

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

pCMV5B-Flag-Smad3

RRID:Addgene_11742

Type: Plasmid

Proper Citation

RRID:Addgene_11742

Plasmid Information

URL: <http://www.addgene.org/11742>

Proper Citation: RRID:Addgene_11742

Insert Name: SMAD3

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:9702197](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:pCMV5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCMV5B-Flag-Smad3

Record Creation Time: 20220422T221615+0000

Record Last Update: 20260815T080253+0000

Ratings and Alerts

No rating or validation information has been found for pCMV5B-Flag-Smad3.

No alerts have been found for pCMV5B-Flag-Smad3.

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 [RRID](#) .

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.

Lee SY, et al. (2025) A Novel Mechanism of the p53 Isoform γ 40p53 γ in Regulating Collagen III Expression in TGF β 1-Induced LX-2 Human Hepatic Stellate Cells. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(8), e70541.

Ballout F, et al. (2024) Targeting SMAD3 Improves Response to Oxaliplatin in Esophageal Adenocarcinoma Models by Impeding DNA Repair. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 30(10), 2193.

Jeon HY, et al. (2023) SMAD3 promotes expression and activity of the androgen receptor in prostate cancer. *Nucleic acids research*, 51(6), 2655.

Xie X, et al. (2020) Smad3 Regulates Neuropilin 2 Transcription by Binding to its 5' Untranslated Region. *Journal of the American Heart Association*, 9(8), e015487.

Cibi DM, et al. (2019) Neural crest-specific deletion of Rbfox2 in mice leads to craniofacial abnormalities including cleft palate. *eLife*, 8.

Kim GY, et al. (2017) Binding of coronin 1B to T β RI negatively regulates the TGF β 1 signaling pathway. *Biochemical and biophysical research communications*, 490(2), 574.

Wang Y, et al. (2017) Osteocalcin expressing cells from tendon sheaths in mice contribute to tendon repair by activating Hedgehog signaling. *eLife*, 6.

Manresa MC, et al. (2016) Hydroxylase inhibition regulates inflammation-induced intestinal fibrosis through the suppression of ERK-mediated TGF- β 1 signaling. [corrected]. *American journal of physiology. Gastrointestinal and liver physiology*, 311(6), G1076.

Tian Y, et al. (2016) TGF β regulates Galectin-3 expression through canonical Smad3 signaling pathway in nucleus pulposus cells: implications in intervertebral disc degeneration. *Matrix biology : journal of the International Society for Matrix Biology*, 50, 39.

Kong Y, et al. (2016) RUNX3-mediated up-regulation of miR-29b suppresses the proliferation and migration of gastric cancer cells by targeting KDM2A. *Cancer letters*, 381(1), 138.

Bollinger LM, et al. (2014) SMAD3 augments FoxO3-induced MuRF-1 promoter activity in a DNA-binding-dependent manner. *American journal of physiology. Cell physiology*, 307(3), C278.

Kim S, et al. (2013) ERK5 inhibition ameliorates pulmonary fibrosis via regulating Smad3 acetylation. *The American journal of pathology*, 183(6), 1758.

Ferguson BW, et al. (2013) The cancer gene WWOX behaves as an inhibitor of SMAD3 transcriptional activity via direct binding. BMC cancer, 13, 593.

McFarlane C, et al. (2011) Human myostatin negatively regulates human myoblast growth and differentiation. American journal of physiology. Cell physiology, 301(1), C195.

Tran CM, et al. (2010) Regulation of CCN2/connective tissue growth factor expression in the nucleus pulposus of the intervertebral disc: role of Smad and activator protein 1 signaling. Arthritis and rheumatism, 62(7), 1983.