

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

ArcLight-S249

RRID:Addgene_36855

Type: Plasmid

Proper Citation

RRID:Addgene_36855

Plasmid Information

URL: <http://www.addgene.org/36855>

Proper Citation: RRID:Addgene_36855

Insert Name: fluorescent protein voltage sensor

Organism: Ciona intestinalis

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22958819](#)

Vector Backbone Description: Backbone Size:5694; Vector Backbone:pCS2+; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: <http://www.fluorogenetic-voltage-sensors.org/> This construct is composed of the S1-4 domain of the CiVSP voltage sensor. Super ecliptic pHluorin is inserted at position S249 in the CiVSP sequence.

Plasmid Name: ArcLight-S249

Relevant Mutation: Ci-VSP contains R217Q mutation; super ecliptic pHluorin contains A227D mutation

Record Creation Time: 20220422T222156+0000

Record Last Update: 20260815T081410+0000

Ratings and Alerts

No rating or validation information has been found for ArcLight-S249.

No alerts have been found for ArcLight-S249.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Platasa J, et al. (2017) Directed Evolution of Key Residues in Fluorescent Protein Inverses the Polarity of Voltage Sensitivity in the Genetically Encoded Indicator ArcLight. ACS chemical neuroscience, 8(3), 513.