

Resource Summary Report

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B6J.Cg-Vip^{tm1}(cre)Zjh/AreckJ

RRID:IMSR_JAX:031628

Type: Organism

Proper Citation

RRID:IMSR_JAX:031628

Organism Information

URL: <https://www.jax.org/strain/031628>

Proper Citation: RRID:IMSR_JAX:031628

Description: Mus musculus with name B6J.Cg-Vip^{tm1}(cre)Zjh/AreckJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: vasoactive intestinal polypeptide|; mutant strain|congenic strain: Vip|

Affected Gene: vasoactive intestinal polypeptide|

Genomic Alteration: targeted mutation 1; Z Josh Huang

Catalog Number: JAX:031628

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6J.Cg-Vip^{tm1}(cre)Zjh/AreckJ

Record Creation Time: 20250513T053823+0000

Record Last Update: 20260725T044524+0000

Ratings and Alerts

No rating or validation information has been found for B6J.Cg-Vip^{tm1}(cre)Zjh/AreckJ.

No alerts have been found for B6J.Cg-Vip^{tm1}(cre)Zjh/AreckJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Jab?o?ska J, et al. (2025) NMDA-Dependent Coplasticity in VIP Interneuron-Driven Inhibitory Circuits. *Journal of neurochemistry*, 169(6), e70117.

Stoiljkovic M, et al. (2025) Mitofusin 2 controls mitochondrial and synaptic dynamics of suprachiasmatic VIP neurons and related circadian rhythms. *The Journal of clinical investigation*, 135(13).

Rolle K, et al. (2025) VIP interneuron activity during sleep conveys the cortical infraslow oscillation. *Cell reports*, 44(12), 116669.

Hiroki CH, et al. (2025) Nociceptor neurons suppress alveolar macrophage-induced Siglec-F+ neutrophil-mediated inflammation to protect against pulmonary fibrosis. *Immunity*, 58(8), 2054.

Bennett C, et al. (2024) SHIELD: Skull-shaped hemispheric implants enabling large-scale electrophysiology datasets in the mouse brain. *Neuron*, 112(17), 2869.

Myers-Joseph D, et al. (2024) Disinhibition by VIP interneurons is orthogonal to cross-modal attentional modulation in primary visual cortex. *Neuron*, 112(4), 628.

Zhang Y, et al. (2024) Long-term mesoscale imaging of 3D intercellular dynamics across a mammalian organ. *Cell*, 187(21), 6104.

Jiang YQ, et al. (2024) Hypothalamic regulation of hippocampal CA1 interneurons by the supramammillary nucleus. *Cell reports*, 43(11), 114898.

Bilash OM, et al. (2023) Lateral entorhinal cortex inputs modulate hippocampal dendritic excitability by recruiting a local disinhibitory microcircuit. *Cell reports*, 42(1), 111962.

Negwer M, et al. (2022) FriendlyClearMap: an optimized toolkit for mouse brain mapping and analysis. *GigaScience*, 12.

Lei C, et al. (2022) Enteric VIP-producing neurons maintain gut microbiota homeostasis through regulating epithelium fucosylation. *Cell host & microbe*, 30(10), 1417.

Bertero A, et al. (2021) Corticofugal VIP Gabaergic Projection Neurons in the Mouse Auditory and Motor Cortex. *Frontiers in neural circuits*, 15, 714780.

Graham K, et al. (2021) Hippocampal and thalamic afferents form distinct synaptic microcircuits in the mouse infralimbic frontal cortex. *Cell reports*, 37(3), 109837.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Roy DS, et al. (2021) Anterior thalamic dysfunction underlies cognitive deficits in a subset of neuropsychiatric disease models. *Neuron*, 109(16), 2590.

Lee BR, et al. (2021) Scaled, high fidelity electrophysiological, morphological, and transcriptomic cell characterization. *eLife*, 10.

Pu?cian A, et al. (2020) NMDAR-Dependent Emergence of Behavioral Representation in Primary Visual Cortex. *Cell reports*, 32(4), 107970.

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.

Collins B, et al. (2020) Circadian VIPergic Neurons of the Suprachiasmatic Nuclei Sculpt the Sleep-Wake Cycle. *Neuron*, 108(3), 486.

Shan Y, et al. (2020) Dual-Color Single-Cell Imaging of the Suprachiasmatic Nucleus Reveals a Circadian Role in Network Synchrony. *Neuron*, 108(1), 164.