This model of achromatopsia has cone photoreceptor cell degeneration and loss of cone-mediated responses beginning by 3 weeks of age, but the rod cells and rod-mediated responses remain normal.
**Gene Symbol**
Pde6c

**Gene Name**
phosphodiesterase 6C, cGMP specific, cone, alpha prime

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**RESEARCH APPLICATIONS**
Sensorineural Research

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**BASE PRICE**
Starting at:
$183.21 Domestic price for female

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**Details**

**Detailed Description**
As early as 3 weeks of age electroretinograms show no cone-mediated responses, although rod-mediated responses are normal. There is normal retina structure but as early as 3 weeks of age vacuolization of a small subset of cells in the photoreceptor layer is found and cone photoreceptor cell degeneration becomes extensive such that very few cone cells can be found at 5 months of age. This mutant is a model for achromatopsia.

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**Development**

**Control Suggestions**

**Selected References**

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**Genetics**

**Pde6c<sup>cpfl1</sup>**

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**Disease/Phenotype**
Genotyping Protocols
Genotyping resources and troubleshooting

Mating System
Homozygote x Homozygote

Citation
When using the B6.CXB1-Pde6c<sup>cpfl1</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003678 in your Materials and Methods section.

Pricing & Availability

<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>Homozygous for Pde6c&lt;sup&gt;cpfl1&lt;/sup&gt;</td>
<td>$183.21</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Pde6c&lt;sup&gt;cpfl1&lt;/sup&gt;</td>
<td>$183.21</td>
</tr>
</tbody>
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