

Global Gene-Edited Donor Animal Breeding System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE145F73180FEN.html>

Date: August 2026

Pages: 108

Price: US\$ 4,480.00 (Single User License)

ID: GE145F73180FEN

Abstracts

The global Gene-Edited Donor Animal Breeding System market size is expected to reach \$ 629 million by 2032, rising at a market growth of 25.3% CAGR during the forecast period (2026-2032).

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

This report studies the global Gene-Edited Donor Animal Breeding System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gene-Edited Donor Animal Breeding System, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gene-Edited Donor Animal Breeding System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gene-Edited Donor Animal Breeding System total market, 2021-2032, (USD Million)

Global Gene-Edited Donor Animal Breeding System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Gene-Edited Donor Animal Breeding System total market, key domestic companies, and share, (USD Million)

Global Gene-Edited Donor Animal Breeding System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Gene-Edited Donor Animal Breeding System total market by Type, CAGR, 2021-2032, (USD Million)

Global Gene-Edited Donor Animal Breeding System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Gene-Edited Donor Animal Breeding System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gene-Edited Donor Animal Breeding System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gene-Edited Donor Animal Breeding System Market, 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

Global Gene-Edited Donor Animal Breeding System Market, 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

Global Gene-Edited Donor Animal Breeding System Market, Segmentation by Pathogen Control Grade:

Conventional Clean Breeding System

SPF Breeding System

DPF Breeding System

Gnotobiotic Breeding System

Clinical-Release Breeding System

Global Gene-Edited Donor Animal Breeding System Market, Segmentation by Delivery Mode:

Turnkey Barrier Facility System

Modular Breeding Suite System

Contract Breeding Service System

Donor Line Licensing System

Joint Development Breeding Platform

Global Gene-Edited Donor Animal Breeding System Market, 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

Companies Profiled:

eGenesis

United Therapeutics / Revivicor

Qihan Biotech

ClonOrgan

PorMedTec

Makana Therapeutics

XenoTherapeutics

XTransplant

Key Questions Answered

1. How big is the global Gene-Edited Donor Animal Breeding System market?
2. What is the demand of the global Gene-Edited Donor Animal Breeding System market?
3. What is the year over year growth of the global Gene-Edited Donor Animal Breeding System market?
4. What is the total value of the global Gene-Edited Donor Animal Breeding System market?
5. Who are the Major Players in the global Gene-Edited Donor Animal Breeding System market?
6. What are the growth factors driving the market demand?

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