Resource Summary Report

Generated by NIF on Sep 14, 2026

h?1Ga-pDsRed

RRID:Addgene_45811
Type: Plasmid

Proper Citation

RRID:Addgene_45811

Plasmid Information

URL: http://www.addgene.org/45811

Proper Citation: RRID:Addgene_45811

Insert Name: h?1Ga

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pDsRed-Express-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: The Cav3.1 insert retains its STOP codon, so there is no expression of the Ds-Red. The 5'UTR is gone and contains a new SalI site. The 3' end of insert ends in the endogenous Kpn1 site. Identification of Cav3.1 is described in Nature. 1998 Feb 26;391(6670):896-900.

Plasmid Name: h?1Ga-pDsRed

Record Creation Time: 20220422T222236+0000

Record Last Update: 20260912T092740+0000

Ratings and Alerts

No rating or validation information has been found for h?1Ga-pDsRed.

No alerts have been found for h?1Ga-pDsRed.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Tsang AH, et al. (2026) Cav3.1 is a neuronal leucine sensor that mediates satiety and weight loss in response to dietary protein. Cell metabolism, 38(5), 876.

McCarthy CI, et al. (2023) Chlorpromazine, an Inverse Agonist of D1R-Like, Differentially Targets Voltage-Gated Calcium Channel (CaV) Subtypes in mPFC Neurons. Molecular neurobiology, 60(5), 2644.

Mustafá ER, et al. (2023) Constitutive activity of the dopamine (D5) receptor, highly expressed in CA1 hippocampal neurons, selectively reduces CaV 3.2 and CaV 3.3 currents. British journal of pharmacology, 180(9), 1210.

Garza-López E, et al. (2020) CaV3.1 channel pore pseudo-symmetry revealed by selectivity filter mutations in its domains I/II. Cell calcium, 89, 102214.

Garza-López E, et al. (2016) Cd(2+) sensitivity and permeability of a low voltage-activated Ca(2+) channel with CatSper-like selectivity filter. Cell calcium, 60(1), 41.