Also Known As: Velvet

This ENU induced mutation causes lethality in homozygous embryos by day E13.5, and heterozygous mice exhibit eye defects and curly vibrissae.

Donating Investigator
Bruce Beutler, University of Texas Southwestern Medical
**GENETIC OVERVIEW**

Genetic Background | Generation
---|---

**Egfr^Vel**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemically induced (ENU) (Not Applicable)</td>
<td><em>Egfr</em></td>
<td>epidermal growth factor receptor</td>
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</table>

**RESEARCH APPLICATIONS**

Sensorineural Research
Developmental Biology Research
Dermatology Research

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

**Details**

Mice homozygous for this mutation have an embryonic lethal phenotype, failing to develop past embryonic days 13.5. Heterozygous mice are viable, fertile, do not display any behavioral abnormalities and are born with open eyelids and curly vibrissae. Adult heterozygotes often have small eyes and corneal opacity with excessive secretions at the eyelid edges. MEFs (mouse embryonic fibroblasts) exhibit reduced migratory ability, approximately 53% of wildtype controls. Histological analysis of homozygous E12.5 embryos reveals placental defects. This mutant mouse strain may be useful in studies of development and as a visible dominant marker for the *Egfr* allelic series.
Breeding Considerations
When maintaining a live colony, these mice are bred as heterozygotes. Homozygotes have an embryonic lethal phenotype.

Additional Breeding and Husbandry Support

Citation
When using the Velvet mouse strain in a publication, please cite the originating article(s) and include JAX stock #006926 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.
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. Cryorecovery 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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>C57BL/6J-Egfr&lt;Vel&gt;/J Frozen Embryo</td>
<td>$2595.00</td>
</tr>
</tbody>
</table>

Cryo Recovery
Heterozygous or Wild-Type for Egfr<Vel>

$2,854.50

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Phone: 207-288-6470
Email: TechTran@jax.org

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By Allele

By Gene

By Collection

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