

Resource Summary Report

Generated by [NIF](#) on Jul 28, 2026

pCDNA3.1(+)-hSyn-HA-mTREK-1(S131C/A286F)-IRES-GFP

RRID:Addgene_225490

Type: Plasmid

Proper Citation

RRID:Addgene_225490

Plasmid Information

URL: <http://www.addgene.org/225490>

Proper Citation: RRID:Addgene_225490

Insert Name: Potassium channel subfamily K member 2

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:39029456](#)

Vector Backbone Description: Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression, Neuronal expression; Bacterial Resistance:Ampicillin

Comments: NOTE: Also known as TREK-1CG* A286F and used in chemogenetic strategy termed CATKLAMP (covalent activation of TREK family K⁺ channels to clamp membrane potential) for irreversibly activating K2P potassium channels and thereby silencing of electrical activity in neurons in the presence of CAT335, a maleimide derivative of the K2P modulator pocket activator ML335.

Plasmid Name: pCDNA3.1(+)-hSyn-HA-mTREK-1(S131C/A286F)-IRES-GFP

Record Creation Time: 20241011T080656+0000

Record Last Update: 20260725T080144+0000

Ratings and Alerts

No rating or validation information has been found for pCDNA3.1(+)-hSyn-HA-mTREK-1(S131C/A286F)-IRES-GFP.

No alerts have been found for pCDNA3.1(+)-hSyn-HA-mTREK-1(S131C/A286F)-IRES-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.