

Resource Summary Report

Generated by [dkNET](#) on Aug 3, 2026

pcDNA3-HA-PHLPP2

RRID:Addgene_22403

Type: Plasmid

Proper Citation

RRID:Addgene_22403

Plasmid Information

URL: <http://www.addgene.org/22403>

Proper Citation: RRID:Addgene_22403

Insert Name: PHLPP2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17386267](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5446;
Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial
Resistance:Ampicillin

Plasmid Name: pcDNA3-HA-PHLPP2

Record Creation Time: 20220422T222059+0000

Record Last Update: 20260801T081014+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-HA-PHLPP2.

No alerts have been found for pcDNA3-HA-PHLPP2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Balamurugan K, et al. (2022) PHLPP1 promotes neutral lipid accumulation through AMPK/ChREBP-dependent lipid uptake and fatty acid synthesis pathways. *iScience*, 25(2), 103766.

Sharma M, et al. (2022) PHLPP isoforms differentially regulate Akt isoforms and AS160 affecting neuronal insulin signaling and insulin resistance via Scribble. *Cell communication and signaling : CCS*, 20(1), 179.

Lupse B, et al. (2021) Inhibition of PHLPP1/2 phosphatases rescues pancreatic β -cells in diabetes. *Cell reports*, 36(5), 109490.

Liu J, et al. (2018) m6A mRNA methylation regulates AKT activity to promote the proliferation and tumorigenicity of endometrial cancer. *Nature cell biology*, 20(9), 1074.

Behera S, et al. (2018) ERK1/2 activated PHLPP1 induces skeletal muscle ER stress through the inhibition of a novel substrate AMPK. *Biochimica et biophysica acta. Molecular basis of disease*, 1864(5 Pt A), 1702.

Madigan JP, et al. (2018) The tuberous sclerosis complex subunit TBC1D7 is stabilized by Akt phosphorylation-mediated 14-3-3 binding. *The Journal of biological chemistry*, 293(42), 16142.

Li CF, et al. (2017) Transmembrane and Coiled-Coil Domain 1 Impairs the AKT Signaling Pathway in Urinary Bladder Urothelial Carcinoma: A Characterization of a Tumor Suppressor. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 23(24), 7650.

Kim K, et al. (2016) mTORC1-independent Raptor prevents hepatic steatosis by stabilizing PHLPP2. *Nature communications*, 7, 10255.

Fabian AK, et al. (2013) InterAKTions with FKBP--mutational and pharmacological exploration. *PloS one*, 8(2), e57508.

Crotty TM, et al. (2013) Diacylglycerol kinase γ modulates Akt phosphorylation through pleckstrin homology domain leucine-rich repeat protein phosphatase 2 (PHLPP2). *The Journal of biological chemistry*, 288(3), 1439.