

Resource Summary Report

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

pcDNA3.1+/ER-2mutAEQ

RRID:Addgene_45541

Type: Plasmid

Proper Citation

RRID:Addgene_45541

Plasmid Information

URL: <http://www.addgene.org/45541>

Proper Citation: RRID:Addgene_45541

Insert Name: ER-2mutAEQ

Organism: jellyfish

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22671130](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3.1+; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: The 2600bp ER-targeting sequence is unknown and represented by a series of G in the sequence of the plasmid. Note that numbering of the aequorin mutations in this plasmid is relative to the valine at position 8 in the original sequence from Inouye et al., PNAS 82, 3154 (1985) PubMed ID: 3858813. When compared to this sequence (GenBank ID AAA27720.1) the mutations at N28L and D119A would correspond to N35L and D126A.

Plasmid Name: pcDNA3.1+/ER-2mutAEQ

Relevant Mutation: Asp119Ala and Asn28Leu

Record Creation Time: 20220422T222235+0000

Record Last Update: 20260829T080558+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1+/ER-2mutAEQ.

No alerts have been found for pcDNA3.1+/ER-2mutAEQ.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.