TACONIC

# Custom Rat Model Generation & Breeding

## GENERATE KNOCKOUT AND TRANSGENIC CUSTOM RAT MODELS FOR YOUR STUDY

Rats continue to be a popular animal model for the study of human disease especially in the areas of physiological and behavioural studies.

Custom rat CRISPR gene editing services from Taconic Biosciences enable clients to generate targeted genetic modifications that are not possible with traditional Pro-Nuclear Injection (PNI) methods allowing reduced timelines, lower costs, and improved efficiency. Taconic also offers PNI in rat embryos when over-expression of a gene is the desired outcome.

Whether your ideal rat model contains a point mutation, knockout, or small genetic modification, take advantage of Taconic's advanced CRISPR/Cas technology, licensed through patent holder the Broad Institute.

### INTEGRATED MODEL DESIGN & BREEDING SERVICES

- Receive Study Ready Models Faster
- Collaborative Project Design
- Scientific Program Management
- Dedicated Project Manager
- Industry Leading Project Reporting
- Integrated Breeding Services

### GEMS DESIGN EXPERIENCE

- 20+ years experience generating custom mouse models
- 2000+ custom models generated
- 2600+ pronuclear injections conducted
- 99+% of projects successfully delivered
- 95% customer satisfaction rate
- 60+ years of breeding experience

**TO ORDER**
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# 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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