

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.129P2-Esr2^{tm1Unc}/J

RRID:IMSR_JAX:004745

Type: Organism

Proper Citation

RRID:IMSR_JAX:004745

Organism Information

URL: <https://www.jax.org/strain/004745>

Proper Citation: RRID:IMSR_JAX:004745

Description: Mus musculus with name B6.129P2-Esr2^{tm1Unc}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: estrogen receptor 2 (beta); mutant strain|congenic strain: Esr2

Affected Gene: estrogen receptor 2 (beta)

Genomic Alteration: targeted mutation 1; University of North Carolina

Catalog Number: JAX:004745

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129P2-Esr2^{tm1Unc}/J

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260919T054835+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Esr2^{tm1Unc}/J.

No alerts have been found for B6.129P2-Esr2^{tm1Unc}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Ekpruke CD, et al. (2026) Estrogen receptor α regulates sex-dependent airway mechanics and inflammation in a murine model of allergen exposure. *Physiological reports*, 14(11), e70948.

Kalinowski D, et al. (2023) Dopaminergic and cholinergic modulation of the amygdala is altered in female mice with oestrogen receptor α deprivation. *Scientific reports*, 13(1), 897.

Andrew TW, et al. (2022) Sexually dimorphic estrogen sensing in skeletal stem cells controls skeletal regeneration. *Nature communications*, 13(1), 6491.

Kalinowski D, et al. (2022) Expression of Calbindin, a Marker of Gamma-Aminobutyric Acid Neurons, Is Reduced in the Amygdala of Oestrogen Receptor α -Deficient Female Mice. *Journal of clinical medicine*, 11(7).

Ahluwalia A, et al. (2022) Membrane Estrogen Receptor α Is Sufficient to Mitigate Cardiac Cell Pathology. *Endocrinology*, 164(2).

Satirapod C, et al. (2020) Estrogen regulation of germline stem cell differentiation as a mechanism contributing to female reproductive aging. *Aging*, 12(8), 7313.

Ahn S, et al. (2020) Biomimetic and estrogenic fibers promote tissue repair in mice and human skin via estrogen receptor α . *Biomaterials*, 255, 120149.

Wang L, et al. (2019) Targeting ER α in Macrophage Reduces Crown-like Structures in Adipose Tissue by Inhibiting Osteopontin and HIF-1 α . *Scientific reports*, 9(1), 15762.

Kalidhindi RSR, et al. (2019) Role of Estrogen Receptors α and β in a Murine Model of Asthma: Exacerbated Airway Hyperresponsiveness and Remodeling in ER α Knockout Mice. *Frontiers in pharmacology*, 10, 1499.