Mice homozygous for the E2f1 knock-out show thymocyte maturation defects due to a failure of apoptosis, eventually resulting in increased proliferation and increased tumorigenesis. These mice may be useful in studies of apoptosis, cancer, thymocyte development/selection, diabetes, autoimmunity, and multiple sclerosis.

Donating Investigator

Dr. Michael E. Greenberg, Harvard Medical School
Mice homozygous for defective \textit{E2f1} are viable and fertile. They show thymocyte maturation defects due to a failure of apoptosis, eventually resulting in increased proliferation and increased tumorigenesis. As mutant mice age, they show exocrine gland dysplasia and testicular atrophy. Mutant mice develop a broad spectrum of cancers, although mammary carcinomas were not observed on this genetic background. Mutant mice are also protected from experimental autoimmune encephalomyelitis (EAE). These mice may be useful in studies of apoptosis, cancer, thymocyte development/selection, diabetes, autoimmunity, and multiple sclerosis.
Genotyping Protocols
Standard PCR: E2f1
Genotyping resources and troubleshooting

Breeding Considerations
This strain is currently on a mixed C57BL/6 x 129 genetic backgrounds. Litter sizes are reported to be 5-6 pups for these mixed background mice. Homozygotes viable and fertile. Expected coat color from breeding: White Bellied Agouti

Additional Breeding and Husbandry Support

Appearance
white-bellied agouti
Related Genotype: A^w/A^w
Citation
When using the E2F-1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002785 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>
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<tr>
<td>Cryo Recovery</td>
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Related Products and Services

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<tr>
<th>Product</th>
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<tr>
<td>Frozen Mouse Embryo</td>
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<td>$2595.00</td>
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Email: TechTran@jax.org

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