

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

XE118 CAMKII-T286D-CS2+

RRID:Addgene_16736

Type: Plasmid

Proper Citation

RRID:Addgene_16736

Plasmid Information

URL: <http://www.addgene.org/16736>

Proper Citation: RRID:Addgene_16736

Insert Name: CAMKII-T286D

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10777564](#)

Vector Backbone Description: Backbone Size:4095; Vector Backbone:pcS2+; Vector Types:Xenopus Expression; Bacterial Resistance:Ampicillin

Comments: Description: Constitutively active CAMKII (threonine 286 mutated to aspartate) provided by H. Schulman (Vanderbilt) subcloned into the EcoRI site of CS2+. Linearize with Not 1 and transcribe with SP6. Ref: M. Kuehl et al., JBC 275:12701-12711, 2000.

Plasmid Name: XE118 CAMKII-T286D-CS2+

Relevant Mutation: threonine 286 mutated to aspartate

Record Creation Time: 20220422T221940+0000

Record Last Update: 20260815T080943+0000

Ratings and Alerts

No rating or validation information has been found for XE118 CAMKII-T286D-CS2+.

No alerts have been found for XE118 CAMKII-T286D-CS2+.

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](#) .

Guo X, et al. (2021) Preservation of vision after CaMKII-mediated protection of retinal ganglion cells. *Cell*, 184(16), 4299.

Wang H, et al. (2018) The Osteogenic Niche Is a Calcium Reservoir of Bone Micrometastases and Confers Unexpected Therapeutic Vulnerability. *Cancer cell*, 34(5), 823.

Duran J, et al. (2017) Ca²⁺/Calmodulin-Dependent Protein Kinase II and Androgen Signaling Pathways Modulate MEF2 Activity in Testosterone-Induced Cardiac Myocyte Hypertrophy. *Frontiers in pharmacology*, 8, 604.