**Overview**

This colony is currently unavailable and we are unable to determine when it will be distributed in the future. As we have more information, we will provide updates here.

The wild-derived inbred strain SPRET/Ei is often used in crosses with common inbred strains to create highly polymorphic panels for genetic mapping. SPRET/Ei may be useful for studies relating to inflammatory disorders.

**GENETIC OVERVIEW**

Genetic Background: Inbred Strain, Wild-Derived

Generation: F106

(2018-07-30 00:00:00)

**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research
Research Tools
Reproductive Biology Research
Metabolism Research

*VIEW ALL RESEARCH APPLICATIONS*
The wild-derived inbred strain SPRET/Ei is often used in crosses with common inbred strains to create highly polymorphic panels for genetic mapping. SPRET/Ei mice are resistant to high doses of tumor necrosis factor alpha (TNFa) (Staelens et al 2002). Mice from a C57BL/6 x SPRET/Ei F1 cross were protected from TNFa-induced arthritis and partially protected against induced allergic asthma (Staelens et al 2004). SPRET/Ei may be useful in understanding certain inflammatory diseases.

This inbred strain has a nonsense mutation in *Trem2* affecting codon 148 (dbSNP ID: rs107649577 [Ensembl GRCm38.p6]).
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
Subsequent to a severe breeding slump in 2015 this strain was moved onto grain with 10% fat and has performed much better.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
white-bellied agouti

Related Genotype: A\textsuperscript{w}/A\textsuperscript{w}

Animal Health Reports
MGL273 (Low)

 当使用SPRET/EiJ小鼠品系在论文中，必须在材料和方法部分引用JAX股票#001146。

STRAIN INTEREST REGISTRATION

Please fill out the form below to indicate your interest in purchasing this JAX®Mice strain. This information helps us manage the colony build and better meet the broad needs of the research community. Please send any technical questions to Technical Support.

Contact Information
First Name

Last Name

Institution

Phone Number

Email

Interest
Please indicate your approximate levels of interest. You can add another line by selecting "Add More Interest".
Number of Mice
Frequency
Product
Comment

Frequency...

Products...
Terms Of Use

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

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