

**B6.Cg-Tpo<sup>tee-2J</sup> H2<sup>g7</sup> /GrsrJ**  
Stock No: **007852**

 Major Histocompatibility Congenic, Spontaneous Mutation

Please contact Technical Support for more information

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This thyroid peroxidase mutant is useful for studies related to thyroid hormone and thyroid function. Homozygotes have dysplastic thyroid glands, severe proportional dwarfing, and delayed cochlear development with severe hearing deficit due to a lack of thyroid hormone production.

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## GENETIC OVERVIEW

Genetic Background

Generation

*Tpo<sup>tee-2J</sup>*

**Alele Type**

Spontaneous

**Gene Symbol**

*Tpo*

**Gene Name**

thyroid peroxidase

VIEW GENETICS

## RESEARCH APPLICATIONS

Metabolism Research  
Endocrine Deficiency Research  
Developmental Biology Research  
Internal/Organ Research  
Sensorineural Research  
Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIONS

## Details

### Detailed Description

Mice homozygous for the teeny 2 Jackson mutation are proportional dwarfs, distinctly smaller than their heterozygous siblings. This is evident by one week of age. These mutants are severely hypothyroid with undetectable levels of T4 at 5 to 8 weeks of age. The thyroid glands are dysplastic with poorly developed follicles and hyperproliferation of epithelial cells. Although no defects have been found in the eyes, these mutants have highly elevated ABR thresholds at 4 weeks of age, the earliest age assessed, indicative of severe hearing impairment. The cochlear development is delayed and, although the cochlea resembles a normal cochlea by 1 month of age, the tectorial membrane remains abnormally thickened. Homozygotes fail to breed.

### Development

### Selected References

## Genetics

### *Tpo*<sup>teeny-2J</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

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## LICENSING INFORMATION

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