

Product datasheet for KN211462BN

DEPDC5 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo DEPDC5 Symbol: 9681 Locus ID:

KN211462G1, DEPDC5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN211462G2, DEPDC5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211462BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

NM 001007188, NM 001136029, NM 001242896, NM 001242897, NM 014662, NR 110988, RefSeq:

> NR 146296, NM 001364318, NM 001364320, NM 001369902, NM 001369903, NR 157126, NR 157128, NM 001363852, NM 001363854, NM 001364319, NM 001369901, NR 157125

UniProt ID: 075140

DEP.5; FFEVF Synonyms:

Summary: This gene encodes a member of the IML1 family of proteins involved in G-protein signaling

pathways. The mechanistic target of rapamycin complex 1 (mTORC1) pathway regulates cell

growth by sensing the availability of nutrients. The protein encoded by this gene is a

component of the GATOR1 (GAP activity toward Rags) complex which inhibits the amino acid-

sensing branch of the mTORC1 pathway. Mutations in this gene are associated with autosomal dominant familial focal epilepsy with variable foci. A single nucleotide polymorphism in an intron of this gene has been associated with an increased risk of hepatocellular carcinoma in individuals with chronic hepatitis C virus infection. Alternative

splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]



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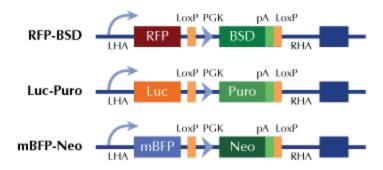
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Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter