

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 13, 2026

AAV-EF1a-DIO-ChIEF(E162A/T198C)-P2A-dTomato-WPRE-BGHpA

RRID:Addgene_51095

Type: Plasmid

Proper Citation

RRID:Addgene_51095

Plasmid Information

URL: <http://www.addgene.org/51095>

Proper Citation: RRID:Addgene_51095

Insert Name: ChIEF(E162A/T198C)

Organism: Synthetic

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:custom; Backbone Size:1047; Vector Backbone:pAAV-EF1a-DIO-WPRE-BGHpA; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: The addition of the E162A and T198C mutations in ChIEF impart higher photocurrent amplitude while retaining fast kinetic properties. This variant is proposed as an alternative to ChETA variants that exhibit smaller photocurrents and more toxicity.

Plasmid Name: AAV-EF1a-DIO-ChIEF(E162A/T198C)-P2A-dTomato-WPRE-BGHpA

Relevant Mutation: E162A/T198C

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260808T081800+0000

Ratings and Alerts

No rating or validation information has been found for AAV-EF1a-DIO-ChIEF(E162A/T198C)-P2A-dTomato-WPRE-BGHpA.

No alerts have been found for AAV-EF1a-DIO-ChIEF(E162A/T198C)-P2A-dTomato-WPRE-BGHpA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.