

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pLKO.1 puro shRNA beta-catenin

RRID:Addgene_18803

Type: Plasmid

Proper Citation

RRID:Addgene_18803

Plasmid Information

URL: <http://www.addgene.org/18803>

Proper Citation: RRID:Addgene_18803

Insert Name: b-catenin shRNA

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18483246](#)

Vector Backbone Description: Backbone Marker:Available at Addgene (#8453); Backbone Size:7000; Vector Backbone:pLKO.1 puro; Vector Types:Mammalian Expression, Lentiviral, RNAi; Bacterial Resistance:Ampicillin

Comments: siRNA directed against beta-catenin: 5'-GCTTGGGAATGAGACTGCTGAT-3'. Sequence from the website of the RNAi consortium at the Broad institute.

Plasmid Name: pLKO.1 puro shRNA beta-catenin

Record Creation Time: 20220422T222042+0000

Record Last Update: 20260725T074403+0000

Ratings and Alerts

No rating or validation information has been found for pLKO.1 puro shRNA beta-catenin.

No alerts have been found for pLKO.1 puro shRNA beta-catenin.

Data and Source Information

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Wang W, et al. (2022) miR-637 Prevents Glioblastoma Progression by Interrupting ZEB2/WNT/ β -catenin Cascades. Cellular and molecular neurobiology, 42(7), 2321.

Wan C, et al. (2021) Genome-scale CRISPR-Cas9 screen of Wnt/ β -catenin signaling identifies therapeutic targets for colorectal cancer. Science advances, 7(21).

Liu J, et al. (2020) Essentiality of CTNNB1 in Malignant Transformation of Human Embryonic Stem Cells under Long-Term Suboptimal Conditions. Stem cells international, 2020, 5823676.

Khare V, et al. (2019) RNA helicase p68 deploys β -catenin in regulating RelA/p65 gene expression: implications in colon cancer. Journal of experimental & clinical cancer research : CR, 38(1), 330.

Kim JY, et al. (2018) Wnt signal activation induces midbrain specification through direct binding of the beta-catenin/TCF4 complex to the EN1 promoter in human pluripotent stem cells. Experimental & molecular medicine, 50(4), 1.

Sulaiman A, et al. (2018) Dual inhibition of Wnt and Yes-associated protein signaling retards the growth of triple-negative breast cancer in both mesenchymal and epithelial states. Molecular oncology, 12(4), 423.

You C, et al. (2018) β -catenin decreases acquired TRAIL resistance in non-small-cell lung cancer cells by regulating the redistribution of death receptors. International journal of oncology, 53(5), 2258.

Bagati A, et al. (2018) FOXQ1 controls the induced differentiation of melanocytic cells. Cell death and differentiation, 25(6), 1040.

Nagaraj AB, et al. (2018) Using a novel computational drug-repositioning approach (DrugPredict) to rapidly identify potent drug candidates for cancer treatment. Oncogene, 37(3), 403.

Vergara D, et al. (2017) β -Catenin Knockdown Affects Mitochondrial Biogenesis and Lipid Metabolism in Breast Cancer Cells. Frontiers in physiology, 8, 544.

Cho SG, et al. (2017) APC downregulated 1 inhibits breast cancer cell invasion by inhibiting the canonical WNT signaling pathway. Oncology letters, 14(4), 4845.

Kidan N, et al. (2017) Ectopic Expression of Snail and Twist in Ph⁺ Leukemia Cells Upregulates CD44 Expression and Alters Their Differentiation Potential. Journal of Cancer, 8(19), 3952.

Bagati A, et al. (2017) Melanoma Suppressor Functions of the Carcinoma Oncogene FOXQ1. *Cell reports*, 20(12), 2820.

Santos JC, et al. (2016) SOX9 Elevation Acts with Canonical WNT Signaling to Drive Gastric Cancer Progression. *Cancer research*, 76(22), 6735.

Sulaiman A, et al. (2016) Both bulk and cancer stem cell subpopulations in triple-negative breast cancer are susceptible to Wnt, HDAC, and ER α coinhibition. *FEBS letters*, 590(24), 4606.

Ma B, et al. (2015) WNT/ β -catenin signaling inhibits CBP-mediated RelA acetylation and expression of proinflammatory NF- κ B target genes. *Journal of cell science*, 128(14), 2430.

Nagaraj AB, et al. (2015) Critical role of Wnt/ β -catenin signaling in driving epithelial ovarian cancer platinum resistance. *Oncotarget*, 6(27), 23720.

Morgan RG, et al. (2013) β -Catenin is overexpressed in acute myeloid leukemia and promotes the stabilization and nuclear localization of β -catenin. *Leukemia*, 27(2), 336.

Ma B, et al. (2012) A Wnt/ β -catenin negative feedback loop inhibits interleukin-1-induced matrix metalloproteinase expression in human articular chondrocytes. *Arthritis and rheumatism*, 64(8), 2589.

Guturi KK, et al. (2012) Mechanism of β -catenin-mediated transcriptional regulation of epidermal growth factor receptor expression in glycogen synthase kinase 3 β -inactivated prostate cancer cells. *The Journal of biological chemistry*, 287(22), 18287.