Overview

Also Known As: thin hair with small size

This spontaneous mutation provides a model for systemic lupus erythematosus, with females developing significant splenomegaly, lymphadenopathy, autoantibodies, including anti-nuclear antibodies and anti-dsDNA antibodies, and deposits in the kidney glomeruli. The T cells display an activated CD69+ phenotype, there are increased numbers of germinal center B cells and plasma cells, and the peripheral B cells are significantly expanded with high levels of secreted TNFSF13B.
This spontaneous point mutation is predicted to cause a premature stop codon at residue 46 of the 503 amino acid PLD4 protein. Male and female homozygotes are smaller than normal by 1 week of age and this worsens with age, with some homozygotes becoming hunched, but both males and females are reported to be fertile. The coat comes in sparse and fails to fill in even in the adult. PLD4 is a susceptibility locus for rheumatoid arthritis and systemic lupus erythematosus. Homozygous females have been reported to provide a model for systemic lupus erythematosus, with females developing significant splenomegaly, lymphadenopathy, autoantibodies, including anti-nuclear antibodies and anti-dsDNA antibodies, and deposits in the kidney glomeruli. The T cells display an activated CD69+ phenotype, there are increased numbers of germinal center B cells and plasma cells, and the peripheral B cells are significantly expanded with high levels of secreted TNFSF13B.
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the thin hair with small size mouse strain in a publication, please cite the originating article(s) and include JAX stock #012624 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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<th>SERVICE/PRODUCT</th>
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<td>Cryo Recovery</td>
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