

Resource Summary Report

Generated by ASWG on Sep 21, 2026

SPRET/EiJ

RRID:IMSR_JAX:001146

Type: Organism

Proper Citation

RRID:IMSR_JAX:001146

Organism Information

URL: <https://www.jax.org/strain/001146>

Proper Citation: RRID:IMSR_JAX:001146

Description: Mus musculus with name SPRET/EiJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: cytochrome c oxidase subunit 7A2 like|aryl-hydrocarbon receptor; wild-derived inbred strain|inbred strain: Cox7a2l|Ahr

Affected Gene: cytochrome c oxidase subunit 7A2 like|aryl-hydrocarbon receptor

Genomic Alteration: long|b-3 variant

Catalog Number: JAX:001146

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: SPRET/EiJ

Record Creation Time: 20250513T053624+0000

Record Last Update: 20260919T054812+0000

Ratings and Alerts

No rating or validation information has been found for SPRET/EiJ.

No alerts have been found for SPRET/EiJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Smoom R, et al. (2026) Addendum: Telomouse-a mouse model with human-length telomeres generated by a single amino acid change in RTE1. Nature communications, 17(1).

Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. iScience, 28(11), 113703.

Zou X, et al. (2022) Mammalian splicing divergence is shaped by drift, buffering in trans, and a scaling law. Life science alliance, 5(4).

Halow JM, et al. (2021) Tissue context determines the penetrance of regulatory DNA variation. Nature communications, 12(1), 2850.

Li Y, et al. (2020) Pan-tissue analysis of allelic alternative polyadenylation suggests widespread functional regulation. Molecular systems biology, 16(4), e9367.

Liu J, et al. (2020) Robust inference of positive selection on regulatory sequences in the human brain. Science advances, 6(48).

Moeller AH, et al. (2019) Experimental Evidence for Adaptation to Species-Specific Gut Microbiota in House Mice. mSphere, 4(4).

Xia Z, et al. (2019) DeeReCT-PolyA: a robust and generic deep learning method for PAS identification. Bioinformatics (Oxford, England), 35(14), 2371.

Zhou Y, et al. (2019) Integrative system genetic analysis reveals mRNA-lncRNA network associated with mouse spontaneous lung cancer susceptibility. Oncotarget, 10(3), 339.

Yang C, et al. (2019) Genome-wide association study using diversity outcross mice identified candidate genes of pancreatic cancer. Genomics, 111(6), 1882.

Link VM, et al. (2018) MMARGE: Motif Mutation Analysis for Regulatory Genomic Elements. Nucleic acids research, 46(14), 7006.

Filipescu D, et al. (2017) Essential role for centromeric factors following p53 loss and oncogenic transformation. Genes & development, 31(5), 463.

Canela A, et al. (2017) Genome Organization Drives Chromosome Fragility. Cell, 170(3), 507.

Xiao MS, et al. (2016) Global analysis of regulatory divergence in the evolution of mouse alternative polyadenylation. *Molecular systems biology*, 12(12), 890.

Gao Q, et al. (2015) Predominant contribution of cis-regulatory divergence in the evolution of mouse alternative splicing. *Molecular systems biology*, 11(7), 816.

Tang J, et al. (2015) Genetic Background Modulates lncRNA-Coordinated Tissue Response to Low Dose Ionizing Radiation. *International journal of genomics*, 2015, 461038.

Hou J, et al. (2015) Extensive allele-specific translational regulation in hybrid mice. *Molecular systems biology*, 11(8), 825.

Zhang P, et al. (2015) Identification of genetic loci that control mammary tumor susceptibility through the host microenvironment. *Scientific reports*, 5, 8919.

Didion JP, et al. (2015) A multi-megabase copy number gain causes maternal transmission ratio distortion on mouse chromosome 2. *PLoS genetics*, 11(2), e1004850.

Lilue J, et al. (2013) Reciprocal virulence and resistance polymorphism in the relationship between *Toxoplasma gondii* and the house mouse. *eLife*, 2, e01298.