The inbred strain LT carries the spontaneous coat color mutation light (Tyrp1). Females exhibit oocyte metaphase I arrest (a result of prolonged spindle assembly checkpoint activity), parthenogenesis, embryonic triploidy and ovarian teratomas.

Donating Investigator
Eva Eicher, The Jackson Laboratory

GENETIC OVERVIEW

Genetic Background
Generation

RESEARCH APPLICATIONS

Cancer Research
Reproductive Biology Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
LT is an inbred strain derived from a C58 mouse, which was outcrossed to BALB/c. LT carries the spontaneous coat color mutation light (B-lt), an arginine to cysteine substitution in tyrosinase-related protein 1 (Tyrp1). LT mice are characterized by a white hair shaft, brown hair tips and pigment dispersion in the iris of the eye. Approximately half of all females develop ovarian teratomas. Poor reproductive success in LT females is attributable to abnormalities in oocyte meiotic cell-cycle (specifically in the spindle assembly checkpoint), spontaneous parthenogenetic activation of oocytes, and the occasional occurrence of digynic triploidy.
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations

This strain is susceptible to kidney disease and the females are prone to ovarian teratomas. Replace breeder pair after their fourth litter.

Additional Breeding and Husbandry Support

Appearance
grey-brown
Related Genotype: Tyrp1B-lt/Tyrp1B-lt a/a

Citation
When using the LT/SvEiJ mouse strain in a publication, please include JAX stock #006252 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

Pricing & Availability

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

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PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.
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.