

Resource Summary Report

Generated by [RRID](#) on Aug 17, 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 Sall 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: 20260815T081526+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 [RRID](#) .

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.