A MODEL TO ACCELERATE CARCINOGENICITY TESTING STUDIES

The rasH2 Mouse*

* Developed by CIEA
The rasH2 Mouse*

When you perform traditional carcinogenicity testing over a two-year horizon, time and costs are not the only things you are adding to your protocol. You are also exposing your research to the risk of spontaneous tumor development in your models – a risk that can skew your findings.

THE TACONIC rasH2 MOUSE* OFFERS A BETTER ALTERNATIVE

Taconic rasH2 mice enable you to perform short-term carcinogenicity testing of compounds on a much faster time line – reducing the in-life portion of your study to 1/4 of a traditional two year study.

The use of rasH2 is approved by the FDA and the International Conference on Harmonisation (ICH) S1B Guideline 1. Faster testing means lower costs, quicker answers on your compounds, and a significantly lower risk of spontaneous tumors.

Like all of the models in our unique Taconic Transgenic Models portfolio, rasH2 mice are sold with full research use rights and are readily available in typical study quantities – enabling you to immediately begin using them in your research.

CARCINOGENICITY TESTING (IN WEEKS)

<table>
<thead>
<tr>
<th>ADMIN TYPE</th>
<th>CARCINOGEN</th>
<th>SHORT TERM</th>
<th>TRADITIONAL</th>
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</thead>
<tbody>
<tr>
<td>rasH2 MOUSE</td>
<td>26</td>
<td>Many Tumors</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cause of Cancer</td>
<td></td>
</tr>
<tr>
<td>Wild Type Mouse</td>
<td>26</td>
<td>No Tumors</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No Cancer</td>
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<td></td>
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<td>CAN EASILY</td>
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</tbody>
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CANCER SYMPTOMS FROM NONE TO TERMINAL

* Published by CIEA

TO ORDER
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The rasH2 Mouse*
ADVANTAGES OF THE rasH2 MOUSE

- **Shorter studies.** Using Taconic’s rasH2 mice, you can greatly reduce the in-life portion of your testing – cutting your study time by as much as 75 percent.
- **Lower study costs.** Taconic rasH2 mice reduce your total research costs through lower cage costs, less compound administration, and reduced labor costs.
- **Faster results.** Since Taconic’s rasH2 mice allow you to complete carcinogenicity studies in a fraction of the time, you obtain critical data and answers sooner.
- **More accurate results.** With no spontaneous tumor induction up to the age of 6 months, Taconic rasH2 mice reduce the incidence of false positives.
- **Availability of Historical Data.** A substantial amount of phenotypic background data is available for rasH2 mice. These data demonstrate the low incidences of spontaneous tumors and the robustness of the model in identifying carcinogens, providing a valuable reference for current and future carcinogenicity studies.

KEY APPLICATIONS

Taconic rasH2 mice provide a fast, cost-effective option for testing for mutagenic and non-mutagenic chemically-induced tumor formation.

HOW TACONIC’S rasH2 MOUSE WORKS

Taconic rasH2 mice carry the human c-Ha-ras oncogene in addition to the endogenous murine Ha-ras oncogene. The presence of the human c-Ha-ras gene makes hemizygous rasH2 mice highly susceptible to tumor development when exposed to compounds that cause cancer in humans.

REFERENCES


DISCUSS YOUR NEEDS

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The rasH2 Mouse®
THE rasH2 MOUSE*

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

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

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

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