B6.Cg-Rptor<sup>tm1.10msa</sup>/J

Stock No: 013188

- Congenic, Targeted Mutation

**Overview**

**Also Known As: Rap<sup>loxP</sup>**

These floxed mutant mice possess loxP sites flanking exon 6 of the targeted Rptor (regulatory associated protein of MTOR, complex 1) gene. This strain may be useful for studying mTOR-dependent regulation of ketogenesis and other cellular processes in response to feeding and fasting.

**Donating Investigator**

David Sabatini, Whitehead Institute
GENETIC OVERVIEW

**Genetic Background**: N5×N3F2
**Generation**: (2019-08-11 00:00:00)

**Rptor<sup>Im1.1Dmsa</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Rptor</td>
<td>regulatory associated protein of MTOR, complex 1</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Developmental Biology Research  
Research Tools

BASE PRICE

Starting at:

$255.00 Domestic price for female

Details

**Detailed Description**

These floxed mutant mice possess loxP sites flanking exon 6 of the targeted Rptor (regulatory associated protein of MTOR, complex 1) gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to C57BL6-Tg(AlbCre)21Mcg (Stock No. 003574) mice, which direct liver-specific expression of Cre, mice exhibit a decrease in liver size yet produce ketones for hours after feeding. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 6 deleted in the cre-expressing tissues. This strain may be useful for studying mTOR (mammalian or mechanistic target of rapamycin)-dependent regulation of ketogenesis and other cellular processes in response to feeding and fasting.

Development

Control Suggestions

Selected References
Genotyping Protocols
High Resolution Melting: Rptor<sup>Im1.10msa</sup>
Genotyping resources and troubleshooting

Dietary Information
LabDiet<sup>®</sup> 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using Rptor<sup>Im1.10msa</sup> /J mouse strain in a publication, please cite the originating article(s) and include JAX stock #013188 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX10 (Standard)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Rptor&lt;sup&gt;tm1.10msa&lt;/sup&gt;</td>
<td>$255.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Rptor&lt;sup&gt;tm1.10msa&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
</tbody>
</table>

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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