Resource Summary Report

Generated by dkNET on Aug 7, 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: 20260801T081144+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

Source: Addgene

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

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.