

Resource Summary Report

Generated by [NIF](#) on Jul 31, 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: 20260725T074733+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 4 mentions in open access literature.

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

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.