Resource Summary Report

Generated by SPARC SAWG on Aug 29, 2026

C57BL/6-Tg(Grik4-cre)G32-4Stl/J

RRID:IMSR_JAX:006474
Type: Organism

Proper Citation

RRID:IMSR_JAX:006474

Organism Information

URL: https://www.jax.org/strain/006474

Proper Citation: RRID:IMSR_JAX:006474

Description: Mus musculus with name C57BL/6-Tg(Grik4-cre)G32-4Stl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: glutamate receptor; ionotropic; kainate 4|transgene insertion G32-4; Susumu Tonegawa|; coisogenic strain|mutant strain: Grik4|Tg(Grik4-cre)G32-4Stl|

Affected Gene: glutamate receptor; ionotropic; kainate 4|transgene insertion G32-4; Susumu Tonegawa|

Genomic Alteration: transgene insertion G32-4; Susumu Tonegawa

Catalog Number: JAX:006474

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Tg(Grik4-cre)G32-4Stl/J

Record Creation Time: 20250513T053657+0000

Record Last Update: 20260829T044948+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Grik4-cre)G32-4Stl/J.

No alerts have been found for C57BL/6-Tg(Grik4-cre)G32-4Stl/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Faiss L, et al. (2025) Hippocampal Commissural Circuitry Shows Asymmetric cAMP-Dependent Synaptic Plasticity. ACS chemical neuroscience, 16(21), 4236.

Li M, et al. (2025) A circuit from the basolateral amygdala to hippocampal CA3 regulates social behavior. Current biology : CB.

Kinney JL, et al. (2025) Top-down regulation of subcortical regions by hippocampal long-range inhibition. Current biology : CB, 35(23), 5853.

Lopes-Dos-Santos V, et al. (2025) Spatio-temporal organization of network activity patterns in the hippocampus. Cell reports, 44(6), 115808.

Viana da Silva S, et al. (2024) Localized APP expression results in progressive network dysfunction by disorganizing spike timing. Neuron, 112(1), 124.

Varga V, et al. (2024) Working memory features are embedded in hippocampal place fields. Cell reports, 43(3), 113807.

Yokose J, et al. (2024) Visuotactile integration facilitates mirror-induced self-directed behavior through activation of hippocampal neuronal ensembles in mice. Neuron, 112(2), 306.

Chen S, et al. (2024) Integration and competition between space and time in the hippocampus. Neuron, 112(21), 3651.

Serikov A, et al. (2024) Protocol for in??vivo dual-color fiber photometry in the mouse thalamus. STAR protocols, 5(2), 102931.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. Cell reports, 42(2), 112118.

Shin A, et al. (2023) A brainstem-to-mediodorsal thalamic pathway mediates sound-induced arousal from slow-wave sleep. Current biology : CB, 33(5), 875.

Kilonzo K, et al. (2022) Distinct contributions of GluA1-containing AMPA receptors of different hippocampal subfields to salience processing, memory and impulse control. Translational psychiatry, 12(1), 102.

Zutshi I, et al. (2022) Extrinsic control and intrinsic computation in the hippocampal CA1 circuit. Neuron, 110(4), 658.

Szabo GG, et al. (2022) Ripple-selective GABAergic projection cells in the hippocampus. Neuron, 110(12), 1959.

van der Veldt S, et al. (2021) Conjunctive spatial and self-motion codes are topographically organized in the GABAergic cells of the lateral septum. PLoS biology, 19(8), e3001383.

Dong C, et al. (2021) Distinct place cell dynamics in CA1 and CA3 encode experience in new environments. Nature communications, 12(1), 2977.

El-Gaby M, et al. (2021) An emergent neural coactivity code for dynamic memory. Nature neuroscience, 24(5), 694.

Luo L, et al. (2020) Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. Neuron, 106(1), 37.

Ding SL, et al. (2020) Distinct Transcriptomic Cell Types and Neural Circuits of the Subiculum and Prosubiculum along the Dorsal-Ventral Axis. Cell reports, 31(7), 107648.

Keinath AT, et al. (2020) DG-CA3 circuitry mediates hippocampal representations of latent information. Nature communications, 11(1), 3026.