



Oprm1 knockout rat

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|--------------|-------------------------------------|
| Model | Oprm1 knockout rat |
| Strain | HsdSage:SD-Oprm1 ^{tm1Sage} |
| Location | U.S. |
| Availability | Cryopreserved |

Characteristics/husbandry

- + 11 base pair deletion in exon 2
- + Early stop codon in exon 3
- + Background strain: Sprague Dawley

Zygoty genotype

- + Cryopreserved as heterozygous embryos

Research use

- + Nociception
- + Pain
- + Analgesia
- + Addiction

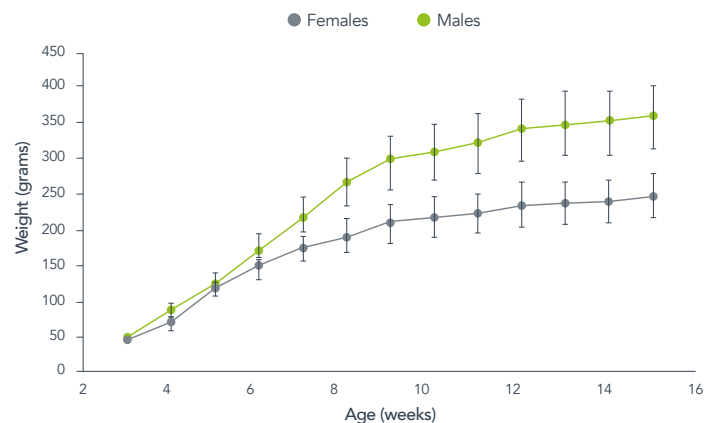
Origin

The Oprm1 KO rat model was originally created at SAGE Labs, Inc. in St. Louis, MO and distributed out of the Boyertown, PA facility. The line continues to be maintained through the original SAGE Labs animal inventory acquired by Envigo.

Description

This model possesses an 11 base pair deletion in exon 2 of the Oprm1 gene, leading to an early stop codon in exon 3. Oprm1 encodes the mu opioid receptor 1 (MOR), the major target of most clinically used opioids. This model is useful for applications investigating nociception, and is particularly useful for discrimination among opioid receptor subtypes.

Figure 1: Age and weight chart



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