

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 2026

B6.FVB-Tg(Ucp1-cre)1Evdr/J

RRID:IMSR_JAX:024670

Type: Organism

Proper Citation

RRID:IMSR_JAX:024670

Organism Information

URL: <https://www.jax.org/strain/024670>

Proper Citation: RRID:IMSR_JAX:024670

Description: Mus musculus with name B6.FVB-Tg(Ucp1-cre)1Evdr/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: uncoupling protein 1 (mitochondrial; proton carrier)||transgene insertion 1; Evan Rosen; mutant strain|congenic strain: Ucp1||Tg(Ucp1-cre)1Evdr

Affected Gene: uncoupling protein 1 (mitochondrial; proton carrier)||transgene insertion 1; Evan Rosen

Genomic Alteration: transgene insertion 1; Evan Rosen

Catalog Number: JAX:024670

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.FVB-Tg(Ucp1-cre)1Evdr/J

Record Creation Time: 20250513T053751+0000

Record Last Update: 20260801T050508+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Ucp1-cre)1Evdr/J.

No alerts have been found for B6.FVB-Tg(Ucp1-cre)1Evdr/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 40 mentions in open access literature.

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

Gallardo Montejano VI, et al. (2026) Acute deletion of PLIN5 in brown adipocytes causes mitochondrial dysfunction and cold intolerance. bioRxiv : the preprint server for biology.

Park CH, et al. (2025) Cold-inducible GOT1 activates the malate-aspartate shuttle in brown adipose tissue to support fuel preference for fatty acids. Cell reports, 44(7), 115888.

Marti A, et al. (2025) ATF4 Deletion in Brown Adipocytes Attenuates Diet-Induced Insulin Resistance in Male Mice Independently of Weight Gain. Endocrinology, 166(8).

Wang H, et al. (2025) Adipocyte-specific Steap4 deficiency reduced thermogenesis and energy expenditure in mice. iScience, 28(2), 111903.

Naderi J, et al. (2025) Ceramide-induced FGF13 impairs systemic metabolic health. Cell metabolism, 37(5), 1206.

Moazzami Z, et al. (2025) Ketone body driven lipid remodeling supports thermogenic adaptation to fasting. bioRxiv : the preprint server for biology.

Verkerke ARP, et al. (2024) BCAA-nitrogen flux in brown fat controls metabolic health independent of thermogenesis. Cell, 187(10), 2359.

Inoue SI, et al. (2024) Short-term cold exposure induces persistent epigenomic memory in brown fat. Cell metabolism, 36(8), 1764.

Kwon J, et al. (2023) Mevalonate biosynthesis pathway regulates the development and survival of brown adipocytes. iScience, 26(3), 106161.

Shi L, et al. (2022) Brown adipose tissue-derived Nrg4 alleviates endothelial inflammation and atherosclerosis in male mice. Nature metabolism, 4(11), 1573.

Fan L, et al. (2022) KLF15 controls brown adipose tissue transcriptional flexibility and metabolism in response to various energetic demands. iScience, 25(11), 105292.

Furuuchi R, et al. (2022) Endothelial SIRT-1 has a critical role in the maintenance of capillarization in brown adipose tissue. iScience, 25(11), 105424.

Huang Z, et al. (2022) Brown adipose tissue involution associated with progressive restriction in progenitor competence. *Cell reports*, 39(2), 110575.

Xue K, et al. (2022) The mitochondrial calcium uniporter engages UCP1 to form a thermoporter that promotes thermogenesis. *Cell metabolism*, 34(9), 1325.

Sveidahl Johansen O, et al. (2021) Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. *Cell*, 184(13), 3502.

Sebag SC, et al. (2021) ADH5-mediated NO bioactivity maintains metabolic homeostasis in brown adipose tissue. *Cell reports*, 37(7), 110003.

Gallardo-Montejano VI, et al. (2021) Perilipin 5 links mitochondrial uncoupled respiration in brown fat to healthy white fat remodeling and systemic glucose tolerance. *Nature communications*, 12(1), 3320.

Seale LA, et al. (2021) Adaptive Thermogenesis in a Mouse Model Lacking Selenoprotein Biosynthesis in Brown Adipocytes. *International journal of molecular sciences*, 22(2).

Schlein C, et al. (2021) Endogenous Fatty Acid Synthesis Drives Brown Adipose Tissue Involution. *Cell reports*, 34(2), 108624.

Gallerand A, et al. (2021) Brown adipose tissue monocytes support tissue expansion. *Nature communications*, 12(1), 5255.