

CB6-Tg(Tyr-TAg)BJJw/Mmjax

MMRRC Stock No: 32032-JAX

 Transgenic

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retinal tumors. These mice may be useful for studying pigmented intraocular tumor development and progression, and they provide a stable model for the study of human melanoma morphology and therapies.

### Donating Investigator

Daniel M. Albert, University of Wisconsin

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(Tyr-TAg)BJJw

#### Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

## Details

### Detailed Description

Mice hemizygous for the *Tyr-TAg* allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Expression of *Tag* is regulated by the mouse tyrosinase gene (*tyr*) which leads to pigmented intraocular tumors in the absence of primary cutaneous tumors. These tumors develop from the retinal epithelium, closely resembling human choroidal melanoma. *Tyr-TAg* mice develop retinal tumors by 8 weeks of age, with choroidal invasion by 20 weeks. These mice may be useful for studying pigmented intraocular tumor development and progression, and they provide a stable model for the study of human melanoma morphology and therapies.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(Tyr-TAg)BJw

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

## Genotyping Protocols

Standard PCR: [Generic SV40 Alternate1](#)  
[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to CB6F1/J hybrid mice. The donating investigator reports always breeding hemizygous mice to CB6F1 mice.

[Additional Breeding and Husbandry Support](#)

### Mating System

See "Breeding Considerations"

## Citation

When using the CB6-Tg(Tyr-TAg)BJw/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32032 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](#)*

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## LICENSING INFORMATION

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