

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

PIK3CA - Exon20 H1047R

RRID:Addgene_16639

Type: Plasmid

Proper Citation

RRID:Addgene_16639

Plasmid Information

URL: <http://www.addgene.org/16639>

Proper Citation: RRID:Addgene_16639

Insert Name: PIK3CA H1047R

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:15016963](#)

Vector Backbone Description: Backbone Marker:Stratagene; Backbone Size:4300; Vector Backbone:pCMV2-Tag 2A; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: This plasmid has 5 additional mutations in PIK3CA compared to NP_006209.2: N114D, L177S, T322A, A400V, L404P. These mutations do not alter the function of the encoded proteins.

Plasmid Name: PIK3CA - Exon20 H1047R

Relevant Mutation: H1047R

Record Creation Time: 20220422T221936+0000

Record Last Update: 20260905T075127+0000

Ratings and Alerts

No rating or validation information has been found for PIK3CA - Exon20 H1047R.

No alerts have been found for PIK3CA - Exon20 H1047R.

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 [NIF](#) .

Huang YS, et al. (2022) Reciprocal regulation of Daxx and PIK3CA promotes colorectal cancer cell growth. Cellular and molecular life sciences : CMLS, 79(7), 367.

Citron F, et al. (2020) Downregulation of miR-223 Expression Is an Early Event during Mammary Transformation and Confers Resistance to CDK4/6 Inhibitors in Luminal Breast Cancer. Cancer research, 80(5), 1064.

Trautmann M, et al. (2019) Phosphatidylinositol-3-kinase (PI3K)/Akt Signaling is Functionally Essential in Myxoid Liposarcoma. Molecular cancer therapeutics, 18(4), 834.

Venot Q, et al. (2018) Targeted therapy in patients with PIK3CA-related overgrowth syndrome. Nature, 558(7711), 540.

Kidacki M, et al. (2017) p120-Catenin Downregulation and PIK3CA Mutations Cooperate to Induce Invasion through MMP1 in HNSCC. Molecular cancer research : MCR, 15(10), 1398.