

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

pCAG-Archon1-KGC-EGFP-ER2-WPRE

RRID:Addgene_108423

Type: Plasmid

Proper Citation

RRID:Addgene_108423

Plasmid Information

URL: <http://www.addgene.org/108423>

Proper Citation: RRID:Addgene_108423

Insert Name: Archon1-KGC-EGFP-ER2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29483642](#)

Vector Backbone Description: Vector Backbone:pCAG-WPRE; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Addgene QC NGS identified some sequence discrepancies in the plasmid backbone, relative to the depositing lab's provided sequence. Please see the Sequences webpage for additional information.

Plasmid Name: pCAG-Archon1-KGC-EGFP-ER2-WPRE

Record Creation Time: 20220422T221526+0000

Record Last Update: 20260725T073441+0000

Ratings and Alerts

No rating or validation information has been found for pCAG-Archon1-KGC-EGFP-ER2-WPRE.

No alerts have been found for pCAG-Archon1-KGC-EGFP-ER2-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 [PRECISE-TBI](#) .

Berndt A, et al. (2024) Ultra-fast genetically encoded sensor for precise real-time monitoring of physiological and pathophysiological peroxide dynamics. Research square.

Lee JD, et al. (2024) Far-red and sensitive sensor for monitoring real time H₂O₂ dynamics with subcellular resolution and in multi-parametric imaging applications. bioRxiv : the preprint server for biology.

Lee JD, et al. (2024) Structure-guided engineering of a fast genetically encoded sensor for real-time H₂O₂ monitoring. bioRxiv : the preprint server for biology.

Berndt A, et al. (2024) Far-red and sensitive sensor for monitoring real time H₂O₂ dynamics with subcellular resolution and in multi-parametric imaging applications. Research square.

Wait SJ, et al. (2023) Machine Learning Ensemble Directed Engineering of Genetically Encoded Fluorescent Calcium Indicators. Research square.

Ganapathy S, et al. (2023) Expanding the family of genetically encoded voltage indicators with a candidate Heliorhodopsin exhibiting near-infrared fluorescence. The Journal of biological chemistry, 299(6), 104771.

Silapetere A, et al. (2022) QuasAr Odyssey: the origin of fluorescence and its voltage sensitivity in microbial rhodopsins. Nature communications, 13(1), 5501.