

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

CAST.129S1(B6)-Kif18a^{gcd2}/JcsMmjax

RRID:MMRRC_034325-JAX

Type: Organism

Proper Citation

RRID:MMRRC_034325-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=34325

Proper Citation: RRID:MMRRC_034325-JAX

Description: Mus musculus with name CAST.129S1(B6)-Kif18a^{gcd2}/JcsMmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Developmental Biology, Reproduction; Mutation Type: chemically induced mutation ; Collection:

Phenotype: abnormal ovary morphology [MP:0001126]| small ovary [MP:0001127]| abnormal spermatogenesis [MP:0001156]| infertility [MP:0001924]| male infertility [MP:0001925]| female infertility [MP:0001926]| abnormal gametogenesis [MP:0001929]| decreased germ cell number [MP:0002209]| abnormal cell cycle checkpoint function [MP:0004045]| abnormal mitosis [MP:0004046]| decreased male germ cell number [MP:0004901]| decreased oocyte number [MP:0005431]| abnormal cell physiology [MP:0005621]| increased apoptosis [MP:0006042]| abnormal spermatogonia morphology [MP:0006378]| decreased primordial germ cell number [MP:0008392]| abnormal ovarian follicle number [MP:0008871]| abnormal mitotic spindle morphology [MP:0009760]| abnormal mitotic spindle assembly checkpoint [MP:0009762]| embryonic lethality [MP:0011102]| incomplete penetrance [MP:0011704]

Affected Gene: Kif18a

Catalog Number: 034325-JAX

Background: chemically induced mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:16822657](#), [PMID:12855593](#)

Alternate IDs: MMRRC_34325-JAX, MMRRC_034325, MMRRC_34325

Organism Name: CAST.129S1(B6)-*Kif18a^{gcd2}*/JcsMmjax

Record Creation Time: 20230308T055132+0000

Record Last Update: 20260905T110858+0000

Ratings and Alerts

No rating or validation information has been found for CAST.129S1(B6)-*Kif18a^{gcd2}*/JcsMmjax.

No alerts have been found for CAST.129S1(B6)-*Kif18a^{gcd2}*/JcsMmjax.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Nesbit C, et al. (2025) Anapc5 and Anapc7 as genetic modifiers of KIF18A function in fertility and mitotic progression. Scientific reports, 15(1), 23046.

Nesbit C, et al. (2024) Anapc5 and Anapc7 as genetic modifiers of KIF18A function in fertility and mitotic progression. bioRxiv : the preprint server for biology.

Sepaniac LA, et al. (2021) Micronuclei in Kif18a mutant mice form stable micronuclear envelopes and do not promote tumorigenesis. The Journal of cell biology, 220(11).

Fonseca CL, et al. (2019) Mitotic chromosome alignment ensures mitotic fidelity by promoting interchromosomal compaction during anaphase. The Journal of cell biology, 218(4), 1148.