

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

XE240 Fz1-ER-GFP

RRID:Addgene_16815

Type: Plasmid

Proper Citation

RRID:Addgene_16815

Plasmid Information

URL: <http://www.addgene.org/16815>

Proper Citation: RRID:Addgene_16815

Insert Name: Fz1-ER-GFP

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:14688793](#)

Vector Backbone Description: Backbone Size:4095; Vector Backbone:pCS2+; Vector Types:Xenopus Expression; Bacterial Resistance:Ampicillin

Comments: This is a fusion protein consisting of a FKBP domain at the amino terminus of rat Frizzled 1, and GFP at the C terminus. The expression of the protein is under the control of a CMV promoter. Once expressed the fusion protein enters the endoplasmic reticulum, where it remains trapped (and acts as a dominant negative Frizzled by trapping endogenous Frizzleds) unless one adds proprietary Ariad small molecule reagents that bind to and unfold the FKBP domain, allowing proteolysis and then processing and membrane targeting of the Frizzled 1. Note that the Frizzleds interact in a homo and heteromeric manner. Reference: A. Kaykas et al., 2004, Nature Cell Biology vol. 6, pp. 52-58.

Plasmid Name: XE240 Fz1-ER-GFP

Relevant Mutation: F36M in FKBP

Record Creation Time: 20220422T221944+0000

Record Last Update: 20260725T074223+0000

Ratings and Alerts

No rating or validation information has been found for XE240 Fz1-ER-GFP.

No alerts have been found for XE240 Fz1-ER-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.