

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

Flag Depdc5 pRK5

RRID:Addgene_46340

Type: Plasmid

Proper Citation

RRID:Addgene_46340

Plasmid Information

URL: <http://www.addgene.org/46340>

Proper Citation: RRID:Addgene_46340

Insert Name: Depdc5

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23723238](#)

Vector Backbone Description: Vector Backbone:pRK5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: Flag Depdc5 pRK5

Relevant Mutation: Differs from Depdc5 isoform 1 by 10 amino acids starting at position 724: ILTLSAPPVV

Record Creation Time: 20220422T222239+0000

Record Last Update: 20260815T081531+0000

Ratings and Alerts

No rating or validation information has been found for Flag Depdc5 pRK5.

No alerts have been found for Flag Depdc5 pRK5.

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 [RRID](#) .

Hsieh CW, et al. (2026) Graded activation of the CLEAR network through mTORC1 suppression on cargo-harboring lysosomes. Cell reports, 45(4), 117228.

Dawson RE, et al. (2020) Functional screening of GATOR1 complex variants reveals a role for mTORC1 deregulation in FCD and focal epilepsy. Neurobiology of disease, 134, 104640.

Zhang J, et al. (2020) Aster-C coordinates with COP I vesicles to regulate lysosomal trafficking and activation of mTORC1. EMBO reports, 21(9), e49898.

Shen K, et al. (2017) Intersubunit Crosstalk in the Rag GTPase Heterodimer Enables mTORC1 to Respond Rapidly to Amino Acid Availability. Molecular cell, 68(3), 552.

van Kranenburg M, et al. (2015) Preliminary functional assessment and classification of DEPDC5 variants associated with focal epilepsy. Human mutation, 36(2), 200.