

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
Symbol:	DEPDC5
Locus ID:	9681
Components:	KN211462G1 , DEPDC5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) 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
RefSeq:	NM_001007188 , NM_001136029 , NM_001242896 , NM_001242897 , NM_014662 , NR_110988 , 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:	O75140
Synonyms:	DEP.5; FFEVF
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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Product images:

