The hypothyroid 3 Jackson spontaneous deletion provides a model for type 1 congenital nongoitrous hypothyroidism, with less impairment of fertility than that reported for other Tshr alleles.
Hypothyroid 3 Jackson homozygotes, like other thyroid stimulating hormone receptor mutants, are proportional dwarfs, approximately half the size of normal littermates. They are particularly fragile at around three weeks of age and many die at that time. Those that survive through wean age usually survive to adulthood and live a relatively normal lifespan, although there is some premature death in the adult population of homozygotes. On this background both male and female homozygotes have successfully bred with BALB/cByJ, with approximately half of the pairs set up producing litters, and the number of pups per litter was nearly normal. Heterozygous intercrosses produce fewer than the expected 25% homozygotes, indicative of some prenatal death.
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the CByJ;CXB10-Tshr^{hyt-3J}/Grsr.J mouse strain in a publication, please cite the originating article(s) and include JAX stock #025735 in your Materials and Methods section.

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

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