

Resource Summary Report

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

hIRE1a wt

RRID:Addgene_20744

Type: Plasmid

Proper Citation

RRID:Addgene_20744

Plasmid Information

URL: <http://www.addgene.org/20744>

Proper Citation: RRID:Addgene_20744

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 wt

Record Creation Time: 20220422T222052+0000

Record Last Update: 20260725T074420+0000

Ratings and Alerts

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

No alerts have been found for hIRE1a wt.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Pandey J, et al. (2025) The PERK/ATF4 pathway is required for metabolic reprogramming and progressive lung fibrosis. JCI insight, 10(10).

Rohde C, et al. (2019) Marburg virus regulates the IRE1/XBP1-dependent unfolded protein response to ensure efficient viral replication. Emerging microbes & infections, 8(1), 1300.

Wheeler MA, et al. (2019) Environmental Control of Astrocyte Pathogenic Activities in CNS Inflammation. Cell, 176(3), 581.

Fink SL, et al. (2017) IRE1 γ promotes viral infection by conferring resistance to apoptosis. Science signaling, 10(482).

Qi Y, et al. (2015) Sphingosine Kinase 1 Protects Hepatocytes from Lipotoxicity via Down-regulation of IRE1 γ Protein Expression. The Journal of biological chemistry, 290(38), 23282.

Son SM, et al. (2014) Reduced IRE1 γ mediates apoptotic cell death by disrupting calcium homeostasis via the InsP3 receptor. Cell death & disease, 5(4), e1188.