

Resource Summary Report

Generated by SPARC SAWG on Aug 29, 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: activity regulated cytoskeletal-associated protein|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant strain|congenic strain: Arc|cre/ERT2

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

Genomic Alteration: targeted mutation 1.1; Liquan 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: 20260829T045046+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 [SPARC SAWG](#) .

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).