

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 2, 2026

[Rfx4^{tm1e\(EUCOMM\)}Wtsi](#)

RRID:IMSR_EUMMCR:2101

Type: Organism

Proper Citation

RRID:IMSR_EUMMCR:2101

Organism Information

URL:

Proper Citation: RRID:IMSR_EUMMCR:2101

Description: Mus musculus with name Rfx4^{tm1e(EUCOMM)}Wtsi from IMSR.

Species: Mus musculus

Notes: gene symbol note: regulatory factor X; 4 (influences HLA class II expression); mutant strain: Rfx4

Affected Gene: regulatory factor X; 4 (influences HLA class II expression)

Genomic Alteration: targeted mutation 1e; Wellcome Trust Sanger Institute

Catalog Number: EUMMCR:2101

Database: European Mouse Mutant Cell Repository

Database Abbreviation: EuMMCR

Availability: ES Cell

Organism Name: Rfx4^{tm1e(EUCOMM)}Wtsi

Record Creation Time: 20250513T061705+0000

Record Last Update: 20260801T055220+0000

Ratings and Alerts

No rating or validation information has been found for Rfx4^{tm1e(EUCOMM)}Wtsi.

No alerts have been found for Rfx4^{tm1e(EUCOMM)}Wtsi.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Cell Repository

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Cao X, et al. (2026) Cadherin 11 regulates presynaptic vesicle trafficking and neuronal activity in autism-related brain circuit. *Molecular psychiatry*, 31(1), 192.

Li P, et al. (2025) BRCA1 preserves genome integrity during the formation of undifferentiated spermatogonia. *EMBO reports*, 26(15), 3747.

Liu W, et al. (2025) An essential role of the E3 ubiquitin ligase RNF126 in ensuring meiosis I completion during spermatogenesis. *Journal of advanced research*, 73, 231.

Harima R, et al. (2025) KIF2C is essential for meiosis and manchette dynamics in male mice. *Frontiers in cell and developmental biology*, 13, 1523593.

Li S, et al. (2024) The stability of FKBP9 maintained by BiP is crucial for glioma progression. *Genes & diseases*, 11(6), 101123.

Tang Z, et al. (2024) MRE11 is essential for the long-term viability of undifferentiated spermatogonia. *Cell proliferation*, 57(9), e13685.

Sun L, et al. (2024) Splicing factor SRSF1 is essential for homing of precursor spermatogonial stem cells in mice. *eLife*, 12.

Zhu L, et al. (2024) Loss of ZC4H2, an Arthrogryposis Multiplex Congenita Associated Gene, Promotes Osteoclastogenesis in Mice. *Genes*, 15(9).

Gille AS, et al. (2023) Impact of the hypoxic microenvironment on spermatogonial stem cells in culture. *Frontiers in cell and developmental biology*, 11, 1293068.

Weinberg-Shukron A, et al. (2022) Balanced gene dosage control rather than parental origin underpins genomic imprinting. *Nature communications*, 13(1), 4391.

Haake SM, et al. (2022) Ligand-independent integrin $\alpha 1$ signaling supports lung adenocarcinoma development. *JCI insight*, 7(15).

Liu W, et al. (2022) SRSF10 is essential for progenitor spermatogonia expansion by regulating alternative splicing. *eLife*, 11.

Kasatkina LA, et al. (2022) Optogenetic manipulation and photoacoustic imaging using a near-infrared transgenic mouse model. *Nature communications*, 13(1), 2813.

Hoermann A, et al. (2022) Gene drive mosquitoes can aid malaria elimination by retarding Plasmodium sporogonic development. Science advances, 8(38), eabo1733.

Zhou S, et al. (2022) UHRF1 interacts with snRNAs and regulates alternative splicing in mouse spermatogonial stem cells. Stem cell reports, 17(8), 1859.

Blomberg Jensen M, et al. (2021) RANKL regulates male reproductive function. Nature communications, 12(1), 2450.

He Y, et al. (2021) Single-cell RNA-Seq reveals a highly coordinated transcriptional program in mouse germ cells during primordial follicle formation. Aging cell, 20(7), e13424.

Ma P, et al. (2020) ZC4H2 stabilizes RNF220 to pattern ventral spinal cord through modulating Shh/Gli signaling. Journal of molecular cell biology, 12(5), 337.

McNicoll F, et al. (2020) Meiotic sex chromosome cohesion and autosomal synapsis are supported by Esco2. Life science alliance, 3(3).

Kuroki S, et al. (2020) H3K9 Demethylases JMJD1A and JMJD1B Control Prospermatogonia to Spermatogonia Transition in Mouse Germline. Stem cell reports, 15(2), 424.