B6.FVB-Tg(Per1-Venus)330br/Mmjax

MMRRC Stock No: 32820-JAX

Also Known As: B6;FVB-Tg(Per1-Venus)330br/Mmjax

These clock fluorescent reporter (mPeriod1-Venus) mutant mice have widespread expression in multiple brain regions paralleling Per1 expression and recapitulating Per1 rhythmic and light-inducible expression in the SCN. This mutant mouse strain may be useful for in vivo imaging to monitor circadian clock timing.

Donating Investigator
Karl Obrietan, Ohio State University

GENETIC OVERVIEW

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<th>Genetic Background</th>
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<td>Tg(Per1-Venus)330br</td>
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Allele Type
Transgenic (Reporter)

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools

Details
Detailed Description

Mice that are hemizygous for the clock fluorescent reporter transgene are viable and fertile, normal in size and do not display any gross physical or behavioral abnormalities. The mPeriod1-Venus transgene has widespread expression in multiple brain regions (high expression in: suprachiasmatic nuclei (SCN), Purkinje cells, cerebellum, cerebral cortex and hippocampus) and parallels Per1 expression. In addition, the transgene recapitulates Per1 rhythmic and light-inducible expression in the SCN. This mutant mouse strain may be useful for in vivo imaging to monitor circadian clock timing.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Per1-Venus)330br

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR: Tg(Per1-Venus)
Genotyping resources and troubleshooting

Breeding Considerations

While maintaining a live colony, these mice are bred as hemizygotes. The donating investigator has not tried to maintain this as a homozygote colony.
Additional Breeding and Husbandry Support
Citation
When using the B6.FVB.Tg(Pet1-Venus)330br/Mmjax mouse strain in a publication, please cite the originating article(s) and include MMRR stock #32820 in your Materials and Methods section.

Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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Related Strains

- All
- By Allele
- By Gene
- By Collection

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