

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

Venus-BimEL-4E-pEGFP-C1

RRID:Addgene_166742

Type: Plasmid

Proper Citation

RRID:Addgene_166742

Plasmid Information

URL: <http://www.addgene.org/166742>

Proper Citation: RRID:Addgene_166742

Insert Name: BimEL-4E

Organism: Mus musculus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:30860026](#)

Vector Backbone Description: Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Transfection of this plasmid will express "VBimEL-4E" (Venus fused to the N-terminus of the BH3-only protein, BimEL-4E) in live cells. There is a 3 amino acid flexible linker between Venus and BimEL-4E proteins. BH3 region has hydrophobic positions H1-H4 mutated to glutamic acid (E), referred to as "BH3-4E" mutation, BH3 mutations: I146E, L150E, I153E, F157E. When compared with EYFP, Venus fluorophore contains the following mutations: F46L, F64L, M153T, V163A and S175G. This Venus protein contains an F224R mutation to make it monomeric.

Plasmid Name: Venus-BimEL-4E-pEGFP-C1

Relevant Mutation: 4 hydrophobic residues in the BH3 region mutated to glutamic acid: I146E, L150E, I153E, F157E.

Record Creation Time: 20220422T221938+0000

Record Last Update: 20260725T074211+0000

Ratings and Alerts

No rating or validation information has been found for Venus-BimEL-4E-pEGFP-C1.

No alerts have been found for Venus-BimEL-4E-pEGFP-C1.

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 [NIF](#) .

Osterlund EJ, et al. (2022) Efficacy and specificity of inhibitors of BCL-2 family protein interactions assessed by affinity measurements in live cells. Science advances, 8(16), eabm7375.