Resource Summary Report

Generated by dkNET on Sep 6, 2026

B6.129(Cg)-Arc$^{tm1.1(cre/ERT2)Luo}$/J

RRID:IMSR_JAX:021881
Type: Organism

Proper Citation

RRID:IMSR_JAX:021881

Organism Information

URL: https://www.jax.org/strain/021881

Proper Citation: RRID:IMSR_JAX:021881

Description: Mus musculus with name B6.129(Cg)-Arc$^{tm1.1(cre/ERT2)Luo}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|activity regulated cytoskeletal-associated protein; mutant strain|congenic strain: cre/ERT2|Arc

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|activity regulated cytoskeletal-associated protein

Genomic Alteration: targeted mutation 1.1; Liqun Luo

Catalog Number: JAX:021881

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129(Cg)-Arc$^{tm1.1(cre/ERT2)Luo}$/J

Record Creation Time: 20250513T053744+0000

Record Last Update: 20260905T044525+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(Cg)-Arc$^{tm1.1(cre/ERT2)Luo}$/J.

No alerts have been found for B6.129(Cg)-Arc$^{tm1.1(cre/ERT2)Luo}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Xie X, et al. (2026) Dual-engram architecture within a single striatal cell type distinctly controls alcohol relapse and extinction. Neuron, 114(12), 2148.

Folkes OM, et al. (2026) Social Novelty Recruits a Dysfunctional Nucleus Accumbens Ensemble That Drives Social Avoidance in a Shank3 -/- Autism Model. bioRxiv : the preprint server for biology.

Sun Y, et al. (2025) Motor learning drives region-specific transcriptomic remodeling in the motor cortex and dorsal striatum. bioRxiv : the preprint server for biology.

Xie X, et al. (2023) Activity-dependent labeling and manipulation of fentanyl-recruited striatal ensembles using ArcTRAP approach. STAR protocols, 4(3), 102369.

Fan X, et al. (2022) Noradrenergic signaling mediates cortical early tagging and storage of remote memory. Nature communications, 13(1), 7623.

Cho HY, et al. (2021) Turnover of fear engram cells by repeated experience. Current biology : CB, 31(24), 5450.

Choi JE, et al. (2020) Capturing activated neurons and synapses. Neuroscience research, 152, 25.

Wall NR, et al. (2019) Complementary Genetic Targeting and Monosynaptic Input Mapping Reveal Recruitment and Refinement of Distributed Corticostriatal Ensembles by Cocaine. Neuron, 104(5), 916.

Guskjolen A, et al. (2018) Recovery of "Lost" Infant Memories in Mice. Current biology : CB, 28(14), 2283.

Epp JR, et al. (2015) Optimization of CLARITY for Clearing Whole-Brain and Other Intact Organs. eNeuro, 2(3).