

Resource Summary Report

Generated by [dkNET](#) on Aug 17, 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: 20260815T055717+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 [dkNET](#) .

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.

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.

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).

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.