B6;129-Gt(ROSA)26Sor^{im1(rtTA*M2)Jae} Col1a1^{im2(tetO-Pou5f1)Jae}/J

Stock No: 006911 | Oct-4/rtTA (R26-M2rtTA;Col1a1-tet0-Oct4)

Targeted Mutation

REQUEST CRYORECOVERY

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Also Known As: Oct-4/rtTA (R26-M2rtTA;Col1a1-tet0-Oct4)

These "Oct-4/rtTA" mutant mice (R26-M2rtTA;Col1a1-tet0-Oct4) may be useful for studies of tumorigenesis and pluripotent stem cells.

Donating Investigator

Dr. Rudolf Jaenisch, Whitehead Institute (MIT)

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Col1a1^{im2(tetO-Pou5f1)Jae}</td>
<td></td>
</tr>
</tbody>
</table>

**Allele Type**
- Targeted (Inducible, Inserted expressed sequence, RMCE-ready)

**Gene Symbol**
- Col1a1

**Gene Name**
- collagen, type I, alpha 1

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gt(ROSA)26Sor^{im1(rtTA*M2)Jae}</td>
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**Allele Type**
- Targeted (Transactivator)

**Gene Symbol**
- Gt(ROSA)26Sor

**Gene Name**
- gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cancer Research
Cell Biology Research
Mice heterozygous for both targeted mutations (R26-rtTA and Col1a1:tetO-Oct4) are viable and fertile. These 'Oct-4/rtTA' mice express rtTA-M2, an optimized form of reverse tetracycline-controlled transactivator (rtTA) protein, in multiple tissues. In the absence of the tetracycline analog doxycycline (dox), Oct4 (Pou5f1) expression from the Col1a1 locus is not detected. Following dox administration, high Oct4 expression is induced in liver, bone marrow, stomach, intestine, and skin, with lower levels in the heart, lungs, kidney, spleen, and thymus; no expression was detected in the brain and testes. Dox-induced activation of Oct4 results in dysplasia in epithelial tissues. These mutant mice may be useful for studies of tumorigenesis and pluripotent cells.
Technical Support

Genotyping Protocols
Probe: Gt(rosa)26Sor<sup>tm1sor</sup> Probe
Separated MCA: Gt(ROSA)26Sor<sup>tm1sor</sup> STD
Standard PCR: Gt(ROSA)26Sor<sup>tm1sor</sup> STD
Standard PCR: Col1a1 3' UTR assay2 (flip-in)
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, mice that are heterozygous or homozygous for Gt(ROSA)26Sor<sup>tm1(rtTA*M2).Jae</sup> and heterozygous for Col1a1<sup>tm2(tet0-Pou5f1).Jae</sup> may be bred together.
Additional Breeding and Husbandry Support

Citation
When using the Gt(ROSA)26Sor<sup>tm1(rtTA*M2).Jae</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #006911 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>Service</th>
<th>Genotype</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Gt(ROSA)26Sor&lt;sup&gt;tm1(rtTA*M2).Jae&lt;/sup&gt;, Heterozygous or wildtype for Col1a1&lt;sup&gt;tm2(tet0-Pou5f1).Jae&lt;/sup&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.
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