

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

AAV pCAG-FLEX-mScarlet-WPRE

RRID:Addgene_99280

Type: Plasmid

Proper Citation

RRID:Addgene_99280

Plasmid Information

URL: <http://www.addgene.org/99280>

Proper Citation: RRID:Addgene_99280

Insert Name: mScarlet

Organism: Synthetic

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Hongkui Zeng/Allen Institute For Brain Science; Backbone Size:5719; Vector Backbone:AAV pCAG-FLEX-tdTomato-WPRE (Addgene #51503); Vector Types:AAV, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: The stop codon for mRuby3 ends 24 bp downstream of the gene, adding an additional 8 amino acids to the protein. However, this is not expected to impact the function of the protein.

Plasmid Name: AAV pCAG-FLEX-mScarlet-WPRE

Record Creation Time: 20220422T222633+0000

Record Last Update: 20260815T082244+0000

Ratings and Alerts

No rating or validation information has been found for AAV pCAG-FLEX-mScarlet-WPRE.

No alerts have been found for AAV pCAG-FLEX-mScarlet-WPRE.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Schnaubelt A, et al. (2025) Development of a Lentiviral Reporter System for In Vitro Reprogramming of Astrocytes to Neuronal Precursors. *Biology*, 14(7).

Roshgadol JI, et al. (2025) Sensitive dLight3 for imaging broad-spectrum dopamine events across brain regions. *Research square*.

Verkest C, et al. (2025) Cluster nanoarchitecture and structural diversity of PIEZO1 at rest and during activation in intact cells. *Science advances*, 11(43), eady8052.

Puglisi M, et al. (2024) Comparing Viral Vectors and Fate Mapping Approaches for Astrocyte-to-Neuron Reprogramming in the Injured Mouse Cerebral Cortex. *Cells*, 13(17).

Wu M, et al. (2024) Dopamine pathways mediating affective state transitions after sleep loss. *Neuron*, 112(1), 141.

Patel VR, et al. (2021) Single-molecule imaging with cell-derived nanovesicles reveals early binding dynamics at a cyclic nucleotide-gated ion channel. *Nature communications*, 12(1), 6459.

Born G, et al. (2021) Corticothalamic feedback sculpts visual spatial integration in mouse thalamus. *Nature neuroscience*, 24(12), 1711.