

The GEM Collection

A TACONIC BIOSCIENCES REPOSITORY

Find your gene of interest in the GEM Collection - A genetic mouse repository offered by Taconic Biosciences.

Complex genetic manipulations, difficult for many labs to duplicate, are now found in a collection of Genetically Engineered Models (GEMs) offered by Taconic.

In collaboration with one of the world's largest pharmaceutical companies, Taconic now offers a growing collection of hundreds of proprietary Genetically Engineered Models exclusively to academic and/or non-profit research institutions.

Academic and/or non-profit researchers studying functional and translational genetics benefit from the GEM Collection, as these models allow analysis of gene function in the context of the whole animal. The GEM Collection provides resources to study the effects of both loss (KO, cKO) and gain (Tg, TTG) of gene function.

BENEFITS

- Live mice available within ~17 weeks from time of order (recovery from frozen sperm or embryos)
- Most lines are congenic on the C57BL/6NTac inbred background, which avoids time-consuming backcross steps
- Validated genotyping protocols are available for each line
- No license fees

Coupled with Taconic's core capability of Custom Breeding, the GEM Collection can provide academic and/or non-profit research labs with the animals they need to rapidly produce study data, without the additional work and cost of animal colony production and maintenance.

MODEL VALIDATION

These models have been carefully designed to obtain the optimal genetically engineered model for research. Having been validated by an industry leading pharmaceutical company, the GEM Collection allows academic and/or non-profit researchers to skip the 1+ year timeline of model generation and development and quickly begin their studies after obtaining an MTA.

This repository represents an opportunity for qualified scientists to access a large collection of models that have been developed from years of genetic research.

Collectively, research from these models will provide valuable information on gene function that can impact human health.

CURRENTLY AVAILABLE MODELS

- Constitutive (KO) Knock Out
- Conditional (cKO) Knock Out
- Transgenic (Tg) Overexpressing Lines
- Constitutive Targeted Transgenesis (TTG)
- Conditional Targeted Transgenesis (cTTG)

GETTING STARTED

Search: Visit [Taconic.com/find-your-model](https://www.taconic.com/find-your-model) to begin searching for your gene of interest.

View: Detailed allele diagrams for each line along with information about how it was generated.

Learn About: The terms of use, deliverables and timelines.



TO ORDER

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The GEM Collection

Take Your Research Further



GEMS DESIGN

Taconic Biosciences GEMs Design empowers our clients to develop research models specifically suited to the unique needs of their discovery and development studies or therapeutic programs.

- Gene Inactivation
- Gene Mutation or Replacement
- CRISPR Gene Editing
- Transgene Expression
- miRNA Expression
- Cohort Production Packages

PRECISION RESEARCH MODELS

Research organizations demand precision tools that better reflect human physiology. Taconic Biosciences leads the field delivering innovative solutions to meet these continually evolving needs. Our core competencies include the delivery of complex strategies that both integrate human genetic sequences and engraft human cells and tissues into custom mouse and rat models.

- Human Gene Replacement
- Human Cell and Tissue Engraftment

GEMS MANAGEMENT

Taconic's fully integrated GEMs Management brings innovative models from design to study-ready cohorts with unprecedented speed and transparency.

- Embryology
- Rapid Colony Expansion
- Contract Breeding
- Surgical Services
- Tissue Collection
- Genotyping and Molecular Analysis
- Microbiome and Germ-Free Research Models and Services

CHOOSE TACONIC

For more than 60 years, Taconic has anticipated the needs of the scientific community to deliver models and services that meet the diverse needs of biomedical and biopharmaceutical researchers.

Today that forward thinking and commitment to working collaboratively has resulted in a client-centric environment infused with a knowledge bank that allows you to select the optimum model for your study based on informed insight into the generation of genetically engineered mouse and rat models.

YOUR COLLABORATIVE PARTNER

As a full-service biosciences company, Taconic can help you acquire, test, develop, breed, cryopreserve, prepare, and distribute highly relevant research lines worldwide. Whether you require custom genetically engineered, cell or tissue engrafted models or traditional models, Taconic's scientists will partner with you to rapidly and efficiently deliver the highest quality models.

TALK TO A SCIENTIST

Our scientific teams are happy to meet and talk with you about the most efficient way to achieve your study goals. Working in partnership with clients the world over, our scientific teams offer expert advice that can help you speed up your research and reduce your overall costs.

TALK TO A REPRESENTATIVE

For general information, you can talk to a member of our customer service team. Our customer service team is here to help you make the right decisions and get the models you need fast. Contact us at info@taconic.com

VISIT TACONIC.COM

For more information on the entire Taconic portfolio of products and services designed to help further your research, visit Taconic.com

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