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
Details

Detailed Description

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.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(BEST1-cre)1Jdun

Disease/Phenotype
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.

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Last Name

Institution

Phone Number

Email

Interest
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