# Resource Summary Report

Generated by NIF on Sep 20, 2026

## pCAG-CreERT2

RRID:Addgene_14797
Type: Plasmid

### Proper Citation

RRID:Addgene_14797

### Plasmid Information

**URL:** http://www.addgene.org/14797

**Proper Citation:** RRID:Addgene_14797

**Insert Name:** Cre-ERT2 fusion protein

**Organism:** Bacteriophage P1

**Bacterial Resistance:** Ampicillin

**Defining Citation:** PMID:17209010

**Vector Backbone Description:** Backbone Size:4779; Vector Backbone:pCAGEN; Vector Types:Mammalian Expression, Cre/Lox; Bacterial Resistance:Ampicillin

**Comments:** 4-hydroxitamoxifen-responsible Cre. Kozak consensus sequence was added before the start ATG. The insert can be cut out with EcoRI and NotI.

**Plasmid Name:** pCAG-CreERT2

**Record Creation Time:** 20220422T221825+0000

**Record Last Update:** 20260919T091040+0000

### Ratings and Alerts

No rating or validation information has been found for pCAG-CreERT2.

No alerts have been found for pCAG-CreERT2.

### Data and Source Information

**Source:** Addgene

## Usage and Citation Metrics

We found 50 mentions in open access literature.

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


Pinglay S, et al. (2025) Multiplex generation and single-cell analysis of structural variants in mammalian genomes. Science (New York, N.Y.), 387(6733), eado5978.

Souto EP, et al. (2025) Lineage Tracing and Single-Cell RNA Sequencing Reveal a Common Transcriptional State in Breast Cancer Tumor-Initiating Cells Characterized by IFN/STAT1 Activity. Cancer research, 85(8), 1390.

Fowler JL, et al. (2024) Lineage-tracing hematopoietic stem cell origins in vivo to efficiently make human HLF+ HOXA+ hematopoietic progenitors from pluripotent stem cells. Developmental cell, 59(9), 1110.

Choe MS, et al. (2024) Simple modeling of familial Alzheimer's disease using human pluripotent stem cell-derived cerebral organoid technology. Stem cell research & therapy, 15(1), 118.

Pinglay S, et al. (2024) Multiplex generation and single cell analysis of structural variants in a mammalian genome. bioRxiv : the preprint server for biology.

Sikder K, et al. (2024) Perinuclear damage from nuclear envelope deterioration elicits stress responses that contribute to LMNA cardiomyopathy. Science advances, 10(19), eadh0798.

Sikder K, et al. (2023) Perinuclear damage from nuclear envelope deterioration elicits stress responses that contribute to LMNA cardiomyopathy. bioRxiv : the preprint server for biology.

Fujimoto S, et al. (2023) Activity-dependent local protection and lateral inhibition control synaptic competition in developing mitral cells in mice. Developmental cell, 58(14), 1221.

Lin CH, et al. (2022) Identification of cis-regulatory modules for adeno-associated virus-based cell-type-specific targeting in the retina and brain. The Journal of biological chemistry, 298(4), 101674.

Travnickova J, et al. (2022) Fate mapping melanoma persister cells through regression and into recurrent disease in adult zebrafish. Disease models & mechanisms, 15(9).

Fabra-Beser J, et al. (2021) Differential Expression Levels of Sox9 in Early Neocortical Radial Glial Cells Regulate the Decision between Stem Cell Maintenance and Differentiation. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(33), 6969.

Yamagata M, et al. (2021) A cell atlas of the chick retina based on single-cell transcriptomics. eLife, 10.

Kuwano T, et al. (2021) Generation and characterization of a Meflin-CreERT2 transgenic line for lineage tracing in white adipose tissue. PloS one, 16(3), e0248267.

Castellan M, et al. (2021) Single-cell analyses reveal YAP/TAZ as regulators of stemness and cell plasticity in Glioblastoma. Nature cancer, 2(2), 174.

Ichijo R, et al. (2021) Vasculature-driven stem cell population coordinates tissue scaling in dynamic organs. Science advances, 7(7).

Ishimoto R, et al. (2021) SLX4-XPF mediates DNA damage responses to replication stress induced by DNA-protein interactions. The Journal of cell biology, 220(1).

Kaczmarczyk L, et al. (2021) Slc1a3-2A-CreERT2 mice reveal unique features of Bergmann glia and augment a growing collection of Cre drivers and effectors in the 129S4 genetic background. Scientific reports, 11(1), 5412.

Morikawa K, et al. (2020) Photoactivatable Cre recombinase 3.0 for in vivo mouse applications. Nature communications, 11(1), 2141.

Zhang M, et al. (2020) ?-Catenin safeguards the ground state of mousepluripotency by strengthening the robustness of the transcriptional apparatus. Science advances, 6(29), eaba1593.

Sánchez-González R, et al. (2020) Cell Fate Potential of NG2 Progenitors. Scientific reports, 10(1), 9876.