

EXCLUSIVE



MOUSE MODEL GENERATION SERVICES

FOR INDIANA CLINICAL AND TRANSLATIONAL SCIENCES INSTITUTE (CTSI)

In support of the Indiana CTSI's goal to accelerate research, The Jackson Laboratory (JAX) is extending exclusive pricing to Indiana CTSI members at Indiana University, Purdue University and the University of Notre Dame.

JAX UTILIZES THE CRISPR/CAS9 SYSTEM

This technique enables genotype verified N1 mice to be produced in 6-9 months. JAX has generated more than 1,000 models on 75 different genetic backgrounds and can generate various models including:

- Constitutive and conditional knockouts
- Genetic humanization
- Targeted transgenics
- Reporter and TAG insertions

END TO END SUPPORT

JAX Study Directors work with you to understand project goals and determine feasibility. During the project you will receive regular updates. All projects evaluated as being feasible are backed with our "No risk" promise: if we can't generate the model, you will not be charged.

JAX STANDARD PROJECT PROCESS

WORK WITH THE WORLD LEADER
IN MOUSE MODEL GENERATION

- Determine Feasibility - Discuss your project goals with one of our Study Directors.
- Develop strategy.
- Determine the appropriate genetic background.
- Review strategy packet and approve the plan to generate your model.
- Reagent Preparation - JAX provides all required reagents so you don't have to.
- Founders are generated and screened for the mutation of interest.
- Review and discuss founder genotyping packet and animals selected to use for breeding.
- Breed founders to produce N1 animals.
- Genetically validated N1 animals ready for delivery or breeding at JAX.

Cryorecover one strain from our Repository to ensure it is ready to cross with your new model.
(OPTIONAL)



MODEL TYPE	TIMELINE (WEEKS)
Small Knockins <i>Point mutations</i>	27 - 31
Large Knockins	33 - 37
Gene Knockout <i>Deletion and Indel-mediated KO</i>	26 - 31
Conditional Knockout	33 - 37
Tool Development <i>Reporter and TAG insertions</i>	27 - 37

CRISPR LICENSES

All JAX models generated with the CRISPR/Cas9 technology are under limited use licenses from both The Broad Institute, Inc. and Caribou Biosciences, Inc.

ADDITIONAL SERVICES

Save time and effort when you opt for additional services, such as the rapid generation of large aged-matched cohorts of study-ready mutant mice.

Additional services include:

- Off-target effects analyses
- Breeding services to produce cohorts for further model characterization
- Rapid generation of large cohorts through our Speed Expansion Service and regular delivery via Dedicated Supply
- Cryopreservation of new CRISPR models
- Expression and phenotypic analyses
- Preclinical efficacy studies

FOR CONSIDERATION OF ADDITIONAL FUNDING FOR MOUSE MODEL GENERATION

Researchers, within the Indiana CTSI, can utilize the Project Development Team (PDT) program (indianactsi.org/pdt) for project review and consideration of an additional \$10,000 for mouse generation. Requests for support should be made via the PDT application process at the link above (please denote “Jackson Lab Initiative” in the “Referred to CTSI By” field on application form).

Expectations:

- If funding is awarded, the investigator should submit an external grant within 6 months of receiving the mouse.
- Investigator must share mouse with the CTSI consortium.

Additional components/discussion elements to include in project proposal:

- Relevance of mouse model to human disease.
- Why is the mouse model needed?

For additional information, please contact *Lane Coffee* at Indiana CTSI
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