

# Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

## B6;129S7-Amhr2<sup>tm3(cre)</sup>Bhr/Mmnc

RRID:MMRRC\_014245-UNC

Type: Organism

### Proper Citation

RRID:MMRRC\_014245-UNC

### Organism Information

**URL:** [https://www.mmrrc.org/catalog/sds.php?mmrrc\\_id=14245](https://www.mmrrc.org/catalog/sds.php?mmrrc_id=14245)

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**Description:** Mus musculus with name B6;129S7-Amhr2<sup>tm3(cre)</sup>Bhr/Mmnc from MMRRC.

**Species:** Mus musculus

**Notes:** Research areas: Apoptosis, Cell Biology, Developmental Biology, Models for Human Disease, Reproduction, Research Tools; Mutation Type: Targeted Mutation ; Collection:

**Phenotype:** decreased hematocrit [MP:0000208] extramedullary hematopoiesis [MP:0000240] impaired fertilization [MP:0000242] abnormal kidney development [MP:0000527] abnormal uterus morphology [MP:0001120] abnormal ovary morphology [MP:0001126] impaired ovarian folliculogenesis [MP:0001129] abnormal ovarian folliculogenesis [MP:0001130] abnormal ovarian follicle morphology [MP:0001131] absent corpus luteum [MP:0001134] abnormal testis morphology [MP:0001146] small testis [MP:0001147] small seminiferous tubules [MP:0001153] seminiferous tubule degeneration [MP:0001154] arrest of spermatogenesis [MP:0001155] abnormal spermatogenesis [MP:0001156] increased metastatic potential [MP:0001272] disheveled coat [MP:0001511] anemia [MP:0001577] abnormal placenta development [MP:0001712] abnormal placenta labyrinth morphology [MP:0001716] failure of embryo implantation [MP:0001728] impaired embryo implantation [MP:0001729] postnatal growth retardation [MP:0001732] suppressed circulating follicle stimulating hormone level [MP:0001749] increased circulating follicle stimulating hormone level [MP:0001750] increased circulating luteinizing hormone level [MP:0001751] edema [MP:0001785] hemorrhage [MP:0001914] reduced female fertility [MP:0001923] infertility [MP:0001924] male infertility [MP:0001925] female infertility [MP:0001926] abnormal ovulation [MP:0001928] abnormal meiosis [MP:0001930] decreased litter size [MP:0001935] secondary sex reversal [MP:0001939] testis hypoplasia [MP:0001940] ovary cysts [MP:0002016] increased carcinoma incidence [MP:0002038] premature death

[MP:0002083] abnormal sex determination [MP:0002210] abnormal seminiferous tubule morphology [MP:0002216] cryptorchism [MP:0002286] abnormal pulmonary circulation [MP:0002295] small uterus [MP:0002637] uterus hyperplasia [MP:0002676] decreased corpora lutea number [MP:0002680] increased corpora lutea number [MP:0002681] decreased mature ovarian follicle number [MP:0002682] small adrenal glands [MP:0002768] decreased circulating luteinizing hormone level [MP:0002773] decreased circulating testosterone level [MP:0002780] abnormal Sertoli cell morphology [MP:0002784] male pseudohermaphroditism [MP:0002789] testicular atrophy [MP:0003205] abnormal placenta vasculature [MP:0003231] decreased ovulation rate [MP:0003355] absent sexual maturation [MP:0003379] absent placental labyrinth [MP:0003403] abnormal oviduct morphology [MP:0003574] increased ovarian carcinoma incidence [MP:0003579] abnormal ovary development [MP:0003582] abnormal oviduct transport [MP:0003700] abnormal Mullerian duct morphology [MP:0003826] abnormal testis development [MP:0003830] abnormal uterine environment [MP:0004014] abnormal miscarriage rate [MP:0004244] abnormal maternal decidual layer morphology [MP:0004256] decreased renal glomerulus number [MP:0004505] absent oocytes [MP:0004805] ovary hemorrhage [MP:0004834] decreased testis weight [MP:0004852] increased ovary weight [MP:0004855] decreased ovary weight [MP:0004856] abnormal endometrium morphology [MP:0004896] decreased male germ cell number [MP:0004901] decreased uterus weight [MP:0004905] abnormal trophoblast layer morphology [MP:0005031] increased follicle stimulating hormone level [MP:0005131] ovary hypoplasia [MP:0005158] azoospermia [MP:0005159] increased circulating estradiol level [MP:0005182] decreased circulating progesterone level [MP:0005185] increased circulating progesterone level [MP:0005186] ascites [MP:0005324] abnormal circulating hormone level [MP:0005418] decreased oocyte number [MP:0005431] hemoperitoneum [MP:0005435] increased testis tumor incidence [MP:0006262] abnormal testis cord formation [MP:0006418] increased ovary tumor incidence [MP:0008000] abnormal myometrium morphology [MP:0008256] thin myometrium [MP:0008257] arrest of male meiosis [MP:0008261] abnormal placental labyrinth vasculature morphology [MP:0008803] abnormal granulosa cell morphology [MP:0008868] abnormal ovarian follicle number [MP:0008871] decreased uterine NK cell number [MP:0008876] abnormal DNA methylation [MP:0008877] abnormal spongiotrophoblast cell morphology [MP:0008959] early reproductive senescence [MP:0008995] short oviduct [MP:0009071] short uterine horn [MP:0009089] endometrium hyperplasia [MP:0009092] decreased endometrial gland number [MP:0009096] failure of Mullerian duct regression [MP:0009139] internal male genitalia hypoplasia [MP:0009207] abnormal secondary ovarian follicle morphology [MP:0009363] abnormal cumulus expansion [MP:0009373] absent cumulus expansion [MP:0009374] increased trophoblast giant cell number [MP:0009397] polyovular ovarian follicle [MP:0009433] ovarian follicular cyst [MP:0009444] abnormal superovulation [MP:0009648] abnormal pregnancy [MP:0009661] embryonic lethality [MP:0011102] incomplete penetrance [MP:0011750] abnormal seminiferous tubule epithelium morphology [MP:0012411] increased granulosa cell tumor incidence [MP:0013399] endometrium fibrosis [MP:0013539]

**Affected Gene:** creAmhr2

**Catalog Number:** 014245-UNC

**Background:** Targeted Mutation

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

**Database Abbreviation:** MMRRRC

**Source References:** [PMID:12368913](#), [PMID:14701941](#), [PMID:15118069](#)

**Alternate IDs:** MMRRRC\_14245-UNC, MMRRRC\_014245, MMRRRC\_14245

**Organism Name:** B6;129S7-*Amhr2*<sup>tm3(*cre*)*Bhr*</sup>/Mmnc

**Record Creation Time:** 20230308T054927+0000

**Record Last Update:** 20260801T123647+0000

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## Ratings and Alerts

No rating or validation information has been found for B6;129S7-*Amhr2*<sup>tm3(*cre*)*Bhr*</sup>/Mmnc.

No alerts have been found for B6;129S7-*Amhr2*<sup>tm3(*cre*)*Bhr*</sup>/Mmnc.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** Mutant Mouse Resource and Research Center (MMRRRC)

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Niu C, et al. (2025) COPS5 is Essential for Sertoli Cell Function and Male Fertility in Mice. *bioRxiv* : the preprint server for biology.

Douglas JC, et al. (2024) Normal Ovarian Function in Subfertile Mouse with *Amhr2*-Cre-Driven Ablation of *Insr* and *Igf1r*. *Genes*, 15(5).

Granados-Aparici S, et al. (2024) SMAD4 promotes somatic-germline contact during murine oocyte growth. *eLife*, 13.

Smith ER, et al. (2024) AMH regulates a mosaic population of AMHR2-positive cells in the ovarian surface epithelium. *The Journal of biological chemistry*, 300(11), 107897.

Chauvin M, et al. (2023) Cancer-associated mesothelial cells are regulated by the anti-Müllerian hormone axis. *Cell reports*, 42(7), 112730.

Ghosh A, et al. (2020) In Vivo Cell Fate Tracing Provides No Evidence for Mesenchymal to Epithelial Transition in Adult Fallopian Tube and Uterus. *Cell reports*, 31(6), 107631.

Saatcioglu HD, et al. (2019) Single-cell sequencing of neonatal uterus reveals an *Misr2*+ endometrial progenitor indispensable for fertility. *eLife*, 8.

Wang Y, et al. (2016) Follicle Depletion Provides a Permissive Environment for Ovarian Carcinogenesis. *Molecular and cellular biology*, 36(18), 2418.

Kyrönlahti A, et al. (2011) GATA4 regulates Sertoli cell function and fertility in adult male mice. *Molecular and cellular endocrinology*, 333(1), 85.

Kyrönlahti A, et al. (2011) GATA4 deficiency impairs ovarian function in adult mice. *Biology of reproduction*, 84(5), 1033.