

Resource Summary Report

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MIGR1-cyclin E-AA

RRID:Addgene_47498

Type: Plasmid

Proper Citation

RRID:Addgene_47498

Plasmid Information

URL: <http://www.addgene.org/47498>

Proper Citation: RRID:Addgene_47498

Insert Name: cyclin E1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23873023](#)

Vector Backbone Description: Backbone Size:6521; Vector Backbone:MIGR1; Vector Types:Mammalian Expression, Retroviral, MSCV-IRES-GFP; Bacterial Resistance:Ampicillin

Comments: Human cyclin E1 (CCNE1) cDNA was mutated at N- and C-terminal Cdc4 phosphodegrons (T62A and T380A, see references) to disrupt interaction with Fbw7 ubiquitin ligase. cDNA is inserted into MIGR1 (MSCV-based retroviral vector), permitting transduction of hematopoietic cells. Cloned cDNA contains approximately 100 bp from CCNE1 3' UTR. GFP is co-expressed with cDNA via IRES, permitting enrichment for transduced cells using flow sorting. References: Koepp DM, Schaefer LK, Ye X, Keyomarsi K, Chu C, Harper JW et al (2001). Phosphorylation-dependent ubiquitination of cyclin E by the SCFFbw7 ubiquitin ligase. Science 294: 173-177. Strohmaier H, Spruck CH, Kaiser P, Won KA, Sangfelt O, Reed SI (2001). Human F-box protein hCdc4 targets cyclin E for proteolysis and is mutated in a breast cancer cell line. Nature 413: 316-322.

Plasmid Name: MIGR1-cyclin E-AA

Relevant Mutation: threonines 62 and 380 to alanine (T62A T380A)

Record Creation Time: 20220422T222244+0000

Record Last Update: 20260808T081731+0000

Ratings and Alerts

No rating or validation information has been found for MIGR1-cyclin E-AA.

No alerts have been found for MIGR1-cyclin E-AA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Zhong Z, et al. (2024) Recurrent mutations in tumor suppressor FBXW7 bypass Wnt/??-catenin addiction in cancer. Science advances, 10(14), eadk1031.