

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

pcDNA3.1(+)-GRP78/BiP

RRID:Addgene_32701

Type: Plasmid

Proper Citation

RRID:Addgene_32701

Plasmid Information

URL: <http://www.addgene.org/32701>

Proper Citation: RRID:Addgene_32701

Insert Name: GRP78/BiP

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11375416](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: The D238G point mutation found in the Addgene sequence is a known variation in human GRP78 that does not alter its chaperone or ATPase activities.

Plasmid Name: pcDNA3.1(+)-GRP78/BiP

Record Creation Time: 20220422T222142+0000

Record Last Update: 20260808T081538+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1(+)-GRP78/BiP.

No alerts have been found for pcDNA3.1(+)-GRP78/BiP.

Data and Source Information

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Allu PKR, et al. (2022) Functional Gly297Ser Variant of the Physiological Dysglycemic Peptide Pancreastatin Is a Novel Risk Factor for Cardiometabolic Disorders. *Diabetes*, 71(3), 538.

Ei ZZ, et al. (2021) GRP78/BiP determines senescence evasion cell fate after cisplatin-based chemotherapy. *Scientific reports*, 11(1), 22448.

Saura-Esteller J, et al. (2021) Activation of the Integrated Stress Response and ER Stress Protect from Fluorizoline-Induced Apoptosis in HEK293T and U2OS Cell Lines. *International journal of molecular sciences*, 22(11).

Yamato H, et al. (2021) Combined application of geranylgeranylacetone and amelogenin promotes angiogenesis and wound healing in human periodontal ligament cells. *Journal of cellular biochemistry*, 122(7), 716.

Šereš M, et al. (2020) Overexpression of GRP78/BiP in P-Glycoprotein-Positive L1210 Cells is Responsible for Altered Response of Cells to Tunicamycin as a Stressor of the Endoplasmic Reticulum. *Cells*, 9(4).

Cicalese S, et al. (2020) 78 kDa Glucose-Regulated Protein Attenuates Protein Aggregation and Monocyte Adhesion Induced by Angiotensin II in Vascular Cells. *International journal of molecular sciences*, 21(14).

Tang X, et al. (2020) Therapeutic potential of targeting HSPA5 through dual regulation of two candidate prognostic biomarkers ANXA1 and PSAT1 in osteosarcoma. *Aging*, 13(1), 1212.

Machihara K, et al. (2020) Kuanoniamine C stimulates bortezomib-induced cell death via suppression of glucose-regulated protein 78 in osteosarcoma. *Biochemical and biophysical research communications*, 527(1), 289.

Marcus EA, et al. (2020) Helicobacter pylori infection impairs chaperone-assisted maturation of Na-K-ATPase in gastric epithelium. *American journal of physiology. Gastrointestinal and liver physiology*, 318(5), G931.

Shu W, et al. (2020) Regulation of Molecular Chaperone GRP78 by Hepatitis B Virus: Control of Viral Replication and Cell Survival. *Molecular and cellular biology*, 40(3).

Machihara K, et al. (2017) Questiomycin A stimulates sorafenib-induced cell death via suppression of glucose-regulated protein 78. *Biochemical and biophysical research communications*, 492(1), 33.

Zhu S, et al. (2017) HSPA5 Regulates Ferroptotic Cell Death in Cancer Cells. *Cancer research*, 77(8), 2064.

Thon M, et al. (2016) Insulin enhanced leptin-induced STAT3 signaling by inducing GRP78. *Scientific reports*, 6, 34312.

Li JH, et al. (2016) N-linked glycosylation at Asn152 on CD147 affects protein folding and stability: promoting tumour metastasis in hepatocellular carcinoma. *Scientific reports*, 6, 35210.

Zanotto-Filho A, et al. (2016) Alkylating Agent-Induced NRF2 Blocks Endoplasmic Reticulum Stress-Mediated Apoptosis via Control of Glutathione Pools and Protein Thiol Homeostasis. *Molecular cancer therapeutics*, 15(12), 3000.

Zanotto-Filho A, et al. (2016) Combined Gene Expression and RNAi Screening to Identify Alkylation Damage Survival Pathways from Fly to Human. *PloS one*, 11(4), e0153970.