

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

GFP-ERK2

RRID:Addgene_37145

Type: Plasmid

Proper Citation

RRID:Addgene_37145

Plasmid Information

URL: <http://www.addgene.org/37145>

Proper Citation: RRID:Addgene_37145

Insert Name: ERK2

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:10521408](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: GFP-ERK2

Relevant Mutation: aa1-6 deleted as a result of cloning strategy

Record Creation Time: 20220422T222157+0000

Record Last Update: 20260815T081413+0000

Ratings and Alerts

No rating or validation information has been found for GFP-ERK2.

No alerts have been found for GFP-ERK2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Zent KH, et al. (2025) Synapse-to-Nucleus ERK/CREB Transcriptional Signaling Requires Dendrite-to-Soma Ca²⁺ Propagation Mediated by L-Type Voltage-Gated Ca²⁺ Channels. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(4).

Rahman SMT, et al. (2023) On the inference of ERK signaling dynamics from protein biosensor measurements. Molecular biology of the cell, 34(6), ar60.

Degroot GN, et al. (2022) The Atypical Chemerin Receptor GPR1 Displays Different Modes of Interaction with β -Arrestins in Humans and Mice with Important Consequences on Subcellular Localization and Trafficking. Cells, 11(6).

Cheng P, et al. (2021) Direct control of store-operated calcium channels by ultrafast laser. Cell research, 31(7), 758.

Redchuk TA, et al. (2020) Optogenetic regulation of endogenous proteins. Nature communications, 11(1), 605.

Giacomini C, et al. (2016) Lamin B1 protein is required for dendrite development in primary mouse cortical neurons. Molecular biology of the cell, 27(1), 35.