

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pcDNA3.1(+)-NES-ZapCV2 (cpV143)

RRID:Addgene_112060

Type: Plasmid

Proper Citation

RRID:Addgene_112060

Plasmid Information

URL: <http://www.addgene.org/112060>

Proper Citation: RRID:Addgene_112060

Insert Name: NES-ZapCV2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27959493](#)

Vector Backbone Description: Backbone Marker:Invitrogen (ThermoFisher / Life Technologies); Backbone Size:5428; Vector Backbone:pcDNA3.1(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3.1(+)-NES-ZapCV2 (cpV143)

Relevant Mutation: ECFP gene is truncated 36 bp at 3' end. Venus gene is circularly permuted at residue 173. Zap2 zinc binding domain derived from *S. cerevisiae* Zap1 zinc finger domains 1 & 2 with C581H and C618H mutations.

Record Creation Time: 20220422T221546+0000

Record Last Update: 20260815T080157+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1(+)-NES-ZapCV2 (cpV143).

No alerts have been found for pcDNA3.1(+)-NES-ZapCV2 (cpV143).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Drmi?? D, et al. (2026) ZIP3 is essential for the encephalitogenic function of pTh17 cells by regulating intracellular zinc levels. Journal of trace elements in medicine and biology : organ of the Society for Minerals and Trace Elements (GMS), 93, 127819.

Choate KA, et al. (2025) A genetically encoded fluorescent sensor enables sensitive and specific detection of IDH mutant associated oncometabolite D-2-hydroxyglutarate. BMC cancer, 25(1), 473.

Sanford L, et al. (2019) Intracellular Zn²⁺ transients modulate global gene expression in dissociated rat hippocampal neurons. Scientific reports, 9(1), 9411.