

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

Stat3 pcDNA3

RRID:Addgene_8706

Type: Plasmid

Proper Citation

RRID:Addgene_8706

Plasmid Information

URL: <http://www.addgene.org/8706>

Proper Citation: RRID:Addgene_8706

Insert Name: Stat3

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:7545930](#)

Vector Backbone Description: Backbone Marker:Identical to pRc/CMV except at its MCS; Backbone Size:5400; Vector Backbone:pcDNA3.0; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Diagnostic restriction digest with XmaI (1.6kb and 6.1kb). * E16K mutation found during QC. This variant is found in other published versions of this protein; should function as described in associated publication.

Plasmid Name: Stat3 pcDNA3

Relevant Mutation: * see comments

Record Creation Time: 20220422T222558+0000

Record Last Update: 20260725T075317+0000

Ratings and Alerts

No rating or validation information has been found for Stat3 pcDNA3.

No alerts have been found for Stat3 pcDNA3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Zhang M, et al. (2025) SMAD2 S-palmitoylation promotes its linker region phosphorylation and TH17 cell differentiation in a mouse model of multiple sclerosis. *Science signaling*, 18(888), eadr2008.

Yoon JH, et al. (2024) Repression of SMAD3 by STAT3 and c-Ski induces conventional dendritic cell differentiation. *Life science alliance*, 7(9).

Ramos Solis N, et al. (2024) HUNK as a key regulator of tumor-associated macrophages in triple negative breast cancer. *Oncoimmunology*, 13(1), 2364382.

Ma S, et al. (2023) YTHDF2 orchestrates tumor-associated macrophage reprogramming and controls antitumor immunity through CD8+ T cells. *Nature immunology*, 24(2), 255.

Ren J, et al. (2021) Serum- and Glucocorticoid-Inducible Kinase 1 Promotes Alternative Macrophage Polarization and Restrains Inflammation through FoxO1 and STAT3 Signaling. *Journal of immunology* (Baltimore, Md. : 1950), 207(1), 268.

Müller A, et al. (2020) The CDK4/6-EZH2 pathway is a potential therapeutic target for psoriasis. *The Journal of clinical investigation*, 130(11), 5765.

Grondona P, et al. (2020) Threonine Phosphorylation of I β B γ Mediates Inhibition of Selective Proinflammatory Target Genes. *The Journal of investigative dermatology*, 140(9), 1805.

Maji S, et al. (2019) STAT3- and GSK3 β -mediated Mcl-1 regulation modulates TPF resistance in oral squamous cell carcinoma. *Carcinogenesis*, 40(1), 173.

Coker-Gurkan A, et al. (2019) Atiprimod induce apoptosis in pituitary adenoma: Endoplasmic reticulum stress and autophagy pathways. *Journal of cellular biochemistry*, 120(12), 19749.

Yang L, et al. (2017) Porcine Reproductive and Respiratory Syndrome Virus Antagonizes JAK/STAT3 Signaling via nsp5, Which Induces STAT3 Degradation. *Journal of virology*, 91(3).

Hallenborg P, et al. (2016) MDM2 facilitates adipocyte differentiation through CRTC-mediated activation of STAT3. *Cell death & disease*, 7(6), e2289.

Labeur M, et al. (2008) Interferon-gamma inhibits cellular proliferation and ACTH production in corticotroph tumor cells through a novel janus kinases-signal transducer and activator of transcription 1/nuclear factor-kappa B inhibitory signaling pathway. *The Journal of endocrinology*, 199(2), 177.