

Resource Summary Report

Generated by [NIF](#) on Sep 5, 2026

B6.Cg-Tg(CAG-cre/Esr1*)5Amc/J

RRID:IMSR_JAX:004682

Type: Organism

Proper Citation

RRID:IMSR_JAX:004682

Organism Information

URL: <https://www.jax.org/strain/004682>

Proper Citation: RRID:IMSR_JAX:004682

Description: Mus musculus with name B6.Cg-Tg(CAG-cre/Esr1*)5Amc/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(cre/Esr1)5Amc/J. B6.Cg-Tg(CAG-cre/Esr1)5Amc/J

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 fusion gene|transgene insertion 5; Andrew P McMahon|actin; beta; mutant strain|congenic strain: cre/Esr1|Tg(CAG-cre/Esr1*)5Amc|ACTB

Affected Gene: Cre recombinase and estrogen receptor 1 fusion gene|transgene insertion 5; Andrew P McMahon|actin; beta

Genomic Alteration: transgene insertion 5; Andrew P McMahon

Catalog Number: JAX:004682

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(CAG-cre/Esr1*)5Amc/J

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260905T044427+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(CAG-cre/Esr1*)5Amc/J.

No alerts have been found for B6.Cg-Tg(CAG-cre/Esr1*)5Amc/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 91 mentions in open access literature.

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

Pathak M, et al. (2026) Mouse germline cysts contain a fusome-like structure that mediates oocyte development. eLife, 14.

Yao N, et al. (2025) Maternal circadian rhythms during pregnancy dictate metabolic plasticity in offspring. Cell metabolism, 37(2), 395.

Winningham AH, et al. (2025) Role of PROP1 in Postnatal Pituitary Gland Maturation. Endocrinology, 166(9).

Poddar S, et al. (2025) ArfGAP2 promotes STING proton channel activity, cytokine transit, and autoinflammation. Cell, 188(6), 1605.

Cools JMT, et al. (2025) Small-molecule-induced ERBB4 activation to treat heart failure. Nature communications, 16(1), 576.

Mukhopadhyay M, et al. (2025) Persistence of vestibular function in the absence of glutamatergic transmission from hair cells. bioRxiv : the preprint server for biology.

Pic?? S, et al. (2025) Comparative analysis of mouse strains for in vivo induction of reprogramming factors. Cell reports, 44(7), 115879.

Song X, et al. (2025) Independent genetic strategies define the scope and limits of CDKL5 deficiency disorder reversal. Cell reports. Medicine, 6(2), 101926.

Moir RD, et al. (2024) Molecular basis of neurodegeneration in a mouse model of Polr3-related disease. eLife, 13.

Kao YR, et al. (2024) An iron rheostat controls hematopoietic stem cell fate. Cell stem cell, 31(3), 378.

Farhat B, et al. (2024) Understanding the cell fate and behavior of progenitors at the origin of the mouse cardiac mitral valve. Developmental cell, 59(3), 339.

Yadav MK, et al. (2024) MAFB in macrophages regulates cold-induced neuronal density in brown adipose tissue. Cell reports, 43(4), 113978.

Dai W, et al. (2024) Nucleoporin Seh1 controls murine neocortical development via transcriptional repression of p21 in neural stem cells. *Developmental cell*, 59(4), 482.

Zhao F, et al. (2024) Apoptosis signal-regulating kinase 1 (Ask1) deficiency alleviates MPP⁺-induced impairment of evoked dopamine release in the mouse hippocampus. *Frontiers in cellular neuroscience*, 18, 1288991.

Watanuki S, et al. (2024) SDHAF1 confers metabolic resilience to aging hematopoietic stem cells by promoting mitochondrial ATP production. *Cell stem cell*, 31(8), 1145.

Gao KM, et al. (2024) Endothelial cell expression of a STING gain-of-function mutation initiates pulmonary lymphocytic infiltration. *Cell reports*, 43(4), 114114.

Reinhard JR, et al. (2023) Nerve pathology is prevented by linker proteins in mouse models for LAMA2-related muscular dystrophy. *PNAS nexus*, 2(4), pgad083.

Urbanus J, et al. (2023) DRAG in situ barcoding reveals an increased number of HSPCs contributing to myelopoiesis with age. *Nature communications*, 14(1), 2184.

Sheehan PW, et al. (2023) An astrocyte BMAL1-BAG3 axis protects against alpha-synuclein and tau pathology. *Neuron*, 111(15), 2383.

Bakalar D, et al. (2023) Constitutive and conditional deletion reveals distinct phenotypes driven by developmental versus neurotransmitter actions of the neuropeptide PACAP. *Journal of neuroendocrinology*, 35(11), e13286.