

Resource Summary Report

Generated by [ASWG](#) on Aug 10, 2026

B6.129S4-Ucp2^{tm1Lowl}/J

RRID:IMSR_JAX:005934

Type: Organism

Proper Citation

RRID:IMSR_JAX:005934

Organism Information

URL: <https://www.jax.org/strain/005934>

Proper Citation: RRID:IMSR_JAX:005934

Description: Mus musculus with name B6.129S4-Ucp2^{tm1Lowl}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129-Ucp2/J

Notes: gene symbol note: uncoupling protein 2 (mitochondrial; proton carrier); mutant strain|congenic strain: Ucp2

Affected Gene: uncoupling protein 2 (mitochondrial; proton carrier)

Genomic Alteration: targeted mutation 1; Bradford B Lowell

Catalog Number: JAX:005934

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.129S4-Ucp2^{tm1Lowl}/J

Record Creation Time: 20250513T053653+0000

Record Last Update: 20260808T050856+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Ucp2^{tm1Lowl}/J.

No alerts have been found for B6.129S4-Ucp2^{tm1Lowl}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Kim DH, et al. (2022) UCP2 KO mice exhibit ameliorated obesity and inflammation induced by high-fat diet feeding. BMB reports, 55(10), 500.

Bertholet AM, et al. (2019) H⁺ transport is an integral function of the mitochondrial ADP/ATP carrier. Nature, 571(7766), 515.

Motloch LJ, et al. (2016) By Regulating Mitochondrial Ca²⁺-Uptake UCP2 Modulates Intracellular Ca²⁺. PloS one, 11(2), e0148359.

Motloch LJ, et al. (2015) UCP2 Modulates Cardioprotective Effects of Ru360 in Isolated Cardiomyocytes during Ischemia. Pharmaceuticals (Basel, Switzerland), 8(3), 474.