

Resource Summary Report

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

SBE4-Luc

RRID:Addgene_16495

Type: Plasmid

Proper Citation

RRID:Addgene_16495

Plasmid Information

URL: <http://www.addgene.org/16495>

Proper Citation: RRID:Addgene_16495

Insert Name: Smad binding element

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:9660945](#)

Vector Backbone Description: Backbone Marker:Vogelstein Lab; Backbone Size:4867; Vector Backbone:pBV-Luc; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: Four copies of the Smad binding site (GTCTAGAC) are cloned into pBV-Luc.

Plasmid Name: SBE4-Luc

Record Creation Time: 20220422T221931+0000

Record Last Update: 20260815T080925+0000

Ratings and Alerts

No rating or validation information has been found for SBE4-Luc.

No alerts have been found for SBE4-Luc.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 82 mentions in open access literature.

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

Rothstein M, et al. (2025) TGF- β signaling controls neural crest developmental plasticity via SMAD2/3. *Developmental cell*, 60(12), 1686.

Wang BZ, et al. (2025) Cardiac fibroblast BAG3 regulates TGFBR2 signaling and fibrosis in dilated cardiomyopathy. *The Journal of clinical investigation*, 135(1).

Yadav N, et al. (2025) Synergistic activity of simvastatin and irinotecan chemotherapy against glioblastoma converges on TGF- β signaling. *Journal of neuro-oncology*, 174(3), 621.

Kobayashi N, et al. (2025) Activin B improves glucose metabolism via induction of Fgf21 and hepatic glucagon resistance. *Nature communications*, 16(1), 3678.

Choudhary A, et al. (2025) HIV-1 Vpr orchestrates ciTRAN upregulation through TGF- β induction. *PLoS pathogens*, 21(7), e1013332.

Kalyoncu M, et al. (2025) Escape from TGF- β -induced senescence promotes aggressive hallmarks in epithelial hepatocellular carcinoma cells. *Molecular oncology*, 19(9), 2594.

Feng Y, et al. (2024) BRD9-SMAD2/3 Orchestrates Stemness and Tumorigenesis in Pancreatic Ductal Adenocarcinoma. *Gastroenterology*, 166(1), 139.

Baird L, et al. (2023) Paternal Expressed Gene 10 (PEG10) is decreased in early-onset preeclampsia. *Reproductive biology and endocrinology : RB&E*, 21(1), 65.

VanSlyke JK, et al. (2023) ErbBs in Lens Cell Fibrosis and Secondary Cataract. *Investigative ophthalmology & visual science*, 64(10), 6.

Yang Z, et al. (2023) Direct and biologically significant interactions of human herpesvirus 8 interferon regulatory factor 1 with STAT3 and Janus kinase TYK2. *PLoS pathogens*, 19(11), e1011806.

Maeta K, et al. (2023) A novel splice variant of the human MSTN gene encodes a myostatin-specific myostatin inhibitor. *Journal of cachexia, sarcopenia and muscle*, 14(5), 2289.

Dogra S, et al. (2023) Targeting doublecortin-like kinase 1 reveals a novel strategy to circumvent chemoresistance and metastasis in ovarian cancer. *Cancer letters*, 578, 216437.

Maeta K, et al. (2022) An Antisense Oligonucleotide against a Splicing Enhancer Sequence within Exon 1 of the MSTN Gene Inhibits Pre-mRNA Maturation to Act as a Novel Myostatin Inhibitor. *International journal of molecular sciences*, 23(9).

Flegel J, et al. (2022) The Highly Potent AhR Agonist Picoberin Modulates Hh-Dependent Osteoblast Differentiation. *Journal of medicinal chemistry*, 65(24), 16268.

Mishra T, et al. (2022) Improved loss-of-function CRISPR-Cas9 genome editing in human cells concomitant with inhibition of TGF- β signaling. *Molecular therapy. Nucleic acids*, 28, 202.

Shan Y, et al. (2022) miR-218-5p Induces Interleukin-1 β and Endovascular Trophoblast Differentiation by Targeting the Transforming Growth Factor β -SMAD2 Pathway. *Frontiers in endocrinology*, 13, 842587.

Mohammadi Ghahhari N, et al. (2022) Cooperative interaction between ER α and the EMT-inducer ZEB1 reprograms breast cancer cells for bone metastasis. *Nature communications*, 13(1), 2104.

Wen J, et al. (2022) Pharmacological Inhibition of S100A4 Attenuates Fibroblast Activation and Renal Fibrosis. *Cells*, 11(17).

Cheng J, et al. (2021) Small-molecule probe reveals a kinase cascade that links stress signaling to TCF/LEF and Wnt responsiveness. *Cell chemical biology*, 28(5), 625.

Lanauze CB, et al. (2021) Colorectal Cancer-Associated Smad4 R361 Hotspot Mutations Boost Wnt/ β -Catenin Signaling through Enhanced Smad4-LEF1 Binding. *Molecular cancer research : MCR*, 19(5), 823.