

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

pcDNA3-ClopHensor

RRID:Addgene_25938

Type: Plasmid

Proper Citation

RRID:Addgene_25938

Plasmid Information

URL: <http://www.addgene.org/25938>

Proper Citation: RRID:Addgene_25938

Insert Name: ClopHensor

Organism: Aq. Victoria and Discosoma sp

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:20581829](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5363; Vector Backbone:pcDNA3.1(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-ClopHensor

Relevant Mutation: E2GFP is EGFP-T203Y

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260829T080254+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-ClopHensor.

No alerts have been found for pcDNA3-ClopHensor.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Didan Y, et al. (2024) Stress pathway outputs are encoded by pH-dependent clustering of kinase components. *Nature communications*, 15(1), 6614.

Schellinger JN, et al. (2022) Chloride oscillation in pacemaker neurons regulates circadian rhythms through a chloride-sensing WNK kinase signaling cascade. *Current biology : CB*, 32(6), 1429.

Wasiluk T, et al. (2019) Simultaneous expression of ClopHensor and SLC26A3 reveals the nature of endogenous oxalate transport in CHO cells. *Biology open*, 8(4).

Ullrich F, et al. (2019) Identification of TMEM206 proteins as pore of PAORAC/ASOR acid-sensitive chloride channels. *eLife*, 8.

Rossano AJ, et al. (2017) Na⁺ /H⁺ exchange via the *Drosophila* vesicular glutamate transporter mediates activity-induced acid efflux from presynaptic terminals. *The Journal of physiology*, 595(3), 805.

Paredes JM, et al. (2016) Synchronous Bioimaging of Intracellular pH and Chloride Based on LSS Fluorescent Protein. *ACS chemical biology*, 11(6), 1652.

Raimondo JV, et al. (2016) Tight Coupling of Astrocyte pH Dynamics to Epileptiform Activity Revealed by Genetically Encoded pH Sensors. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 36(26), 7002.

Raimondo JV, et al. (2013) A genetically-encoded chloride and pH sensor for dissociating ion dynamics in the nervous system. *Frontiers in cellular neuroscience*, 7, 202.

Raimondo JV, et al. (2012) Genetically encoded proton sensors reveal activity-dependent pH changes in neurons. *Frontiers in molecular neuroscience*, 5, 68.