

CB6-Tg(Rbp3-SV40)IT-2Jjw/Mmjax

MMRRC Stock No: 32030-JAX

 Transgenic

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exophthalmia. These mice may be useful for studying heritable ocular tumors of photoreceptor cell origin and pineal tumors associated with retinoblastoma.

Donating Investigator

Daniel M. Albert, University of Wisconsin

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(Rbp3-SV40)IT-2Jjw

Alele Type

Transgenic (Inserted expressed sequence)

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs

Sensorineural Research

Developmental Biology Research

Research Tools

V I E W A L L R E S E A R C H A P P L I C A T I O N S

Details

Detailed Description

Mice hemizygous for the *IRBP-Tag* allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Expression of *Tag* is regulated by a murine interstitial retinol binding protein (IRBP) promoter (*rbp3*), which leads to expression of *Tag* in photoreceptor cells of the developing retina before their terminal differentiation. This expression results in hereditary retinoblastomas and pineal tumors arising from photoreceptor cells and pinealocytes, which may share a common evolutionary ancestor with retinal cells. *IRBP-Tag* mice develop narrowed ocular fissures by 3 to 4 weeks of age, and exophthalmia by 8 weeks of age. The pineal gland is enlarged by 5 to 6 weeks of age, and is no longer intact by 8 to 10 weeks of age when the tumor covers and invades the cerebral and cerebellar hemispheres. These mice may be useful for studying heritable ocular tumors of photoreceptor cell origin and pineal tumors associated with retinoblastoma.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Rbp3-SV40)IT-2Jjw

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

[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(Rbp3-SV40)IT-2Jjw/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32030 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

☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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