

Resource Summary Report

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

hIRE1a K599A

RRID:Addgene_20745

Type: Plasmid

Proper Citation

RRID:Addgene_20745

Plasmid Information

URL: <http://www.addgene.org/20745>

Proper Citation: RRID:Addgene_20745

Insert Name: IRE1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18286202](#)

Vector Backbone Description: Backbone Marker:Eric Campeau (Addgene plasmid 17293); Backbone Size:9594; Vector Backbone:pLenti CMV/TO Puro DEST (670-1); Vector Types:Mammalian Expression, Lentiviral, Gateway Cloning; Bacterial Resistance:Ampicillin

Comments: IRE1a cDNA was cut out of pENTR1A with EcoRI and XhoI and ligated into pLenti CMV/TO Puro DEST through Gateway cloning.

Plasmid Name: hIRE1a K599A

Relevant Mutation: K599A, dominant negative kinase mutant

Record Creation Time: 20220422T222052+0000

Record Last Update: 20260829T080158+0000

Ratings and Alerts

No rating or validation information has been found for hIRE1a K599A.

No alerts have been found for hIRE1a K599A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Ahmed N, et al. (2024) TurboID-Based IRE1 Interactome Reveals Participants of the Endoplasmic Reticulum-Associated Protein Degradation Machinery in the Human Mast Cell Leukemia Cell Line HMC-1.2. *Cells*, 13(9).

Hernández-Gea V, et al. (2013) Endoplasmic reticulum stress induces fibrogenic activity in hepatic stellate cells through autophagy. *Journal of hepatology*, 59(1), 98.

Lim MP, et al. (2011) Cannabidiol causes activated hepatic stellate cell death through a mechanism of endoplasmic reticulum stress-induced apoptosis. *Cell death & disease*, 2(6), e170.