This strain is currently unavailable due to replenishing of cryopreserved stocks — Please Register Interest.

These mice express Cre recombinase under the control of the human bestrophin 1 (BEST) promoter. This strain represents an effective tool for generating retinal pigment epithelium (RPE) specific-targeted mutants that would be useful in studies of human retinopathies.

Donating Investigator
Joshua L. Dunaief, University of Pennsylvania

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(BEST1-cre)1Jdun</td>
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Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs
Research Tools
Sensorineural Research
Developmental Biology Research

Please contact Technical Support for more information.
These mice express Cre recombinase under the control of the human bestrophin 1 (BEST) promoter. Mosaic Cre recombinase expression (mRNA) is seen in 50-90% of retinal pigment epithelium (RPE) cells, with some expression seen in the testis. When crossed with a strain containing a loxP site-flanked sequence, Cre-mediated recombination results in deletion of the flanked sequence in RPE cells. Homozygotes are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This strain represents an effective tool for generating RPE specific-targeted mutants that would be useful in studies of human retinopathies.

For example, when bred to a strain expressing a floxed-Dicer1 gene (see Dicer1<sup>tm1Bdh</sup> Stock No. 006366 for example), this mutant mouse strain may be useful for studying age-related macular degeneration.
Genotyping Protocols
Probe: Generic Cre Probe
Standard PCR: Tg(BEST1-cre)1Jdun
Separated PCR: Tg(BEST1-cre)1Jdun

Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation

When using the C57BL/6-Tg(BEST1-cre)1Jdun/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #017557 in your Materials and Methods section.

STRAIN INTEREST REGISTRATION

Please fill out the form below to indicate your interest in purchasing this JAX®Mice strain. This information helps us manage the colony build and better meet the broad needs of the research community. Please send any technical questions to Technical Support.

Contact Information

First Name

Last Name

Institution

Phone Number

Email

Interest

Please indicate your approximate levels of interest. You can add another line by selecting "Add More Interest".
Number of Mice
Frequency
Product
Comment
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains