

Resource Summary Report

Generated by [RRID](#) on Sep 3, 2026

cytoplasmic EKAR (EGFP-mRFP)

RRID:Addgene_18680

Type: Plasmid

Proper Citation

RRID:Addgene_18680

Plasmid Information

URL: <http://www.addgene.org/18680>

Proper Citation: RRID:Addgene_18680

Insert Name: ERK Activity Reporter

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19033456](#)

Vector Backbone Description: Backbone Marker:Promega; Backbone Size:4000; Vector Backbone:pCI; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: cytoplasmic EKAR (EGFP-mRFP)

Record Creation Time: 20220422T222041+0000

Record Last Update: 20260902T043234+0000

Ratings and Alerts

No rating or validation information has been found for cytoplasmic EKAR (EGFP-mRFP).

No alerts have been found for cytoplasmic EKAR (EGFP-mRFP).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Kim H, et al. (2023) Increased intracellular diffusivity of macromolecules within a mammalian cell by low-intensity pulsed ultrasound. *Ultrasonics sonochemistry*, 100, 106644.

Bang S, et al. (2021) Activation of GPR37 in macrophages confers protection against infection-induced sepsis and pain-like behaviour in mice. *Nature communications*, 12(1), 1704.

Roberts MJ, et al. (2021) Inhibition of the Proliferation of Human Lung Fibroblasts by Prostacyclin Receptor Agonists is Linked to a Sustained cAMP Signal in the Nucleus. *Frontiers in pharmacology*, 12, 669227.

Andres-Alonso M, et al. (2019) SIPA1L2 controls trafficking and local signaling of TrkB-containing amphisomes at presynaptic terminals. *Nature communications*, 10(1), 5448.

Civciristov S, et al. (2019) Ligand-dependent spatiotemporal signaling profiles of the μ -opioid receptor are controlled by distinct protein-interaction networks. *The Journal of biological chemistry*, 294(44), 16198.

Civciristov S, et al. (2018) Preassembled GPCR signaling complexes mediate distinct cellular responses to ultralow ligand concentrations. *Science signaling*, 11(551).

Tang S, et al. (2017) Imaging ERK and PKA Activation in Single Dendritic Spines during Structural Plasticity. *Neuron*, 93(6), 1315.

Halls ML, et al. (2016) Plasma membrane localization of the μ -opioid receptor controls spatiotemporal signaling. *Science signaling*, 9(414), ra16.

Jensen DD, et al. (2014) Endothelin-converting enzyme 1 and μ -arrestins exert spatiotemporal control of substance P-induced inflammatory signals. *The Journal of biological chemistry*, 289(29), 20283.