Overview

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

\texttt{\textit{Tpo}^{tee-2J}}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR: \texttt{Tpo} 

Genotyping resources and troubleshooting

Breeding Considerations

Because homozygotes do not breed this strain is maintained by sibling intercrossing heterozygotes.

\textbf{Additional Breeding and Husbandry Support}

\textbf{Mating System}

Heterozygote x Heterozygote

\textbf{Citation}

When using the C3.B6(NOD)-\texttt{Tpo}^{tee-2J}/Kjn mouse strain in a publication, please cite the originating article(s) and include JAX stock #023018 in your Materials and Methods section.

\textbf{Animal Health Reports}

\textbf{Facility Barrier Level Descriptions}

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

\texttt{Cryo Recovery}

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
## Related Products and Services

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>C3.B6(NOD)-Tpo&lt;tee-2J&gt;/Kjn</td>
<td>$2595.00</td>
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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.

### Questions About Terms Of Use

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Phone: 207-288-6470  
Email: TechTran@jax.org

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All

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