

STOCK *Itp3*^{tm1.1Rmnc} /Mmjax
MMRRC Stock No: 32884-JAX | IP3R3^{tm1(tauGFP)}

Targeted Mutation

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In this knockin strain tauGFP replaces exon 1; expression of tauGFP is controlled by *Itp3* regulatory elements and is directed to microvillous cells in the olfactory epithelium. This mutant mouse strain may be useful in studies of taste transduction.

Donating Investigator

Diego Restrepo, UCDHSC at Fitzsimons

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GENETIC OVERVIEW

Genetic Background

Generation

Itp3^{tm1.1Rmnc}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

Itp3

Gene Name

inositol 1,4,5-triphosphate receptor 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Homozygotes: Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Expression of the microtubule-associated protein tau/Green Fluorescent Protein fusion gene, "tauGFP" is controlled by *Itpr3* regulatory elements. GFP expression is directed to microvillous cells in the olfactory epithelium. This mutant mouse strain may be useful in studies of taste transduction.

Heterozygote: Heterozygote phenotype is expected to be similar to homozygote phenotype.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Itpr3^{tm1.1Rmnc}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Separated PCR: [Itpr3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the IP3R3^{tm1(tauGFP)} mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32884 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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