, and big data analytics in genomics platforms is expected to enhance predictive capabilities and accelerate breeding cycles. Furthermore, collaborations among academic institutions, biotech firms, and livestock producers are expected to expand the availability of customized testing solutions. As the demand for sustainable and ethical animal farming grows, genomic testing is poised to become a critical tool in optimizing productivity while minimizing environmental impact, thereby unlocking new market potential. For instance, in September 2024, Neogen Corporation teamed up with Genetics Australia to develop a data-informed dairy breeding program focused on milk yield, fertility, and sustainability.

Segment Review

The livestock genomics testing market is segmented on the basis of type, application, and region. On the basis of type, the market is divided into genotyping services, whole genome sequencing (WGS), trait testing, genomic selection (GEBV), embryo testing, disease gene screening, and others. On the basis of application, the market is classified into selective breeding, productivity enhancement, food safety, disease resistance, and others. On the basis of region, the market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, France, UK, Italy, Spain, Russia and rest of Europe), Asia-Pacific (Japan, China, Australia, India, South Korea, and rest of Asia-Pacific), and LAMEA (Brazil, Saudi Arabia, South Africa, UAE, Australia and rest of LAMEA).

Key Findings

On the basis of type, the genotyping services segment was the major revenue contributor in 2024.

On the basis of application, the selective breeding segment was the major revenue contributor in 2024.

Region-wise, North America generated the highest revenue in 2024.

Competition Analysis

Major key players that operate in the global livestock genomics testing market are Neogen Corporation, Genus Plc, Illumina, Inc., Zoetis Genetics, Semex Alliance, Agresearch Limited, CRV, Easy DNA, Animal Genetics and XytoVet.

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Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

SWOT Analysis

Key Market Segments By Test Type

Embryo Testing

Disease Gene Screening

Others

Genotyping Services

Whole Genome Sequencing (WGS)

Trait Testing

Genomic Selection (gEBV)

By Application

Selective Breeding

Productivity Enhancement

Food Safety

Disease Resistance

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

Neogen Corporation

Illumina, Inc.

Genus Plc

Semex alliance

CRV Holding B.V.

Easy DNA

Animal Genetics, Inc

XytoVet

Zoetis Genetics

Agresearch Limited

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