B6.129P2(Cg)-Pax8^{tm1.1(cre)Mbu}/J

Stock No: 028196 | Pax8^{cre}

Congenic, Targeted Mutation

PLACE ORDER

3-6 week lead time for most orders depending on quantity and age range requested

Also Known As: Pax8^{cre}

This Pax8^{cre} knockin strain may be useful for generating conditional mutations for studying kidney and thyroid development.

Donating Investigator

Meinrad Busslinger, Research Institute of Molecular Pathology (IMP)

READ MORE +

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>?^pN2F5</td>
</tr>
<tr>
<td></td>
<td>(2018-07-27 00:00:00)</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Pax8</td>
<td>paired box 8</td>
</tr>
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</table>

VIEW GENETICS

Research Tools
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

Starting at:
The PAX8 transcription factor is important in kidney and thyroid follicular cell development. Mice that are heterozygous for the targeted mutation are viable and fertile. Homozygotes exhibit a postnatal lethal phenotype. Cre activity is similar to the wildtype gene expression pattern and is detected in the inner ear by E16.5; the brain beginning at E9.5; the mesonephros starting at approximately E9.5; geniculate ganglia at E10.5; thyroid gland, vestibulocochlear nerve, epididymis, and adrenal gland at E15.5. During backcrossing, the Y chromosome may not have been fixed to the C57BL/6J genetic background.
Genotyping Protocols
SEPARETED MELT: Pax8<sup>tm1.1(cre)Mbu</sup>
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. 000664). Homozygotes are not viable.
Additional Breeding and Husbandry Support

Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the Pax8<sup>Cre</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #028196 in your Materials and Methods section.

Facility Barrier Level Descriptions
AX12 (Maximum)

 guarda Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested

Repository Live

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Heterozygous for Pax8&lt;sup&gt;tm1.1(cre)Mbu&lt;/sup&gt;</td>
<td>$263.00</td>
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<tr>
<td>Approx 4-8 weeks</td>
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</tr>
<tr>
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</tbody>
</table>

### Breeder Pair

<table>
<thead>
<tr>
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<tbody>
<tr>
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Email: TechTran@jax.org

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