

Resource Summary Report

Generated by [dkNET](#) on Aug 17, 2026

pLentiEKAR2G2

RRID:Addgene_40178

Type: Plasmid

Proper Citation

RRID:Addgene_40178

Plasmid Information

URL: <http://www.addgene.org/40178>

Proper Citation: RRID:Addgene_40178

Insert Name: Erk activity reporter

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23882122](#)

Vector Backbone Description: Backbone Marker:unknown; Backbone Size:7711; Vector Backbone:pLenti pRRL-SV40(puro)_CMV(mcs); Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: A genetically encoded fluorescent sensor of ERK activity. 2008. PNAS 205(49)

Plasmid Name: pLentiEKAR2G2

Record Creation Time: 20220422T222209+0000

Record Last Update: 20260815T081434+0000

Ratings and Alerts

No rating or validation information has been found for pLentiEKAR2G2.

No alerts have been found for pLentiEKAR2G2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Socodato R, et al. (2023) RhoA balances microglial reactivity and survival during neuroinflammation. *Cell death & disease*, 14(10), 690.

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

Blum Y, et al. (2017) Measuring ERK Activity Dynamics in Single Living Cells Using FRET Biosensors. *Methods in molecular biology* (Clifton, N.J.), 1487, 203.