Resource Summary Report

Generated by kravitz2 on Sep 19, 2026

B6;CBA-Tg(Gnrh1-EGFP)51Sumo/J

RRID:IMSR_JAX:033639
Type: Organism

Proper Citation

RRID:IMSR_JAX:033639

Organism Information

URL: https://www.jax.org/strain/033639

Proper Citation: RRID:IMSR_JAX:033639

Description: Mus musculus with name B6;CBA-Tg(Gnrh1-EGFP)51Sumo/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(Gnrh1-EGFP)51Sumo/J

Notes: gene symbol note: transgene insertion 51; Suzanne Moenter; mutant stock: Tg(Gnrh1-EGFP)51Sumo

Affected Gene: transgene insertion 51; Suzanne Moenter

Genomic Alteration: transgene insertion 51; Suzanne Moenter

Catalog Number: JAX:033639

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;CBA-Tg(Gnrh1-EGFP)51Sumo/J

Record Creation Time: 20250513T053837+0000

Record Last Update: 20260919T055020+0000

Ratings and Alerts

No rating or validation information has been found for B6;CBA-Tg(Gnrh1-EGFP)51Sumo/J.

No alerts have been found for B6;CBA-Tg(Gnrh1-EGFP)51Sumo/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Jaime J, et al. (2022) GnRH Neuron Excitability and Action Potential Properties Change with Development But Are Not Affected by Prenatal Androgen Exposure. eNeuro, 9(6).

Dairaghi L, et al. (2022) The Dopamine D4 Receptor Regulates Gonadotropin-Releasing Hormone Neuron Excitability in Male Mice. eNeuro, 9(2).

DeFazio RA, et al. (2021) Gonadotropin-Releasing Hormone (GnRH) Neuron Potassium Currents and Excitability in Both Sexes Exhibit Minimal Changes upon Removal of Negative Feedback. eNeuro, 8(4).

Vastagh C, et al. (2021) Networking of glucagon-like peptide-1 axons with GnRH neurons in the basal forebrain of male mice revealed by 3DISCO-based immunocytochemistry and optogenetics. Brain structure & function, 226(1), 105.

Vanacker C, et al. (2021) A role for glial fibrillary acidic protein (GFAP)-expressing cells in the regulation of gonadotropin-releasing hormone (GnRH) but not arcuate kisspeptin neuron output in male mice. eLife, 10.

Vastagh C, et al. (2020) Gonadal Cycle-Dependent Expression of Genes Encoding Peptide-, Growth Factor-, and Orphan G-Protein-Coupled Receptors in Gonadotropin-Releasing Hormone Neurons of Mice. Frontiers in molecular neuroscience, 13, 594119.

Pinet-Charvet C, et al. (2020) Beta-nerve growth factor stimulates spontaneous electrical activity of in vitro embryonic mouse GnRH neurons through a P75 mediated-mechanism. Scientific reports, 10(1), 10654.

Dulka EA, et al. (2020) Chemogenetic Suppression of GnRH Neurons during Pubertal Development Can Alter Adult GnRH Neuron Firing Rate and Reproductive Parameters in Female Mice. eNeuro, 7(3).

Rijal S, et al. (2020) Melatonin Suppresses the Kainate Receptor-Mediated Excitation on Gonadotropin-Releasing Hormone Neurons in Female and Male Prepubertal Mice. International journal of molecular sciences, 21(17).

Holland S, et al. (2019) The influence of maternal androgen excess on the male reproductive axis. Scientific reports, 9(1), 18908.

Silva MSB, et al. (2019) Activation of arcuate nucleus GABA neurons promotes luteinizing hormone secretion and reproductive dysfunction: Implications for polycystic ovary syndrome. EBioMedicine, 44, 582.

Constantin S, et al. (2018) Nociceptin/Orphanin-FQ Inhibits Gonadotropin-Releasing Hormone Neurons via G-Protein-Gated Inwardly Rectifying Potassium Channels. eNeuro, 5(6).

Lainez NM, et al. (2018) Diet-Induced Obesity Elicits Macrophage Infiltration and Reduction in Spine Density in the Hypothalami of Male but Not Female Mice. Frontiers in immunology, 9, 1992.

Barab??s K, et al. (2018) The Role of Interleukin-10 in Mediating the Effect of Immune Challenge on Mouse Gonadotropin-Releasing Hormone Neurons In Vivo. eNeuro, 5(5).

Dairaghi L, et al. (2018) Reelin Can Modulate Migration of Olfactory Ensheathing Cells and Gonadotropin Releasing Hormone Neurons via the Canonical Pathway. Frontiers in cellular neuroscience, 12, 228.

Raftogianni A, et al. (2018) Deciphering the Contributions of CRH Receptors in the Brain and Pituitary to Stress-Induced Inhibition of the Reproductive Axis. Frontiers in molecular neuroscience, 11, 305.

Taylor-Burds C, et al. (2015) Chloride Accumulators NKCC1 and AE2 in Mouse GnRH Neurons: Implications for GABAA Mediated Excitation. PloS one, 10(6), e0131076.

Giacobini P, et al. (2014) Brain endothelial cells control fertility through ovarian-steroid-dependent release of semaphorin 3A. PLoS biology, 12(3), e1001808.

Low VF, et al. (2012) Netrin-1 stimulates developing GnRH neurons to extend neurites to the median eminence in a calcium- dependent manner. PloS one, 7(10), e46999.

Hrabovszky E, et al. (2011) Sexual dimorphism of kisspeptin and neurokinin B immunoreactive neurons in the infundibular nucleus of aged men and women. Frontiers in endocrinology, 2, 80.