These mice carry a cesium irradiation-induced mutation characterized by chronic polyuria, increased serum BUN and creatinine levels, and hydronephrosis.

**GENETIC OVERVIEW**

**Genetic Background**

**Generation**

- **Uox**
  - **Allele Type**: Radiation induced
  - **Gene Symbol**: Uox
  - **Gene Name**: urate oxidase

**Marker(s)**

- **Marker Symbol**: In(3)55Rk-d, In(3)55Rk-p
- **Marker Name**: inversion, Chr 3, Roderick 55, distal, inversion, Chr 3, Roderick 55, proximal

**RESEARCH APPLICATIONS**

- Internal/Organ Research
- Developmental Biology Research

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

Detailed Description

The \( Uox^{in} \) homozygous phenotype has incomplete penetrance. While 63% of \( Uox^{in} \) homozygotes die by 12-14 days of age, those that live to adulthood generally live a normal breeding life span. Homozygous adults display chronic polyuria, increased serum BUN and creatinine levels, and hydronephrosis with a concomitant inflammatory response that is followed by glomerular and tubular dilation. (Cook et al., 2001.)

Control Suggestions

Selected References

Genetics

\( Uox^{in} \)

\( \text{In}(3)^{55Rk-d} \)

\( \text{In}(3)^{55Rk-p} \)

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
brown
Related Genotype: a/a Tyrp1<sup>b</sup> /Tyrp1<sup>b</sup>

black
Related Genotype: a/a Tyrp1<sup>b</sup> /+ or a/a +/+ 

Citation
When using the B6;D2-In(3)55Rk Uox<sup>in</sup> /J mouse strain in a publication, please cite the originating article(s) and include JAX stock #001378 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/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for In(3)55Rk</td>
<td>$2,854.50</td>
</tr>
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</table>

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains