Overview

Also Known As: UPK II-Cre

These UPK II-Cre transgenic mice have the mouse uroplakin 2 (Upk2) gene promoter driving Cre recombinase expression in the bladder urothelium. These mice may be useful for Cre-lox studies of urothelium function and cancers of the bladder.
### Donating Investigator

Raghu Kalluri, University of Texas MD Anderson Cancer Center  
Warren Hill, Beth Israel Deaconess Medical Center and Harvard Medical School

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Upk2-cre)1Rkl</td>
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**Allele Type**  
Transgenic (Recombinase-expressing)

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### Research Tools

Cancer Research

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### Starting at:

$2,854.50 Domestic price Cryo Recovery

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### Details

**Detailed Description**

Uroplakin 2, encoded by the Upk2 gene, is part of the urothelial apical plaque, or asymmetric unit membrane of the bladder epithelium, and can be detected in the peripheral blood of patients with transitional cell carcinomas. These transgenic mice express Cre recombinase under the control of the mouse uroplakin 2 (Upk2) gene promoter. When crossed with with Rosa-R26R-YFP reporter mice, Cre recombinase activity is detected in the urothelium of the bladder and ureter.

During backcrossing, the Y chromosome may not have been fixed to the C57BL/6J genetic background. Hemizygotes are viable and fertile. The Donating Investigator has not attempted to make the strain homozygous. Homozygous...
viability/fertility has not been tested (August, 2016).

- **Development**

- **Expression Data**

- **Control Suggestions**

- **Selected References**

- **Genetics**

  - **Tg(Upk2-cre)1Rkl**

- **Disease/Phenotype**

  - **Disease Terms**

- **Research Areas By Genotype**

- **Mammalian Phenotype Terms by Genotype**

- **References**

- **Technical Support**

  - CONTACT TECHNICAL SUPPORT

**Genotyping Protocols**
Standard PCR: Tg(Upk2-cre)1Rkl
Genotyping resources and troubleshooting

**Breeding Considerations**
When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. 000664). The Donating Investigator has not attempted to make the strain homozygous. Homozygous viability/fertility has not been tested (August, 2016).

Additional Breeding and Husbandry Support

**Citation**
When using the UPRK 6 Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #029281 in your

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.

### Domestic

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non carrier for Tg(Upk2-cre)1Rkl</td>
<td>$2,854.50</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.

Cryo recovery 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 | B6(129)-Tg(Upk2-cre)1Rkl/WghJ Frozen Embryo | $2595.00 |

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Terms of Use

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Email: TechTran@jax.org

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All

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