

Resource Summary Report

Generated by [kravitz2](#) on Sep 6, 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: |transgene insertion 1; Evan Rosen|uncoupling protein 1 (mitochondrial; proton carrier); mutant strain|congenic strain: |Tg(Ucp1-cre)1Evdr|Ucp1

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

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: 20260905T044531+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 41 mentions in open access literature.

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

Paulo E, et al. (2026) Cox10-mediated mitochondrial respiration in brown adipocytes regulates adaptive thermogenesis and systemic metabolism. *iScience*, 29(7), 116442.

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.

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

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

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.

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.

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

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

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