

Resource Summary Report

Generated by [Kravitz](#) on Sep 20, 2026

C57BL/6-Tg(Slc17a6-icre)1Oki/Kctt

RRID:IMSR_EM:04587

Type: Organism

Proper Citation

RRID:IMSR_EM:04587

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=4587>

Proper Citation: RRID:IMSR_EM:04587

Description: Mus musculus with name C57BL/6-Tg(Slc17a6-icre)1Oki/Kctt from IMSR.

Species: Mus musculus

Synonyms: Vglut2-cre F16

Notes: gene symbol note: transgene insertion 1; Ole Kiehn; mutant strain: Tg(Slc17a6-icre)1Oki

Affected Gene: transgene insertion 1; Ole Kiehn

Genomic Alteration: transgene insertion 1; Ole Kiehn

Catalog Number: EM:04587

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: embryo

Organism Name: C57BL/6-Tg(Slc17a6-icre)1Oki/Kctt

Record Creation Time: 20250513T062222+0000

Record Last Update: 20260919T064138+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Slc17a6-icre)1Oki/Kctt.

No alerts have been found for C57BL/6-Tg(Slc17a6-icre)1Oki/Kctt.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Archive

Usage and Citation Metrics

We found 112 mentions in open access literature.

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

Schlingloff D, et al. (2026) Most Ventral Pallidal Cholinergic Neurons Are Bursting Basal Forebrain Cholinergic Neurons with Mesocorticolimbic Connectivity. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(9).

Zhang JR, et al. (2026) Excessive ER-mitochondria coupling: A DRP1-driven mechanism underlying mitochondrial dysfunction and impaired autophagy in stress-induced depression-like behavior in mice. *Redox biology*, 92, 104121.

Wang J, et al. (2026) A Brainstem-Thalamic-Cortex Glutamatergic Neuron Pathway Modulates Propofol Anesthesia. *Drug design, development and therapy*, 20, 566561.

Lan Y, et al. (2026) Wrist-Ankle Acupuncture Alleviates Paclitaxel-Induced Neuropathic Pain in Mice by Neuronal $\alpha 7$ Nicotinic Acetylcholine Receptor-Dependent Modulation of Spinal Glutamatergic/NMDAR Signaling. *Journal of pain research*, 19, 604818.

Purvines W, et al. (2026) Alcohol and Opioids Modulate Excitatory Inputs to the SCN. *bioRxiv : the preprint server for biology*.

Zhang X, et al. (2026) An attention-demanding hunting paradigm engages the superior colliculus-zona incerta circuit mediating analgesia in male mice. *Nature communications*, 17(1).

Zheng L, et al. (2026) The posteroventral part of the medial amygdala nucleus glutamatergic neurons encodes conspecifics' individual identity in rodents. *Science advances*, 12(21), eady9830.

Wang Z, et al. (2026) Energetic diversity in retinal ganglion cells is modulated by neuronal activity and correlates with resilience to degeneration. *Nature communications*, 17(1).

Ye Z, et al. (2026) iMOSS: an integrated open-source tail suspension test platform for high-resolution immobility scoring and synchronization with neural activity. *Frontiers in behavioral neuroscience*, 20, 1819512.

Strassmann P, et al. (2026) A behavioral integration mechanism underlies action timing. *Science advances*, 12(1), eaea5558.

Mejaes JI, et al. (2026) Cell Type-Specific Encoding of Cocaine-Conditioned Responses in the Lateral Preoptic Area. *The European journal of neuroscience*, 63(5), e70446.

Bi S, et al. (2026) Respiratory-Limbic Coupling via a Thalamic Circuit Alleviates Anxiety. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(24), e17477.

Howe JR, et al. (2026) Control of innate olfactory valence by segregated cortical amygdala circuits. *eLife*, 14.

Supiot LF, et al. (2026) A prefrontal cortex-lateral hypothalamus circuit controls stress-driven increased food intake. *Nature communications*, 17(1).

Perez RM, et al. (2026) Utilizing a culture system for horizontal cells to study neural circuit assembly in the developing mouse retina. *Frontiers in cellular neuroscience*, 20, 1691122.

Bassett TE, et al. (2026) Response dynamics of discrete subiculum-retrosplenial cortex projections underlying trace fear conditioning. *iScience*, 29(4), 115317.

Bussaka K, et al. (2026) Barrington's Nucleus: A Pontine Defecation Brain Area Exhibiting Prompt and Delayed Defecation Responses. *Cellular and molecular gastroenterology and hepatology*, 20(1), 101635.

Wu JY, et al. (2026) Anesthetic State-Dependent Bidirectional Control of States of Consciousness via Heterogeneous Medial Septum to Ventral Tegmental Area Circuits under Sevoflurane in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(15).

Bartas K, et al. (2026) Drug-induced changes in connectivity to midbrain dopamine cells revealed by rabies monosynaptic tracing. *eLife*, 13.

Darden CB, et al. (2026) Acute ethanol enhances septohippocampal coordination but disrupts intrinsic hippocampal theta dynamics during foraging. *Alcohol* (Fayetteville, N.Y.), 130, 14.