

Global Gene-Edited Donor Animal Breeding System Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Gene-Edited Donor Animal Breeding System market size is predicted to grow from US\$ 123 million in 2025 to US\$ 644 million in 2032; it is expected to grow at a CAGR of 26.9% from 2026 to 2032.

Gene-edited donor animal breeding system is an integrated breeding and quality-control platform for xenotransplantation donor animals, mainly pigs. It covers multiplex CRISPR/Cas editing, somatic cell nuclear transfer or embryo editing, SPF/DPF barrier breeding, pathogen elimination and monitoring, pedigree tracking, tissue matching, and pre-procurement release testing for donor animals supplying kidneys, hearts, livers, lungs, islets, cells, tissues, and organs. The system usually emphasizes edit stability, PERV inactivation, immune compatibility, human transgene expression, designated-pathogen control, reproductive performance, and regulatory traceability, with gross margin of about 55%.

As xenotransplantation moves from preclinical work into early clinical validation, donor animal breeding is no longer only a laboratory animal production step; it has become an upstream platform that determines organ safety, immune compatibility, and batch traceability. Demand for reliable donor sources is increasing in kidney, heart, liver, lung, and islet programs, while hospitals, translational centers, and biotechnology companies place more value on releasable, traceable, and repeatable donor animal systems.

Product upgrading is centered on multiplex gene-editing packages, PERV inactivation, designated-pathogen-free barrier breeding, and organ-specific donor lineages. Leading companies tend to integrate genome editing, cloning, animal facilities, pathogen testing, and organ procurement into closed platform capabilities, while smaller participants usually enter the market through donor-line licensing, contract breeding, and joint

development for selected organs or regions.

The United States leads in clinical trials and industrialized production, while China and Japan are accelerating donor pig herd construction, DPF facilities, and clinical translation; Europe is more focused on heart programs and preclinical validation. Opportunities come from organ shortages, clearer regulatory pathways, and multi-center clinical collaboration, while risks remain in long-term immune rejection, cross-species pathogen control, animal ethics, facility investment, and differences in clinical release standards.

Report Scope

LPI (LP Information)' newest research report, the "Gene-Edited Donor Animal Breeding System Industry Forecast" looks at past sales and reviews total world Gene-Edited Donor Animal Breeding System sales in 2025, providing a comprehensive analysis by region and market sector of projected Gene-Edited Donor Animal Breeding System sales for 2026 through 2032. With Gene-Edited Donor Animal Breeding System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gene-Edited Donor Animal Breeding System industry.

This Insight Report provides a comprehensive analysis of the global Gene-Edited Donor Animal Breeding System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Gene-Edited Donor Animal Breeding System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gene-Edited Donor Animal Breeding System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gene-Edited Donor Animal Breeding System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Gene-Edited Donor Animal Breeding System.

This report presents a comprehensive overview, market shares, and growth

opportunities of Gene-Edited Donor Animal Breeding System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Kidney Donor Animal Breeding System

Heart Donor Animal Breeding System

Liver Donor Animal Breeding System

Lung Donor Animal Breeding System

Islet and Cell Donor Animal Breeding System

Tissue Donor Animal Breeding System

Segmentation by Gene Edit Package:

Single-Gene Knockout Breeding System

Triple-Knockout Breeding System

Knockout and Human Transgene Breeding System

PERV-Inactivated Multi-Edit Breeding System

Custom Gene Edit Breeding System

Segmentation by Pathogen Control Grade:

Conventional Clean Breeding System

SPF Breeding System

DPF Breeding System

Gnotobiotic Breeding System

Clinical-Release Breeding System

Segmentation by Delivery Mode:

Turnkey Barrier Facility System

Modular Breeding Suite System

Contract Breeding Service System

Donor Line Licensing System

Joint Development Breeding Platform

Segmentation by Application:

Xenogeneic Kidney Transplantation

Xenogeneic Heart Transplantation

Xenogeneic Liver Support and Transplantation

Xenogeneic Lung Transplantation

Islet and Cell Therapy

Preclinical Safety and Compatibility Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

eGenesis

United Therapeutics / Revivicor

Qihan Biotech

ClonOrgan

PorMedTec

Makana Therapeutics

XenoTherapeutics

XTransplant

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Gene-Edited Donor Animal Breeding System Market Size (2021-2032)
- 2.1.2 Gene-Edited Donor Animal Breeding System Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Gene-Edited Donor Animal Breeding System by Country/Region (2021, 2025 & 2032)

2.2 Gene-Edited Donor Animal Breeding System Segment by Type

- 2.2.1 Kidney Donor Animal Breeding System
- 2.2.2 Heart Donor Animal Breeding System
- 2.2.3 Liver Donor Animal Breeding System
- 2.2.4 Lung Donor Animal Breeding System
- 2.2.5 Islet and Cell Donor Animal Breeding System
- 2.2.6 Tissue Donor Animal Breeding System
- 2.2.7 Gene-Edited Donor Animal Breeding System Market Size by Type
 - 2.2.7.1 Gene-Edited Donor Animal Breeding System Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.7.2 Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

2.3 Gene-Edited Donor Animal Breeding System Segment by Gene Edit Package

- 2.3.1 Single-Gene Knockout Breeding System
- 2.3.2 Triple-Knockout Breeding System
- 2.3.3 Knockout and Human Transgene Breeding System
- 2.3.4 PERV-Inactivated Multi-Edit Breeding System
- 2.3.5 Custom Gene Edit Breeding System

- 2.3.6 Gene-Edited Donor Animal Breeding System Market Size by Gene Edit Package
 - 2.3.6.1 Gene-Edited Donor Animal Breeding System Market Size CAGR by Gene Edit Package (2021 VS 2025 VS 2032)
 - 2.3.6.2 Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Gene Edit Package (2021-2026)
- 2.4 Gene-Edited Donor Animal Breeding System Segment by Pathogen Control Grade
 - 2.4.1 Conventional Clean Breeding System
 - 2.4.2 SPF Breeding System
 - 2.4.3 DPF Breeding System
 - 2.4.4 Gnotobiotic Breeding System
 - 2.4.5 Clinical-Release Breeding System
 - 2.4.6 Gene-Edited Donor Animal Breeding System Market Size by Pathogen Control Grade
 - 2.4.6.1 Gene-Edited Donor Animal Breeding System Market Size CAGR by Pathogen Control Grade (2021 VS 2025 VS 2032)
 - 2.4.6.2 Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Pathogen Control Grade (2021-2026)
- 2.5 Gene-Edited Donor Animal Breeding System Segment by Delivery Mode
 - 2.5.1 Turnkey Barrier Facility System
 - 2.5.2 Modular Breeding Suite System
 - 2.5.3 Contract Breeding Service System
 - 2.5.4 Donor Line Licensing System
 - 2.5.5 Joint Development Breeding Platform
 - 2.5.6 Gene-Edited Donor Animal Breeding System Market Size by Delivery Mode
 - 2.5.6.1 Gene-Edited Donor Animal Breeding System Market Size CAGR by Delivery Mode (2021 VS 2025 VS 2032)
 - 2.5.6.2 Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Delivery Mode (2021-2026)
- 2.6 Gene-Edited Donor Animal Breeding System Segment by Application
 - 2.6.1 Xenogeneic Kidney Transplantation
 - 2.6.2 Xenogeneic Heart Transplantation
 - 2.6.3 Xenogeneic Liver Support and Transplantation
 - 2.6.4 Xenogeneic Lung Transplantation
 - 2.6.5 Islet and Cell Therapy
 - 2.6.6 Preclinical Safety and Compatibility Research
 - 2.6.7 Gene-Edited Donor Animal Breeding System Market Size by Application
 - 2.6.7.1 Gene-Edited Donor Animal Breeding System Market Size CAGR by Application (2021 VS 2025 VS 2032)
 - 2.6.7.2 Global Gene-Edited Donor Animal Breeding System Market Size Market

Share by Application (2021-2026)

3 GENE-EDITED DONOR ANIMAL BREEDING SYSTEM MARKET SIZE BY PLAYER

3.1 Gene-Edited Donor Animal Breeding System Market Size Market Share by Player

3.1.1 Global Gene-Edited Donor Animal Breeding System Revenue by Player
(2021-2026)

3.1.2 Global Gene-Edited Donor Animal Breeding System Revenue Market Share by
Player (2021-2026)

3.2 Global Gene-Edited Donor Animal Breeding System Key Players Head office and
Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 GENE-EDITED DONOR ANIMAL BREEDING SYSTEM BY REGION

4.1 Gene-Edited Donor Animal Breeding System Market Size by Region (2021-2026)

4.2 Global Gene-Edited Donor Animal Breeding System Annual Revenue by
Country/Region (2021-2026)

4.3 Americas Gene-Edited Donor Animal Breeding System Market Size Growth
(2021-2026)

4.4 APAC Gene-Edited Donor Animal Breeding System Market Size Growth
(2021-2026)

4.5 Europe Gene-Edited Donor Animal Breeding System Market Size Growth
(2021-2026)

4.6 Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size
Growth (2021-2026)

5 AMERICAS

5.1 Americas Gene-Edited Donor Animal Breeding System Market Size by Country
(2021-2026)

5.2 Americas Gene-Edited Donor Animal Breeding System Market Size by Type
(2021-2026)

5.3 Americas Gene-Edited Donor Animal Breeding System Market Size by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Gene-Edited Donor Animal Breeding System Market Size by Region
(2021-2026)

6.2 APAC Gene-Edited Donor Animal Breeding System Market Size by Type
(2021-2026)

6.3 APAC Gene-Edited Donor Animal Breeding System Market Size by Application
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Gene-Edited Donor Animal Breeding System Market Size by Country
(2021-2026)

7.2 Europe Gene-Edited Donor Animal Breeding System Market Size by Type
(2021-2026)

7.3 Europe Gene-Edited Donor Animal Breeding System Market Size by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Gene-Edited Donor Animal Breeding System by Region
(2021-2026)

8.2 Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size by

Type (2021-2026)

8.3 Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL GENE-EDITED DONOR ANIMAL BREEDING SYSTEM MARKET FORECAST

10.1 Global Gene-Edited Donor Animal Breeding System Forecast by Region (2027-2032)

10.1.1 Global Gene-Edited Donor Animal Breeding System Forecast by Region (2027-2032)

10.1.2 Americas Gene-Edited Donor Animal Breeding System Forecast

10.1.3 APAC Gene-Edited Donor Animal Breeding System Forecast

10.1.4 Europe Gene-Edited Donor Animal Breeding System Forecast

10.1.5 Middle East & Africa Gene-Edited Donor Animal Breeding System Forecast

10.2 Americas Gene-Edited Donor Animal Breeding System Forecast by Country (2027-2032)

10.2.1 United States Market Gene-Edited Donor Animal Breeding System Forecast

10.2.2 Canada Market Gene-Edited Donor Animal Breeding System Forecast

10.2.3 Mexico Market Gene-Edited Donor Animal Breeding System Forecast

10.2.4 Brazil Market Gene-Edited Donor Animal Breeding System Forecast

10.3 APAC Gene-Edited Donor Animal Breeding System Forecast by Region (2027-2032)

10.3.1 China Gene-Edited Donor Animal Breeding System Market Forecast

10.3.2 Japan Market Gene-Edited Donor Animal Breeding System Forecast

10.3.3 Korea Market Gene-Edited Donor Animal Breeding System Forecast

10.3.4 Southeast Asia Market Gene-Edited Donor Animal Breeding System Forecast

10.3.5 India Market Gene-Edited Donor Animal Breeding System Forecast

- 10.3.6 Australia Market Gene-Edited Donor Animal Breeding System Forecast
- 10.4 Europe Gene-Edited Donor Animal Breeding System Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.4.2 France Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.4.3 UK Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.4.4 Italy Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.4.5 Russia Market Gene-Edited Donor Animal Breeding System Forecast
- 10.5 Middle East & Africa Gene-Edited Donor Animal Breeding System Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.5.2 South Africa Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.5.3 Israel Market Gene-Edited Donor Animal Breeding System Forecast
 - 10.5.4 Turkey Market Gene-Edited Donor Animal Breeding System Forecast
- 10.6 Global Gene-Edited Donor Animal Breeding System Forecast by Type (2027-2032)
- 10.7 Global Gene-Edited Donor Animal Breeding System Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Gene-Edited Donor Animal Breeding System Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 eGenesis
 - 11.1.1 eGenesis Company Information
 - 11.1.2 eGenesis Gene-Edited Donor Animal Breeding System Product Offered
 - 11.1.3 eGenesis Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)
 - 11.1.4 eGenesis Main Business Overview
 - 11.1.5 eGenesis Latest Developments
- 11.2 United Therapeutics / Revivicor
 - 11.2.1 United Therapeutics / Revivicor Company Information
 - 11.2.2 United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Product Offered
 - 11.2.3 United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 United Therapeutics / Revivicor Main Business Overview
 - 11.2.5 United Therapeutics / Revivicor Latest Developments
- 11.3 Qihan Biotech
 - 11.3.1 Qihan Biotech Company Information
 - 11.3.2 Qihan Biotech Gene-Edited Donor Animal Breeding System Product Offered

11.3.3 Qihan Biotech Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.3.4 Qihan Biotech Main Business Overview

11.3.5 Qihan Biotech Latest Developments

11.4 ClonOrgan

11.4.1 ClonOrgan Company Information

11.4.2 ClonOrgan Gene-Edited Donor Animal Breeding System Product Offered

11.4.3 ClonOrgan Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.4.4 ClonOrgan Main Business Overview

11.4.5 ClonOrgan Latest Developments

11.5 PorMedTec

11.5.1 PorMedTec Company Information

11.5.2 PorMedTec Gene-Edited Donor Animal Breeding System Product Offered

11.5.3 PorMedTec Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.5.4 PorMedTec Main Business Overview

11.5.5 PorMedTec Latest Developments

11.6 Makana Therapeutics

11.6.1 Makana Therapeutics Company Information

11.6.2 Makana Therapeutics Gene-Edited Donor Animal Breeding System Product Offered

11.6.3 Makana Therapeutics Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.6.4 Makana Therapeutics Main Business Overview

11.6.5 Makana Therapeutics Latest Developments

11.7 XenoTherapeutics

11.7.1 XenoTherapeutics Company Information

11.7.2 XenoTherapeutics Gene-Edited Donor Animal Breeding System Product Offered

11.7.3 XenoTherapeutics Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 XenoTherapeutics Main Business Overview

11.7.5 XenoTherapeutics Latest Developments

11.8 XTransplant

11.8.1 XTransplant Company Information

11.8.2 XTransplant Gene-Edited Donor Animal Breeding System Product Offered

11.8.3 XTransplant Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 XTransplant Main Business Overview

11.8.5 XTransplant Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Gene-Edited Donor Animal Breeding System Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Gene-Edited Donor Animal Breeding System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Kidney Donor Animal Breeding System

Table 4. Major Players of Heart Donor Animal Breeding System

Table 5. Major Players of Liver Donor Animal Breeding System

Table 6. Major Players of Lung Donor Animal Breeding System

Table 7. Major Players of Islet and Cell Donor Animal Breeding System

Table 8. Major Players of Tissue Donor Animal Breeding System

Table 9. Gene-Edited Donor Animal Breeding System Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 10. Global Gene-Edited Donor Animal Breeding System Market Size by Type (2021-2026) & (\$ millions)

Table 11. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

Table 12. Major Players of Single-Gene Knockout Breeding System

Table 13. Major Players of Triple-Knockout Breeding System

Table 14. Major Players of Knockout and Human Transgene Breeding System

Table 15. Major Players of PERV-Inactivated Multi-Edit Breeding System

Table 16. Major Players of Custom Gene Edit Breeding System

Table 17. Gene-Edited Donor Animal Breeding System Market Size CAGR by Gene Edit Package (2021 VS 2025 VS 2032) & (\$ millions)

Table 18. Global Gene-Edited Donor Animal Breeding System Market Size by Gene Edit Package (2021-2026) & (\$ millions)

Table 19. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Gene Edit Package (2021-2026)

Table 20. Major Players of Conventional Clean Breeding System

Table 21. Major Players of SPF Breeding System

Table 22. Major Players of DPF Breeding System

Table 23. Major Players of Gnotobiotic Breeding System

Table 24. Major Players of Clinical-Release Breeding System

Table 25. Gene-Edited Donor Animal Breeding System Market Size CAGR by Pathogen Control Grade (2021 VS 2025 VS 2032) & (\$ millions)

Table 26. Global Gene-Edited Donor Animal Breeding System Market Size by Pathogen

Control Grade (2021-2026) & (\$ millions)

Table 27. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Pathogen Control Grade (2021-2026)

Table 28. Major Players of Turnkey Barrier Facility System

Table 29. Major Players of Modular Breeding Suite System

Table 30. Major Players of Contract Breeding Service System

Table 31. Major Players of Donor Line Licensing System

Table 32. Major Players of Joint Development Breeding Platform

Table 33. Gene-Edited Donor Animal Breeding System Market Size CAGR by Delivery Mode (2021 VS 2025 VS 2032) & (\$ millions)

Table 34. Global Gene-Edited Donor Animal Breeding System Market Size by Delivery Mode (2021-2026) & (\$ millions)

Table 35. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Delivery Mode (2021-2026)

Table 36. Gene-Edited Donor Animal Breeding System Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 37. Global Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026) & (\$ millions)

Table 38. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Application (2021-2026)

Table 39. Global Gene-Edited Donor Animal Breeding System Revenue by Player (2021-2026) & (\$ millions)

Table 40. Global Gene-Edited Donor Animal Breeding System Revenue Market Share by Player (2021-2026)

Table 41. Gene-Edited Donor Animal Breeding System Key Players Head office and Products Offered

Table 42. Gene-Edited Donor Animal Breeding System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Mergers & Acquisitions, Expansion

Table 45. Global Gene-Edited Donor Animal Breeding System Market Size by Region (2021-2026) & (\$ millions)

Table 46. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Region (2021-2026)

Table 47. Global Gene-Edited Donor Animal Breeding System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Gene-Edited Donor Animal Breeding System Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Gene-Edited Donor Animal Breeding System Market Size by

Country (2021-2026) & (\$ millions)

Table 50. Americas Gene-Edited Donor Animal Breeding System Market Size Market Share by Country (2021-2026)

Table 51. Americas Gene-Edited Donor Animal Breeding System Market Size by Type (2021-2026) & (\$ millions)

Table 52. Americas Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

Table 53. Americas Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026) & (\$ millions)

Table 54. Americas Gene-Edited Donor Animal Breeding System Market Size Market Share by Application (2021-2026)

Table 55. APAC Gene-Edited Donor Animal Breeding System Market Size by Region (2021-2026) & (\$ millions)

Table 56. APAC Gene-Edited Donor Animal Breeding System Market Size Market Share by Region (2021-2026)

Table 57. APAC Gene-Edited Donor Animal Breeding System Market Size by Type (2021-2026) & (\$ millions)

Table 58. APAC Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026) & (\$ millions)

Table 59. Europe Gene-Edited Donor Animal Breeding System Market Size by Country (2021-2026) & (\$ millions)

Table 60. Europe Gene-Edited Donor Animal Breeding System Market Size Market Share by Country (2021-2026)

Table 61. Europe Gene-Edited Donor Animal Breeding System Market Size by Type (2021-2026) & (\$ millions)

Table 62. Europe Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026) & (\$ millions)

Table 63. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size by Region (2021-2026) & (\$ millions)

Table 64. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size by Type (2021-2026) & (\$ millions)

Table 65. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2026) & (\$ millions)

Table 66. Key Market Drivers & Growth Opportunities of Gene-Edited Donor Animal Breeding System

Table 67. Key Market Challenges & Risks of Gene-Edited Donor Animal Breeding System

Table 68. Key Industry Trends of Gene-Edited Donor Animal Breeding System

Table 69. Global Gene-Edited Donor Animal Breeding System Market Size Forecast by

Region (2027-2032) & (\$ millions)

Table 70. Global Gene-Edited Donor Animal Breeding System Market Size Market Share Forecast by Region (2027-2032)

Table 71. Global Gene-Edited Donor Animal Breeding System Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 72. Global Gene-Edited Donor Animal Breeding System Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 73. eGenesis Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 74. eGenesis Gene-Edited Donor Animal Breeding System Product Offered

Table 75. eGenesis Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 76. eGenesis Main Business

Table 77. eGenesis Latest Developments

Table 78. United Therapeutics / Revivicor Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 79. United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Product Offered

Table 80. United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 81. United Therapeutics / Revivicor Main Business

Table 82. United Therapeutics / Revivicor Latest Developments

Table 83. Qihan Biotech Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 84. Qihan Biotech Gene-Edited Donor Animal Breeding System Product Offered

Table 85. Qihan Biotech Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 86. Qihan Biotech Main Business

Table 87. Qihan Biotech Latest Developments

Table 88. ClonOrgan Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 89. ClonOrgan Gene-Edited Donor Animal Breeding System Product Offered

Table 90. ClonOrgan Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 91. ClonOrgan Main Business

Table 92. ClonOrgan Latest Developments

Table 93. PorMedTec Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 94. PorMedTec Gene-Edited Donor Animal Breeding System Product Offered

Table 95. PorMedTec Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 96. PorMedTec Main Business

Table 97. PorMedTec Latest Developments

Table 98. Makana Therapeutics Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 99. Makana Therapeutics Gene-Edited Donor Animal Breeding System Product Offered

Table 100. Makana Therapeutics Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 101. Makana Therapeutics Main Business

Table 102. Makana Therapeutics Latest Developments

Table 103. XenoTherapeutics Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 104. XenoTherapeutics Gene-Edited Donor Animal Breeding System Product Offered

Table 105. XenoTherapeutics Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 106. XenoTherapeutics Main Business

Table 107. XenoTherapeutics Latest Developments

Table 108. XTransplant Details, Company Type, Gene-Edited Donor Animal Breeding System Area Served and Its Competitors

Table 109. XTransplant Gene-Edited Donor Animal Breeding System Product Offered

Table 110. XTransplant Gene-Edited Donor Animal Breeding System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 111. XTransplant Main Business

Table 112. XTransplant Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Gene-Edited Donor Animal Breeding System Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Gene-Edited Donor Animal Breeding System Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Gene-Edited Donor Animal Breeding System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Gene-Edited Donor Animal Breeding System Sales Market Share by Country/Region (2025)

Figure 8. Gene-Edited Donor Animal Breeding System Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Type in 2025

Figure 10. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Gene Edit Package in 2025

Figure 11. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Pathogen Control Grade in 2025

Figure 12. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Delivery Mode in 2025

Figure 13. Gene-Edited Donor Animal Breeding System in Xenogeneic Kidney Transplantation

Figure 14. Global Gene-Edited Donor Animal Breeding System Market: Xenogeneic Kidney Transplantation (2021-2026) & (\$ millions)

Figure 15. Gene-Edited Donor Animal Breeding System in Xenogeneic Heart Transplantation

Figure 16. Global Gene-Edited Donor Animal Breeding System Market: Xenogeneic Heart Transplantation (2021-2026) & (\$ millions)

Figure 17. Gene-Edited Donor Animal Breeding System in Xenogeneic Liver Support and Transplantation

Figure 18. Global Gene-Edited Donor Animal Breeding System Market: Xenogeneic Liver Support and Transplantation (2021-2026) & (\$ millions)

Figure 19. Gene-Edited Donor Animal Breeding System in Xenogeneic Lung Transplantation

Figure 20. Global Gene-Edited Donor Animal Breeding System Market: Xenogeneic

Lung Transplantation (2021-2026) & (\$ millions)

Figure 21. Gene-Edited Donor Animal Breeding System in Islet and Cell Therapy

Figure 22. Global Gene-Edited Donor Animal Breeding System Market: Islet and Cell Therapy (2021-2026) & (\$ millions)

Figure 23. Gene-Edited Donor Animal Breeding System in Preclinical Safety and Compatibility Research

Figure 24. Global Gene-Edited Donor Animal Breeding System Market: Preclinical Safety and Compatibility Research (2021-2026) & (\$ millions)

Figure 25. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Application in 2025

Figure 26. Global Gene-Edited Donor Animal Breeding System Revenue Market Share by Player in 2025

Figure 27. Global Gene-Edited Donor Animal Breeding System Market Size Market Share by Region (2021-2026)

Figure 28. Americas Gene-Edited Donor Animal Breeding System Market Size 2021-2026 (\$ millions)

Figure 29. APAC Gene-Edited Donor Animal Breeding System Market Size 2021-2026 (\$ millions)

Figure 30. Europe Gene-Edited Donor Animal Breeding System Market Size 2021-2026 (\$ millions)

Figure 31. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size 2021-2026 (\$ millions)

Figure 32. Americas Gene-Edited Donor Animal Breeding System Value Market Share by Country in 2025

Figure 33. United States Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 34. Canada Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 35. Mexico Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 36. Brazil Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 37. APAC Gene-Edited Donor Animal Breeding System Market Size Market Share by Region in 2025

Figure 38. APAC Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

Figure 39. APAC Gene-Edited Donor Animal Breeding System Market Size Market Share by Application (2021-2026)

Figure 40. China Gene-Edited Donor Animal Breeding System Market Size Growth

2021-2026 (\$ millions)

Figure 41. Japan Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 42. South Korea Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 43. Southeast Asia Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 44. India Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 45. Australia Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 46. Europe Gene-Edited Donor Animal Breeding System Market Size Market Share by Country in 2025

Figure 47. Europe Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

Figure 48. Europe Gene-Edited Donor Animal Breeding System Market Size Market Share by Application (2021-2026)

Figure 49. Germany Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 50. France Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 51. UK Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 52. Italy Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 53. Russia Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size Market Share by Region (2021-2026)

Figure 55. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size Market Share by Type (2021-2026)

Figure 56. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size Market Share by Application (2021-2026)

Figure 57. Egypt Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 58. South Africa Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 59. Israel Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 60. Turkey Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 61. GCC Countries Gene-Edited Donor Animal Breeding System Market Size Growth 2021-2026 (\$ millions)

Figure 62. Americas Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 63. APAC Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 64. Europe Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 65. Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 66. United States Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 67. Canada Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 68. Mexico Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 69. Brazil Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 70. China Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 71. Japan Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 72. Korea Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 73. Southeast Asia Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 74. India Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 75. Australia Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 76. Germany Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 77. France Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 78. UK Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 79. Italy Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

millions)

Figure 80. Russia Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 81. Egypt Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 82. South Africa Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 83. Israel Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 84. Turkey Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

Figure 85. Global Gene-Edited Donor Animal Breeding System Market Size Market Share Forecast by Type (2027-2032)

Figure 86. Global Gene-Edited Donor Animal Breeding System Market Size Market Share Forecast by Application (2027-2032)

Figure 87. GCC Countries Gene-Edited Donor Animal Breeding System Market Size 2027-2032 (\$ millions)

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