

Resource Summary Report

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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: 20260725T044408+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 [nidm-terms](#) .

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

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

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.

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.

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

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

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

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

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

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.