

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

pEF.myc.ER-E2-Crimson

RRID:Addgene_38770

Type: Plasmid

Proper Citation

RRID:Addgene_38770

Plasmid Information

URL: <http://www.addgene.org/38770>

Proper Citation: RRID:Addgene_38770

Insert Name: E2-Crimson

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19658435](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5603; Vector Backbone:pEF/myc/ER; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Vector for targeting E2-Crimson to the ER in mammalian cells. Substitutions in E2-Crimson relative to DsRed-Express2 are: E32V, Q66F, V71A, V73I, K83L, L85Q, F118L, L150N, I161N, K163M, V175C, Y193H, S197Y IMPORTANT NOTE: There is an 82-bp intron after the ER signal sequence. The signal sequence will be in frame with the final product.

Plasmid Name: pEF.myc.ER-E2-Crimson

Record Creation Time: 20220422T222202+0000

Record Last Update: 20260815T081421+0000

Ratings and Alerts

No rating or validation information has been found for pEF.myc.ER-E2-Crimson.

No alerts have been found for pEF.myc.ER-E2-Crimson.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Novo CL, et al. (2022) Satellite repeat transcripts modulate heterochromatin condensates and safeguard chromosome stability in mouse embryonic stem cells. *Nature communications*, 13(1), 3525.

Bonilla-Pons SÀ, et al. (2022) Müller glia fused with adult stem cells undergo neural differentiation in human retinal models. *EBioMedicine*, 77, 103914.

Kramarski L, et al. (2020) Translational read-through promotes aggregation and shapes stop codon identity. *Nucleic acids research*, 48(7), 3747.

Lee JH, et al. (2019) Parkinson's disease-associated LRRK2-G2019S mutant acts through regulation of SERCA activity to control ER stress in astrocytes. *Acta neuropathologica communications*, 7(1), 68.

Rodriguez-Muela N, et al. (2018) Blocking p62-dependent SMN degradation ameliorates spinal muscular atrophy disease phenotypes. *The Journal of clinical investigation*, 128(7), 3008.

Lin CC, et al. (2018) A cleavage product of Polycystin-1 is a mitochondrial matrix protein that affects mitochondria morphology and function when heterologously expressed. *Scientific reports*, 8(1), 2743.

Ji WK, et al. (2017) Receptor-mediated Drp1 oligomerization on endoplasmic reticulum. *The Journal of cell biology*, 216(12), 4123.

Schmitt CE, et al. (2017) Fluorescent tagged episomals for stoichiometric induced pluripotent stem cell reprogramming. *Stem cell research & therapy*, 8(1), 132.

Sun J, et al. (2017) A Wntless-SEC12 complex on the ER membrane regulates early Wnt secretory vesicle assembly and mature ligand export. *Journal of cell science*, 130(13), 2159.

Ingouff M, et al. (2017) Live-cell analysis of DNA methylation during sexual reproduction in *Arabidopsis* reveals context and sex-specific dynamics controlled by noncanonical RdDM. *Genes & development*, 31(1), 72.

Palayret M, et al. (2015) Virtual-'light-sheet' single-molecule localisation microscopy enables quantitative optical sectioning for super-resolution imaging. *PloS one*, 10(4), e0125438.