

Global Gene-Edited Donor Animal Breeding System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Gene-Edited Donor Animal Breeding System market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 629 million by 2032 with a CAGR of 25.3% during review period.

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

This report is a detailed and comprehensive analysis for global Gene-Edited Donor Animal Breeding System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gene-Edited Donor Animal Breeding System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Gene-Edited Donor Animal Breeding System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Gene-Edited Donor Animal Breeding System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Gene-Edited Donor Animal Breeding System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Gene-Edited Donor Animal Breeding System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Gene-Edited Donor Animal Breeding System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include eGenesis, United Therapeutics / Revivicor, Qihan Biotech, ClonOrgan, PorMedTec, Makana Therapeutics, XenoTherapeutics, XTransplant, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Gene-Edited Donor Animal Breeding System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment 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

Market segment by Pathogen Control Grade

Conventional Clean Breeding System

SPF Breeding System

DPF Breeding System

Gnotobiotic Breeding System

Clinical-Release Breeding System

Market segment by Delivery Mode

Turnkey Barrier Facility System

Modular Breeding Suite System

Contract Breeding Service System

Donor Line Licensing System

Joint Development Breeding Platform

Market segment 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

Market segment by players, this report covers

eGenesis

United Therapeutics / Revivicor

Qihan Biotech

ClonOrgan

PorMedTec

Makana Therapeutics

XenoTherapeutics

XTransplant

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Gene-Edited Donor Animal Breeding System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Gene-Edited Donor Animal Breeding System, with revenue, gross margin, and global market share of Gene-Edited Donor Animal Breeding System from 2021 to 2026.

Chapter 3, the Gene-Edited Donor Animal Breeding System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Gene-Edited Donor Animal Breeding System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Gene-Edited Donor Animal Breeding System.

Chapter 13, to describe Gene-Edited Donor Animal Breeding System research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Gene-Edited Donor Animal Breeding System by Type

1.3.1 Overview: Global Gene-Edited Donor Animal Breeding System Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type in 2025

1.3.3 Kidney Donor Animal Breeding System

1.3.4 Heart Donor Animal Breeding System

1.3.5 Liver Donor Animal Breeding System

1.3.6 Lung Donor Animal Breeding System

1.3.7 Islet and Cell Donor Animal Breeding System

1.3.8 Tissue Donor Animal Breeding System

1.4 Classification of Gene-Edited Donor Animal Breeding System by Gene Edit Package

1.4.1 Overview: Global Gene-Edited Donor Animal Breeding System Market Size by Gene Edit Package: 2021 Versus 2025 Versus 2032

1.4.2 Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Gene Edit Package in 2025

1.4.3 Single-Gene Knockout Breeding System

1.4.4 Triple-Knockout Breeding System

1.4.5 Knockout and Human Transgene Breeding System

1.4.6 PERV-Inactivated Multi-Edit Breeding System

1.4.7 Custom Gene Edit Breeding System

1.5 Classification of Gene-Edited Donor Animal Breeding System by Pathogen Control Grade

1.5.1 Overview: Global Gene-Edited Donor Animal Breeding System Market Size by Pathogen Control Grade: 2021 Versus 2025 Versus 2032

1.5.2 Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Pathogen Control Grade in 2025

1.5.3 Conventional Clean Breeding System

1.5.4 SPF Breeding System

1.5.5 DPF Breeding System

1.5.6 Gnotobiotic Breeding System

1.5.7 Clinical-Release Breeding System

1.6 Classification of Gene-Edited Donor Animal Breeding System by Delivery Mode

1.6.1 Overview: Global Gene-Edited Donor Animal Breeding System Market Size by Delivery Mode: 2021 Versus 2025 Versus 2032

1.6.2 Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Delivery Mode in 2025

1.6.3 Turnkey Barrier Facility System

1.6.4 Modular Breeding Suite System

1.6.5 Contract Breeding Service System

1.6.6 Donor Line Licensing System

1.6.7 Joint Development Breeding Platform

1.7 Global Gene-Edited Donor Animal Breeding System Market by Application

1.7.1 Overview: Global Gene-Edited Donor Animal Breeding System Market Size by Application: 2021 Versus 2025 Versus 2032

1.7.2 Xenogeneic Kidney Transplantation

1.7.3 Xenogeneic Heart Transplantation

1.7.4 Xenogeneic Liver Support and Transplantation

1.7.5 Xenogeneic Lung Transplantation

1.7.6 Islet and Cell Therapy

1.7.7 Preclinical Safety and Compatibility Research

1.8 Global Gene-Edited Donor Animal Breeding System Market Size & Forecast

1.9 Global Gene-Edited Donor Animal Breeding System Market Size and Forecast by Region

1.9.1 Global Gene-Edited Donor Animal Breeding System Market Size by Region: 2021 VS 2025 VS 2032

1.9.2 Global Gene-Edited Donor Animal Breeding System Market Size by Region, (2021-2032)

1.9.3 North America Gene-Edited Donor Animal Breeding System Market Size and Prospect (2021-2032)

1.9.4 Europe Gene-Edited Donor Animal Breeding System Market Size and Prospect (2021-2032)

1.9.5 Asia-Pacific Gene-Edited Donor Animal Breeding System Market Size and Prospect (2021-2032)

1.9.6 South America Gene-Edited Donor Animal Breeding System Market Size and Prospect (2021-2032)

1.9.7 Middle East & Africa Gene-Edited Donor Animal Breeding System Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 eGenesis

2.1.1 eGenesis Details

2.1.2 eGenesis Major Business

2.1.3 eGenesis Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.1.5 eGenesis Recent Developments and Future Plans

2.2 United Therapeutics / Revivicor

2.2.1 United Therapeutics / Revivicor Details

2.2.2 United Therapeutics / Revivicor Major Business

2.2.3 United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Product and Solutions

2.2.4 United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 United Therapeutics / Revivicor Recent Developments and Future Plans

2.3 Qihan Biotech

2.3.1 Qihan Biotech Details

2.3.2 Qihan Biotech Major Business

2.3.3 Qihan Biotech Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.3.5 Qihan Biotech Recent Developments and Future Plans

2.4 ClonOrgan

2.4.1 ClonOrgan Details

2.4.2 ClonOrgan Major Business

2.4.3 ClonOrgan Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.4.5 ClonOrgan Recent Developments and Future Plans

2.5 PorMedTec

2.5.1 PorMedTec Details

2.5.2 PorMedTec Major Business

2.5.3 PorMedTec Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.5.5 PorMedTec Recent Developments and Future Plans

2.6 Makana Therapeutics

2.6.1 Makana Therapeutics Details

2.6.2 Makana Therapeutics Major Business

2.6.3 Makana Therapeutics Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.6.5 Makana Therapeutics Recent Developments and Future Plans

2.7 XenoTherapeutics

2.7.1 XenoTherapeutics Details

2.7.2 XenoTherapeutics Major Business

2.7.3 XenoTherapeutics Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.7.5 XenoTherapeutics Recent Developments and Future Plans

2.8 XTransplant

2.8.1 XTransplant Details

2.8.2 XTransplant Major Business

2.8.3 XTransplant Gene-Edited Donor Animal Breeding System Product and Solutions

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

2.8.5 XTransplant Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Gene-Edited Donor Animal Breeding System Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Gene-Edited Donor Animal Breeding System by Company Revenue

3.2.2 Top 3 Gene-Edited Donor Animal Breeding System Players Market Share in 2025

3.2.3 Top 6 Gene-Edited Donor Animal Breeding System Players Market Share in 2025

3.3 Gene-Edited Donor Animal Breeding System Market: Overall Company Footprint Analysis

3.3.1 Gene-Edited Donor Animal Breeding System Market: Region Footprint

3.3.2 Gene-Edited Donor Animal Breeding System Market: Company Product Type Footprint

3.3.3 Gene-Edited Donor Animal Breeding System Market: Company Product

Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Gene-Edited Donor Animal Breeding System Consumption Value and Market Share by Type (2021-2026)

4.2 Global Gene-Edited Donor Animal Breeding System Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2026)

5.2 Global Gene-Edited Donor Animal Breeding System Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2032)

6.2 North America Gene-Edited Donor Animal Breeding System Market Size by Application (2021-2032)

6.3 North America Gene-Edited Donor Animal Breeding System Market Size by Country

6.3.1 North America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2032)

6.3.2 United States Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

6.3.3 Canada Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

6.3.4 Mexico Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2032)

7.2 Europe Gene-Edited Donor Animal Breeding System Consumption Value by

Application (2021-2032)

7.3 Europe Gene-Edited Donor Animal Breeding System Market Size by Country

7.3.1 Europe Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2032)

7.3.2 Germany Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

7.3.3 France Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

7.3.5 Russia Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

7.3.6 Italy Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Gene-Edited Donor Animal Breeding System Market Size by Region

8.3.1 Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Region (2021-2032)

8.3.2 China Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8.3.3 Japan Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8.3.4 South Korea Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8.3.5 India Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

8.3.7 Australia Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2032)

9.2 South America Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2032)

9.3 South America Gene-Edited Donor Animal Breeding System Market Size by Country

9.3.1 South America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2032)

9.3.2 Brazil Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

9.3.3 Argentina Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2032)

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

10.3.1 Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2032)

10.3.2 Turkey Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

10.3.4 UAE Gene-Edited Donor Animal Breeding System Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Gene-Edited Donor Animal Breeding System Market Drivers

11.2 Gene-Edited Donor Animal Breeding System Market Restraints

11.3 Gene-Edited Donor Animal Breeding System Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Gene-Edited Donor Animal Breeding System Industry Chain

12.2 Gene-Edited Donor Animal Breeding System Upstream Analysis

12.3 Gene-Edited Donor Animal Breeding System Midstream Analysis

12.4 Gene-Edited Donor Animal Breeding System Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Gene-Edited Donor Animal Breeding System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Gene-Edited Donor Animal Breeding System Consumption Value by Gene Edit Package, (USD Million), 2021 & 2025 & 2032

Table 3. Global Gene-Edited Donor Animal Breeding System Consumption Value by Pathogen Control Grade, (USD Million), 2021 & 2025 & 2032

Table 4. Global Gene-Edited Donor Animal Breeding System Consumption Value by Delivery Mode, (USD Million), 2021 & 2025 & 2032

Table 5. Global Gene-Edited Donor Animal Breeding System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Global Gene-Edited Donor Animal Breeding System Consumption Value by Region (2021-2026) & (USD Million)

Table 7. Global Gene-Edited Donor Animal Breeding System Consumption Value by Region (2027-2032) & (USD Million)

Table 8. eGenesis Company Information, Head Office, and Major Competitors

Table 9. eGenesis Major Business

Table 10. eGenesis Gene-Edited Donor Animal Breeding System Product and Solutions

Table 11. eGenesis Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. eGenesis Recent Developments and Future Plans

Table 13. United Therapeutics / Revivicor Company Information, Head Office, and Major Competitors

Table 14. United Therapeutics / Revivicor Major Business

Table 15. United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Product and Solutions

Table 16. United Therapeutics / Revivicor Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. United Therapeutics / Revivicor Recent Developments and Future Plans

Table 18. Qihan Biotech Company Information, Head Office, and Major Competitors

Table 19. Qihan Biotech Major Business

Table 20. Qihan Biotech Gene-Edited Donor Animal Breeding System Product and Solutions

Table 21. Qihan Biotech Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. ClonOrgan Company Information, Head Office, and Major Competitors

Table 23. ClonOrgan Major Business

Table 24. ClonOrgan Gene-Edited Donor Animal Breeding System Product and Solutions

Table 25. ClonOrgan Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 26. ClonOrgan Recent Developments and Future Plans

Table 27. PorMedTec Company Information, Head Office, and Major Competitors

Table 28. PorMedTec Major Business

Table 29. PorMedTec Gene-Edited Donor Animal Breeding System Product and Solutions

Table 30. PorMedTec Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 31. PorMedTec Recent Developments and Future Plans

Table 32. Makana Therapeutics Company Information, Head Office, and Major Competitors

Table 33. Makana Therapeutics Major Business

Table 34. Makana Therapeutics Gene-Edited Donor Animal Breeding System Product and Solutions

Table 35. Makana Therapeutics Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 36. Makana Therapeutics Recent Developments and Future Plans

Table 37. XenoTherapeutics Company Information, Head Office, and Major Competitors

Table 38. XenoTherapeutics Major Business

Table 39. XenoTherapeutics Gene-Edited Donor Animal Breeding System Product and Solutions

Table 40. XenoTherapeutics Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 41. XenoTherapeutics Recent Developments and Future Plans

Table 42. XTransplant Company Information, Head Office, and Major Competitors

Table 43. XTransplant Major Business

Table 44. XTransplant Gene-Edited Donor Animal Breeding System Product and Solutions

Table 45. XTransplant Gene-Edited Donor Animal Breeding System Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 46. XTransplant Recent Developments and Future Plans

Table 47. Global Gene-Edited Donor Animal Breeding System Revenue (USD Million) by Players (2021-2026)

Table 48. Global Gene-Edited Donor Animal Breeding System Revenue Share by Players (2021-2026)

Table 49. Breakdown of Gene-Edited Donor Animal Breeding System by Company Type (Tier 1, Tier 2, and Tier 3)

Table 50. Market Position of Players in Gene-Edited Donor Animal Breeding System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 51. Head Office of Key Gene-Edited Donor Animal Breeding System Players

Table 52. Gene-Edited Donor Animal Breeding System Market: Company Product Type Footprint

Table 53. Gene-Edited Donor Animal Breeding System Market: Company Product Application Footprint

Table 54. Gene-Edited Donor Animal Breeding System New Market Entrants and Barriers to Market Entry

Table 55. Gene-Edited Donor Animal Breeding System Mergers, Acquisition, Agreements, and Collaborations

Table 56. Global Gene-Edited Donor Animal Breeding System Consumption Value (USD Million) by Type (2021-2026)

Table 57. Global Gene-Edited Donor Animal Breeding System Consumption Value Share by Type (2021-2026)

Table 58. Global Gene-Edited Donor Animal Breeding System Consumption Value Forecast by Type (2027-2032)

Table 59. Global Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026)

Table 60. Global Gene-Edited Donor Animal Breeding System Consumption Value Forecast by Application (2027-2032)

Table 61. North America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2026) & (USD Million)

Table 62. North America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2027-2032) & (USD Million)

Table 63. North America Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026) & (USD Million)

Table 64. North America Gene-Edited Donor Animal Breeding System Consumption Value by Application (2027-2032) & (USD Million)

Table 65. North America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2026) & (USD Million)

Table 66. North America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2027-2032) & (USD Million)

Table 67. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2026) & (USD Million)

Table 68. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Type (2027-2032) & (USD Million)

Table 69. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026) & (USD Million)

Table 70. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Application (2027-2032) & (USD Million)

Table 71. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2026) & (USD Million)

Table 72. Europe Gene-Edited Donor Animal Breeding System Consumption Value by Country (2027-2032) & (USD Million)

Table 73. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026) & (USD Million)

Table 76. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Application (2027-2032) & (USD Million)

Table 77. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value by Region (2027-2032) & (USD Million)

Table 79. South America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2026) & (USD Million)

Table 80. South America Gene-Edited Donor Animal Breeding System Consumption Value by Type (2027-2032) & (USD Million)

Table 81. South America Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026) & (USD Million)

Table 82. South America Gene-Edited Donor Animal Breeding System Consumption Value by Application (2027-2032) & (USD Million)

Table 83. South America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2021-2026) & (USD Million)

Table 84. South America Gene-Edited Donor Animal Breeding System Consumption Value by Country (2027-2032) & (USD Million)

Table 85. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Type (2021-2026) & (USD Million)

Table 86. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Type (2027-2032) & (USD Million)

Table 87. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value by Application (2021-2026) & (USD Million)

Table 88. Middle East & Africa Gene-Edited Donor Animal Breeding System

Consumption Value by Application (2027-2032) & (USD Million)

Table 89. Middle East & Africa Gene-Edited Donor Animal Breeding System

Consumption Value by Country (2021-2026) & (USD Million)

Table 90. Middle East & Africa Gene-Edited Donor Animal Breeding System

Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Global Key Players of Gene-Edited Donor Animal Breeding System Upstream
(Raw Materials)

Table 92. Global Gene-Edited Donor Animal Breeding System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Gene-Edited Donor Animal Breeding System Picture
- Figure 2. Global Gene-Edited Donor Animal Breeding System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type in 2025
- Figure 4. Kidney Donor Animal Breeding System
- Figure 5. Heart Donor Animal Breeding System
- Figure 6. Liver Donor Animal Breeding System
- Figure 7. Lung Donor Animal Breeding System
- Figure 8. Islet and Cell Donor Animal Breeding System
- Figure 9. Tissue Donor Animal Breeding System
- Figure 10. Global Gene-Edited Donor Animal Breeding System Consumption Value by Gene Edit Package, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Gene Edit Package in 2025
- Figure 12. Single-Gene Knockout Breeding System
- Figure 13. Triple-Knockout Breeding System
- Figure 14. Knockout and Human Transgene Breeding System
- Figure 15. PERV-Inactivated Multi-Edit Breeding System
- Figure 16. Custom Gene Edit Breeding System
- Figure 17. Global Gene-Edited Donor Animal Breeding System Consumption Value by Pathogen Control Grade, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Pathogen Control Grade in 2025
- Figure 19. Conventional Clean Breeding System
- Figure 20. SPF Breeding System
- Figure 21. DPF Breeding System
- Figure 22. Gnotobiotic Breeding System
- Figure 23. Clinical-Release Breeding System
- Figure 24. Global Gene-Edited Donor Animal Breeding System Consumption Value by Delivery Mode, (USD Million), 2021 & 2025 & 2032
- Figure 25. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Delivery Mode in 2025
- Figure 26. Turnkey Barrier Facility System
- Figure 27. Modular Breeding Suite System

- Figure 28. Contract Breeding Service System
- Figure 29. Donor Line Licensing System
- Figure 30. Joint Development Breeding Platform
- Figure 31. Global Gene-Edited Donor Animal Breeding System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 32. Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application in 2025
- Figure 33. Xenogeneic Kidney Transplantation Picture
- Figure 34. Xenogeneic Heart Transplantation Picture
- Figure 35. Xenogeneic Liver Support and Transplantation Picture
- Figure 36. Xenogeneic Lung Transplantation Picture
- Figure 37. Islet and Cell Therapy Picture
- Figure 38. Preclinical Safety and Compatibility Research Picture
- Figure 39. Global Gene-Edited Donor Animal Breeding System Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 40. Global Gene-Edited Donor Animal Breeding System Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 41. Global Market Gene-Edited Donor Animal Breeding System Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
- Figure 42. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Region (2021-2032)
- Figure 43. Global Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Region in 2025
- Figure 44. North America Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)
- Figure 45. Europe Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)
- Figure 46. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)
- Figure 47. South America Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)
- Figure 48. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)
- Figure 49. Company Three Recent Developments and Future Plans
- Figure 50. Global Gene-Edited Donor Animal Breeding System Revenue Share by Players in 2025
- Figure 51. Gene-Edited Donor Animal Breeding System Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025
- Figure 52. Market Share of Gene-Edited Donor Animal Breeding System by Player

Revenue in 2025

Figure 53. Top 3 Gene-Edited Donor Animal Breeding System Players Market Share in 2025

Figure 54. Top 6 Gene-Edited Donor Animal Breeding System Players Market Share in 2025

Figure 55. Global Gene-Edited Donor Animal Breeding System Consumption Value Share by Type (2021-2026)

Figure 56. Global Gene-Edited Donor Animal Breeding System Market Share Forecast by Type (2027-2032)

Figure 57. Global Gene-Edited Donor Animal Breeding System Consumption Value Share by Application (2021-2026)

Figure 58. Global Gene-Edited Donor Animal Breeding System Market Share Forecast by Application (2027-2032)

Figure 59. North America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type (2021-2032)

Figure 60. North America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2032)

Figure 61. North America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Country (2021-2032)

Figure 62. United States Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 63. Canada Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 64. Mexico Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 65. Europe Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type (2021-2032)

Figure 66. Europe Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2032)

Figure 67. Europe Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Country (2021-2032)

Figure 68. Germany Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 69. France Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 70. United Kingdom Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 71. Russia Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 72. Italy Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 73. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type (2021-2032)

Figure 74. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2032)

Figure 75. Asia-Pacific Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Region (2021-2032)

Figure 76. China Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 77. Japan Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 78. South Korea Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 79. India Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 80. Southeast Asia Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 81. Australia Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 82. South America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type (2021-2032)

Figure 83. South America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2032)

Figure 84. South America Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Country (2021-2032)

Figure 85. Brazil Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 86. Argentina Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 87. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Type (2021-2032)

Figure 88. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Application (2021-2032)

Figure 89. Middle East & Africa Gene-Edited Donor Animal Breeding System Consumption Value Market Share by Country (2021-2032)

Figure 90. Turkey Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 91. Saudi Arabia Gene-Edited Donor Animal Breeding System Consumption

Value (2021-2032) & (USD Million)

Figure 92. UAE Gene-Edited Donor Animal Breeding System Consumption Value (2021-2032) & (USD Million)

Figure 93. Gene-Edited Donor Animal Breeding System Market Drivers

Figure 94. Gene-Edited Donor Animal Breeding System Market Restraints

Figure 95. Gene-Edited Donor Animal Breeding System Market Trends

Figure 96. Porters Five Forces Analysis

Figure 97. Gene-Edited Donor Animal Breeding System Industrial Chain

Figure 98. Methodology

Figure 99. Research Process and Data Source

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