

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

pAAV-Syn-CoChR-GFP

RRID:Addgene_59070

Type: Plasmid

Proper Citation

RRID:Addgene_59070

Plasmid Information

URL: <http://www.addgene.org/59070>

Proper Citation: RRID:Addgene_59070

Insert Name: CoChR-GFP

Organism: Chloromonas oogama

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24509633](#)

Vector Backbone Description: Backbone Size:4368; Vector Backbone:AAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Plasmid is completely sequenced by the depositing lab except for part of the 3' ITR. Addgene QC NGS analysis identifies ambiguous bases following the 3' ITR. It is unknown what, if any, impact this may have on plasmid function.

Plasmid Name: pAAV-Syn-CoChR-GFP

Record Creation Time: 20220422T222341+0000

Record Last Update: 20260815T081720+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Syn-CoChR-GFP.

No alerts have been found for pAAV-Syn-CoChR-GFP.

Data and Source Information

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Wang T, et al. (2026) Inwardly rectifying potassium channels promote directional sensing during neutrophil chemotaxis. *The Journal of cell biology*, 225(1).

Velez-Angel N, et al. (2025) Optogenetic interrogation of the lateral-line sensory system reveals mechanisms of pattern separation in the zebrafish brain. *bioRxiv : the preprint server for biology*.

Zhou S, et al. (2025) A Sensitive Soma-localized Red Fluorescent Calcium Indicator for Multi-Modality Imaging of Neuronal Populations In Vivo. *bioRxiv : the preprint server for biology*.

Wang T, et al. (2025) Inwardly rectifying potassium channels regulate membrane potential polarization and direction sensing during neutrophil chemotaxis. *bioRxiv : the preprint server for biology*.

Kim S, et al. (2025) Optogenetic mitochondrial preconditioning enhances cardiomyocyte survival under stress. *Journal of molecular and cellular cardiology*, 205, 24.

Chen K, et al. (2024) An Innovative Mitochondrial-targeted Gene Therapy for Cancer Treatment. *bioRxiv : the preprint server for biology*.

Chen K, et al. (2024) mLumiOpto Is a Mitochondrial-Targeted Gene Therapy for Treating Cancer. *Cancer research*, 84(23), 4049.

Pan YK, et al. (2024) Developing zebrafish utilize taste-signaling pathways for oxygen chemoreception. *Current biology : CB*, 34(18), 4272.

Forli A, et al. (2021) Optogenetic strategies for high-efficiency all-optical interrogation using blue-light-sensitive opsins. *eLife*, 10.

Antinucci P, et al. (2020) A calibrated optogenetic toolbox of stable zebrafish opsin lines. *eLife*, 9.

Antinucci P, et al. (2019) Pretectal neurons control hunting behaviour. *eLife*, 8.