

Resource Summary Report

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

pcDNA5/FRT/TO V5 HSPA8

RRID:Addgene_19514

Type: Plasmid

Proper Citation

RRID:Addgene_19514

Plasmid Information

URL: <http://www.addgene.org/19514>

Proper Citation: RRID:Addgene_19514

Insert Name: heat shock 70kDa protein 8

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18686016](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5137; Vector Backbone:pcDNA5/FRT/TO; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Part of the HSP70 gene family Disclaimer: For cloning the various HSP genes, the Stratagene reference RNA for cDNA synthesis was used and genes were amplified from this mixture that originates from 10 different cell lines from different somatic origin and ultimately coming from 10 different individuals. This strategy was used to maximize the chance for the presence of individual HSP transcripts. Users must be aware that this mixture thus represents 20 complete haploid genomes, meaning that for each individual gene there might be polymorphisms that could potentially have functional consequences. The library was sequence verified only for the presence of the correct gene.

Plasmid Name: pcDNA5/FRT/TO V5 HSPA8

Record Creation Time: 20220422T222046+0000

Record Last Update: 20260808T081352+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA5/FRT/TO V5 HSPA8.

No alerts have been found for pcDNA5/FRT/TO V5 HSPA8.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Lin J, et al. (2025) Chaperone-mediated autophagy degrades SERPINA1E342K/?1-antitrypsin Z variant and alleviates cell stress. Autophagy, 21(8), 1662.

Hsiao CT, et al. (2025) Restoration of Shal/KV4 proteostasis and motor function in a Drosophila model of spinocerebellar ataxia type 19/22. Cellular and molecular life sciences : CMLS, 82(1), 181.

Xu X, et al. (2024) Hsc70 promotes anti-tumor immunity by targeting PD-L1 for lysosomal degradation. Nature communications, 15(1), 4237.

Ikami Y, et al. (2022) The two-domain architecture of LAMP2A regulates its interaction with Hsc70. Experimental cell research, 411(1), 112986.

Xu X, et al. (2021) Metformin activates chaperone-mediated autophagy and improves disease pathologies in an Alzheimer disease mouse model. Protein & cell, 12(10), 769.

Fu SJ, et al. (2021) Regulation of CLC-2 Chloride Channel Proteostasis by Molecular Chaperones: Correction of Leukodystrophy-Associated Defect. International journal of molecular sciences, 22(11).

Ryu SW, et al. (2020) Proteome-wide identification of HSP70/HSC70 chaperone clients in human cells. PLoS biology, 18(7), e3000606.

Yu A, et al. (2019) Tau protein aggregates inhibit the protein-folding and vesicular trafficking arms of the cellular proteostasis network. The Journal of biological chemistry, 294(19), 7917.

Kalogeropoulou AF, et al. (2018) P62/SQSTM1 is a novel leucine-rich repeat kinase 2 (LRRK2) substrate that enhances neuronal toxicity. The Biochemical journal, 475(7), 1271.

Peng YJ, et al. (2018) FKBP8 Enhances Protein Stability of the CLC-1 Chloride Channel at the Plasma Membrane. International journal of molecular sciences, 19(12).

Peng YJ, et al. (2016) Regulation of CLC-1 chloride channel biosynthesis by FKBP8 and Hsp90?. Scientific reports, 6, 32444.