

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

pcDNA3-TORCAR

RRID:Addgene_64927

Type: Plasmid

Proper Citation

RRID:Addgene_64927

Plasmid Information

URL: <http://www.addgene.org/64927>

Proper Citation: RRID:Addgene_64927

Insert Name: TORCAR

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25772363](#)

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

Plasmid Name: pcDNA3-TORCAR

Record Creation Time: 20220422T222410+0000

Record Last Update: 20260902T045923+0000

Ratings and Alerts

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

No alerts have been found for pcDNA3-TORCAR.

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 [NIF](#) .

Zhang Q, et al. (2025) ATF3-SLC7A7 Axis Regulates mTORC1 Signaling to Suppress Lipogenesis and Tumorigenesis in Hepatocellular Carcinoma. *Cells*, 14(4).

Chen Z, et al. (2023) mcPGK1-dependent mitochondrial import of PGK1 promotes metabolic reprogramming and self-renewal of liver TICs. *Nature communications*, 14(1), 1121.

Zhong Y, et al. (2022) Rheb regulates nuclear mTORC1 activity independent of farnesylation. *Cell chemical biology*, 29(6), 1037.

Fedder-Semmes KN, et al. (2021) The Akt-mTOR Pathway Drives Myelin Sheath Growth by Regulating Cap-Dependent Translation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(41), 8532.

Yang JM, et al. (2021) Deciphering cell signaling networks with massively multiplexed biosensor barcoding. *Cell*, 184(25), 6193.

Rabanal-Ruiz Y, et al. (2021) mTORC1 activity is supported by spatial association with focal adhesions. *The Journal of cell biology*, 220(5).

Fang C, et al. (2021) eIF4E-eIF4G complex inhibition synergistically enhances the effect of sorafenib in hepatocellular carcinoma. *Anti-cancer drugs*, 32(8), 822.

Gopallawa I, et al. (2021) Small-molecule Akt-activation in airway cells induces NO production and reduces IL-8 transcription through Nrf-2. *Respiratory research*, 22(1), 267.

Yamanaka R, et al. (2018) GABA-Induced Intracellular Mg²⁺ Mobilization Integrates and Coordinates Cellular Information Processing for the Maturation of Neural Networks. *Current biology : CB*, 28(24), 3984.

Zhou X, et al. (2016) Tracking the Activity of mTORC1 in Living Cells Using Genetically Encoded FRET-based Biosensor TORCAR. *Current protocols in chemical biology*, 8(4), 225.