Resource Summary Report

Generated by RRID on Aug 25, 2026

FLAG-HSF1

RRID:Addgene_32537
Type: Plasmid

Proper Citation

RRID:Addgene_32537

Plasmid Information

URL: http://www.addgene.org/32537

Proper Citation: RRID:Addgene_32537

Insert Name: HSF1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12917326

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Please note that mutation P448L in HSF1 was found during Addgene's quality control. This plasmid should function as reported in the associated publication.

Plasmid Name: FLAG-HSF1

Relevant Mutation: see depositor comments below

Record Creation Time: 20220422T222141+0000

Record Last Update: 20260815T081342+0000

Ratings and Alerts

No rating or validation information has been found for FLAG-HSF1.

No alerts have been found for FLAG-HSF1.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Williams I, et al. (2025) MYC and HSF1 Cooperate to Drive Sensitivity to Polo-like Kinase 1 Inhibitor Volasertib in High-grade Serous Ovarian Cancer. Cancer research communications, 5(2), 253.

Palacio M, et al. (2025) Real-time visualization of reconstituted transcription reveals RNA polymerase II activation mechanisms at single promoters. bioRxiv : the preprint server for biology.

Palacio M, et al. (2025) Real-time visualization of reconstituted transcription reveals RNAPII activation mechanisms at single promoters. Cell reports, 44(9), 116251.

Lim CH, et al. (2024) ER Stress-Activated HSF1 Governs Cancer Cell Resistance to USP7 Inhibitor-Based Chemotherapy through the PERK Pathway. International journal of molecular sciences, 25(5).

Huang JR, et al. (2023) Human herpesvirus 6A nuclear matrix protein U37 interacts with heat shock transcription factor 1 and activates the heat shock response. Journal of virology, 97(9), e0071823.

Lu WC, et al. (2022) AKT1 mediates multiple phosphorylation events that functionally promote HSF1 activation. The FEBS journal, 289(13), 3876.

He L, et al. (2022) ErbB2 promotes breast cancer metastatic potential via HSF1/LDHA axis-mediated glycolysis. Medical oncology (Northwood, London, England), 39(4), 45.

Kang H, et al. (2019) HSF1 Regulates Mevalonate and Cholesterol Biosynthesis Pathways. Cancers, 11(9).

Carpenter RL, et al. (2017) Combined inhibition of AKT and HSF1 suppresses breast cancer stem cells and tumor growth. Oncotarget, 8(43), 73947.

Krzemie?-Ojak ?, et al. (2017) Interaction of a Novel Chaperone PhLP2A With the Heat Shock Protein Hsp90. Journal of cellular biochemistry, 118(2), 420.

Dayalan Naidu S, et al. (2016) Heat Shock Factor 1 Is a Substrate for p38 Mitogen-Activated Protein Kinases. Molecular and cellular biology, 36(18), 2403.

Carpenter RL, et al. (2015) Akt phosphorylates and activates HSF-1 independent of heat shock, leading to Slug overexpression and epithelial-mesenchymal transition (EMT) of HER2-overexpressing breast cancer cells. Oncogene, 34(5), 546.

Wang HY, et al. (2013) Hyperthermia stress activates heat shock protein expression via propyl isomerase 1 regulation with heat shock factor 1. Molecular and cellular biology, 33(24), 4889.