This strain has been discontinued. Please see Stock No. 026224.

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.
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.
Genotyping Protocols
Standard PCR: \text{Tpo}
Genotyping resources and troubleshooting
Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

No Liability
In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.

MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and regulations.

The foregoing represents the General Terms and Conditions applicable to JACKSON’s MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors. Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.

Related Strains

All

By Allele

By Gene

By Collection

All Related Strains