

Resource Summary Report

Generated by [RRID](#) on Aug 1, 2026

C57BL/6N-Gpt2tm1a(KOMP)Wtsi/MbpMmucd

RRID:MMRRC_047980-UCD

Type: Organism

Proper Citation

RRID:MMRRC_047980-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=47980

Proper Citation: RRID:MMRRC_047980-UCD

Description: Mus musculus with name C57BL/6N-Gpt2tm1a(KOMP)Wtsi/MbpMmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: ; Mutation Type: Targeted Mutation ; Collection: KOMP

Phenotype: decreased brain size [MP:0000774]| abnormal cerebral cortex morphology [MP:0000788]| abnormal brain development [MP:0000913]| hypoactivity [MP:0001402]| premature death [MP:0002083]| abnormal metabolism [MP:0005266]| abnormal amino acid level [MP:0005332]| abnormal enzyme/coenzyme activity [MP:0005584]| abnormal cerebral hemisphere morphology [MP:0008540]| abnormal synapse morphology [MP:0009538]| abnormal hippocampus neuron morphology [MP:0009939]| abnormal tricarboxylic acid cycle [MP:0010958]| abnormal amino acid metabolism [MP:0013242]

Affected Gene: Gpt2

Catalog Number: 047980-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:21677750](#)

Alternate IDs: MMRRC_47980-UCD, MMRRC_047980, MMRRC_4798

Organism Name: C57BL/6N-Gpt2tm1a(KOMP)Wtsi/MbpMmucd

Record Creation Time: 20230308T055254+0000

Record Last Update: 20260725T164404+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6N-*Gpt2tm1a(KOMP)Wtsi*/MbpMmucd.

No alerts have been found for C57BL/6N-*Gpt2tm1a(KOMP)Wtsi*/MbpMmucd.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Baytas O, et al. (2024) Loss of mitochondrial enzyme GPT2 leads to reprogramming of synaptic glutamate metabolism. bioRxiv : the preprint server for biology.

Baytas O, et al. (2024) Loss of mitochondrial enzyme GPT2 leads to reprogramming of synaptic glutamate metabolism. Molecular brain, 17(1), 87.

Cicatiello AG, et al. (2022) Thyroid hormone regulates glutamine metabolism and anaplerotic fluxes by inducing mitochondrial glutamate aminotransferase GPT2. Cell reports, 38(8), 110409.