

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

JP1520 PIK3CA E545K HA

RRID:Addgene_14571

Type: Plasmid

Proper Citation

RRID:Addgene_14571

Plasmid Information

URL: <http://www.addgene.org/14571>

Proper Citation: RRID:Addgene_14571

Insert Name: PIK3CA E545K

Organism: Bos taurus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16322248](#)

Vector Backbone Description: Backbone Marker:Jeff Engelman; Backbone Size:0; Vector Backbone:JP1520; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: Hemagglutinin (HA)-tagged bovine PIK3CA cDNA was subcloned into the pDNR-Dual vector (Clontech, Mountain View, CA), and site-directed mutagenesis (Quick Change, Stratagene, La Jolla, CA) was used to generate the E545K mutation. The cDNA was shuttled into the JP1520 retroviral vector using the BD Creator System (Clontech).

Plasmid Name: JP1520 PIK3CA E545K HA

Relevant Mutation: E545K

Record Creation Time: 20220422T221821+0000

Record Last Update: 20260905T074912+0000

Ratings and Alerts

No rating or validation information has been found for JP1520 PIK3CA E545K HA.

No alerts have been found for JP1520 PIK3CA E545K HA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Elloul S, et al. (2014) The adherens junction protein afadin is an AKT substrate that regulates breast cancer cell migration. Molecular cancer research : MCR, 12(3), 464.

Paget JA, et al. (2012) Repression of cancer cell senescence by PKC?. Oncogene, 31(31), 3584.