FVB.12G6(Rosa)26Sor/J

Stock No: 006206 | ODD-Luc

Congenic, Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

Also Known As: ODD-Luc

These “ODD-Luc” bioluminescent reporter mice may be useful in researching transcriptional regulation of hypoxia-inducible genes, cancer, ischemia, cardiovascular, myocardial infarction, stroke, pharmacokinetics, or other studies where imaging/reporting the development of tissue hypoxia and the action of small molecule inhibitors of HIF prolyl hydroxylase activity are appropriate.

Donating Investigator

William G. Kaelin, Dana Farber Cancer Institute

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gt(ROSA)26Sortm2(HIF1A/luc)Kael</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter, Inserted expressed sequence, Humanized sequence)</td>
<td>Gt(ROSA)26Sor</td>
<td>gene trap ROSA 26, Philippe Soriano</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Internal/Organ Research
Cardiovascular Research

BASE PRICE
Starting at:
Mice heterozygous for this "ODD-luc" knock-in are viable and fertile with no gross phenotypic or behavioral abnormalities. These mice have the C-terminal portion of the hypoxia-inducible factor 1 alpha (HIF1A) oxygen-dependent degradation domain (ODD) fused to the firefly luciferase (luc) gene. This region of the ODD also contains a proline residue (amino acid 564) that, when hydroxylated, will serve as a binding site for von Hippel-Lindau tumor suppressor protein (pVHL). Under normal oxygen concentrations, prolyl hydroxylation by egg-laying-defective nine (EGLN) proteins leads to pVHL-dependent polyubiquitylation and proteasomal degradation (thus, little or no luciferase fluorescence). Under hypoxia, proline hydroxylation is impaired and ubiquitination is attenuated, resulting in stabilization of the fusion protein and high levels of luciferase fluorescence in the hypoxic tissue(s). These "ODD-Luc" bioluminescent reporter mice may be useful in researching transcriptional regulation of hypoxia-inducible genes, cancer, ischemia, cardiovascular, myocardial infarction, stroke, pharmacokinetics, or other studies where imaging/reporting the development of tissue hypoxia and the action of small molecule inhibitors of HIF prolyl hydroxylase activity are appropriate.
Genotyping Protocols
 Probe: Gt(ROSA)26Sor\textsuperscript{tm1(HIF1A/luc)Kael} Probe
 Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice may be bred as heterozygotes or homozygotes.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Citation
When using the ODD-Luc mouse strain in a publication, please cite the originating article(s) and include JAX stock #006206 in your Materials and Methods section.

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>Cryo Recovery</th>
<th>Heterozygous for Gt(ROSA)26Sor&lt;tm1(HIF1A/luc)Kael&gt;</th>
<th>$2,854.50</th>
</tr>
</thead>
</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.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

| Frozen Mouse Embryo | FVB.129S6-Gt(ROSA)26Sor<tm2(HIF1A/luc)Kael>/J Frozen Embryo | $2595.00 |

Payment Terms and Conditions
Additional Use Restrictions Apply

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All

By Allele

By Gene

By Collection

All Related Strains

▲

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