

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pLKO-shPKM2_4

RRID:Addgene_42516

Type: Plasmid

Proper Citation

RRID:Addgene_42516

Plasmid Information

URL: <http://www.addgene.org/42516>

Proper Citation: RRID:Addgene_42516

Insert Name: shRNA-PKM2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22052977](#)

Vector Backbone Description: Backbone Marker:The RNAi consortium; Backbone Size:7032; Vector Backbone:pLKO.1; Vector Types:Lentiviral; Bacterial Resistance:Ampicillin

Comments: The depositing scientist notes: NM_011099.3 is PKM2 and NM_001253883.1 is PKM1, based on sequence homology of the respective translated products to the human PKM isoforms. The isoform annotations in the corresponding GeneBank entries are incorrect.

Plasmid Name: pLKO-shPKM2_4

Record Creation Time: 20220422T222219+0000

Record Last Update: 20260815T081454+0000

Ratings and Alerts

No rating or validation information has been found for pLKO-shPKM2_4.

No alerts have been found for pLKO-shPKM2_4.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Li X, et al. (2025) Development of a breast cancer invasion score to predict tumor aggressiveness and prognosis via PI3K/AKT/mTOR pathway analysis. Cell death discovery, 11(1), 157.

Jia Y, et al. (2021) Crosstalk between hypoxia-sensing ULK1/2 and YAP-driven glycolysis fuels pancreatic ductal adenocarcinoma development. International journal of biological sciences, 17(11), 2772.

Taylor SR, et al. (2021) Dietary fructose improves intestinal cell survival and nutrient absorption. Nature, 597(7875), 263.

Morita M, et al. (2018) PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. Cancer cell, 33(3), 355.

Zhao J, et al. (2017) Glycolytic reprogramming through PCK2 regulates tumor initiation of prostate cancer cells. Oncotarget, 8(48), 83602.