

U.S. Animal Genetics Market Size, Share & Trends Analysis Report By Animal (Cattle, Pigs, Sheep & Goats), By Type (Assistive Reproduction Technologies, Live Animals, Genomic/Genetic Testing), By Distribution Channel (Private, Public), And Segment Forecasts, 2025 - 2033

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Abstracts

U.S. Animal Genetics Market Summary

The U.S. animal genetics market size was estimated at USD 1.94 billion in 2024 and is projected to reach USD 3.19 billion by 2033, growing at a CAGR of 5.83% from 2025 to 2033. Some of the factors driving the market growth are advancements in veterinary genetic research, emerging large-scale veterinary genetics projects, growing application in animal breeding, and increasing veterinary genetics training and education.

Advancements in animal genetics are significantly propelling growth in the U.S. market by enhancing disease resilience, breeding precision, and collaborative research infrastructure. A December 2024 USDA-funded collaboration network led by Utah State University, backed by more than USD 3.25 million, is fostering cross-institutional and interdisciplinary research in genome sequencing, digital DNA representations, and precision breeding across livestock such as cattle, sheep, pigs, poultry, and fish—ultimately supporting improvements in productivity, disease resistance, climate resilience, and food security.

Complementing this, UC Davis's March 2025 established Intentional Genomic Alteration Innovation Center (under an FDA-supported initiative) aims to advance genome editing across livestock like pigs, sheep, and cattle, with goals including

improved animal health, productivity, and enabling well-informed, science-based regulatory frameworks for gene-edited food animals. Meanwhile, on the practical side of gene editing, researchers are actively deploying DNA-editing techniques to introduce beneficial traits such as naturally hornless (polled) animals and enhanced disease resistance-efforts that not only align with consumer preferences and welfare standards but also strengthen livestock biosecurity.

Cumulatively, these developments-from robust funding and collaborative infrastructure to targeted gene editing technologies-are underpinning larger-scale deployment of genomic tools in agriculture. Together, they drive market expansion by accelerating the translation of innovative research into commercially viable solutions, catalyzing demand for genetic testing, breeding services, and gene-editing applications.

The expanding use of genetic tools in animal breeding is propelling the growth of the U.S. animal genetics industry by enabling far more precise, efficient, and sustainable livestock development. According to the Genetic Literacy Project, exploiting the tiny genetic differences-even those under 1%-between individual animals makes it possible to breed animals optimized for economic performance, environmental resilience, and social sustainability; this precision elevates breeding programs from art to high-impact science.

Concurrently, the establishment of Texas A&M's new Center for Comparative Genomics-backed by millions in institutional funding-positions the university as a hub for interdisciplinary research in animal genetics, fostering innovations in trait improvement, disease resistance, and translational applications across agriculture and biomedicine. Together, these developments-leveraging genomic insights and institutional capacity-are driving market expansion by accelerating the translation of research into commercial breeding services, genetic testing, and advanced genomic solutions that are transforming livestock production across the U.S.

U.S. Animal Genetics Market Report Segmentation

This report forecasts revenue growth at the country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. animal genetics market report based on animal, type, and distribution channel:

Animal Outlook (Revenue, USD Million, 2021 - 2033)

Cattle

Pigs

Sheep & Goats

Companion Animals

Others

Type Outlook (Revenue, USD Million, 2021 - 2033)

Assistive Reproduction Technologies

Live Animals

Genomic/Genetic Testing

Distribution Channel Outlook (Revenue, USD Million, 2021 - 2033)

Private

Public

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