

Product datasheet for KN305017BN

Eef2k Mouse 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: Eef2k Locus ID: 13631

KN305017G1, Eef2k gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN305017G2, Eef2k gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN305017BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

> designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: NM 001251826, NM 001267710, NM 001267711, NM 007908

UniProt ID: 008796

Synonyms: C86191; eEF-2K

Summary: Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain

> elongation. Upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind

ribosomes and thus inactive. In turn, the rate of protein synthesis is reduced.

[UniProtKB/Swiss-Prot Function]



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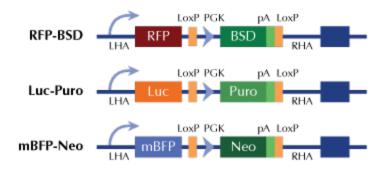
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Product images:

Donor Vector Edited Chromosome



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