

**B6N.129-*Rnf103*<sup>tm1.1Thg</sup>/Mmjax**

MMRRC Stock No: **32048-JAX**

 Congenic, Targeted Mutation

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studies of anxiety and depression.

### Donating Investigator

Tam Hashimoto-Gotoh, Kyoto Prefecture, Univ of Med

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## GENETIC OVERVIEW

Genetic Background

Generation

*Rnf103*<sup>tm1.1Thg</sup>

**Allele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Rnf103*

ring finger protein 103

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## Details

### Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical abnormalities. Homozygous mice exhibit enhanced anxiety-related behaviors including decreased light/dark transitions, reduced stay time in light, and decreased number of entries to the center and total distance traveled in the elevated plus maze. Although mice do not exhibit despair-like behavior, additional behavioral tests indicate increased wire-hanging time, enhanced freezing with foot shock and a reduced startle reflex. This mutant mouse strain may be useful in studies of anxiety and depression.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Rnf103<sup>tm1.1Thg</sup>*

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

## Genotyping Protocols

Separated PCR:[011142 - B6N.129-Rnf103/Mmjax](#)

[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 B6N.129-*Rnf103*<sup>tm1.1Thg</sup>/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #32048 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](#)*

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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