STOCK Lats1<sup>tm1.1Jfm/RjoJ</sup>

Stock No: 024941

Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

3–6 week average lead time depending on quantity and age requests are not accepted

These Lats1<sup>tm1.1</sup> floxed mice may be useful for studying the role Lats1 in preventing the downregulation of cellular proliferation and organ growth by the Hippo pathway.

Donating Investigator

Randy L Johnson, M.D. Anderson Cancer Center

VIEW GENETICS

GENETIC OVERVIEW

Genetic Background

?+pN2F4
(2018-05-29 00:00:00)

Lats1<sup>tm1.1Jfm</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed))</td>
<td>Lats1</td>
<td>large tumor suppressor</td>
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</table>

VIEW ALL RESEARCH APPLICATIONS

RESEARCH APPLICATIONS

Cell Biology Research
Research Tools
Cancer Research

BASE PRICE
Starting at:
Details

Detailed Description

Lats1^{flx} floxed mice possess loxP sites flanking exon 4 of the large tumor suppressor (Lats1) gene. LATS1 is a serine/threonine-protein kinase involved in the regulation of the Hippo pathway. Hippo signaling pathway plays a role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 4 deleted in the cre-expressing tissues.

For example when these mice are bred to mice carrying a floxed-Lats2 allele (Stock No. 025428) and afterwards bred to B6.FVB(129)-Tg(Myh6-cre/Esr1^*)1Jmk/J mice (Stock No. 005657), tamoxifen-inducible Cre-expression results in Lats 1/2 deficient cardiomyocytes which exhibit enhanced heart regeneration and cardiomyocyte renewal.

Development

Control Suggestions

Genetics

Lats1^{tm1.1Jm}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR: Lats1^{tm1.1Jm}

Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation
When using the STOCK Line C57BL/6J-Tg(129S7-tdTomato<i>cre</i>/2J-2Zig<sup>_tm1</sup>Wbp1<sup>_tm1</sup>)Jax<sup>_tm1</sup>)<sup>_tm1</sup>Jax<sup>_tm1</sup>)<sup>_hm</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #026461 in your Materials and Methods section.

Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted

Repository Live

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Lats1&lt;sup&gt;_tm1&lt;/sup&gt;</td>
<td>$263.00</td>
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<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Homozygous for Lats1&lt;sup&gt;_tm1&lt;/sup&gt;</td>
<td>$263.00</td>
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</table>

Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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Terms of Use
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