

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

XE239 Fz1-ER

RRID:Addgene_16816

Type: Plasmid

Proper Citation

RRID:Addgene_16816

Plasmid Information

URL: <http://www.addgene.org/16816>

Proper Citation: RRID:Addgene_16816

Insert Name: Fz1-ER

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. 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. Notes for Use: Construct is 8251bp, made 9/16/02 by Ajamete, and also called Fz1-ER/AKA pC4FZ1agg. Reference: A. Kaykas et al., 2004, Nature Cell Biology vol. 6, pp. 52-58.

Plasmid Name: XE239 Fz1-ER

Record Creation Time: 20220422T221944+0000

Record Last Update: 20260725T074223+0000

Ratings and Alerts

No rating or validation information has been found for XE239 Fz1-ER.

No alerts have been found for XE239 Fz1-ER.

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](#) .

Saito-Diaz K, et al. (2018) APC Inhibits Ligand-Independent Wnt Signaling by the Clathrin Endocytic Pathway. Developmental cell, 44(5), 566.