

Product datasheet for KN301413LP

OriGene Technologies, Inc.

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Apobec3 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: Apobec3
Locus ID: 80287

Components: KN301413G1, Apobec3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN301413G2, Apobec3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN301413LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 001160415</u>, <u>NM 001347041</u>, <u>NM 030255</u>

UniProt ID: <u>Q99J72</u>

Synonyms: Apobec; Arp3; BC003314; Cem15; Rfv3

Summary: DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and

retrotransposon mobility via deaminase-dependent and -independent mechanisms. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or

single-or double-stranded RNA. Exhibits antiviral activity against HIV-1, simian

immunodeficiency viruses (SIVs), mouse mammary tumor virus (MMTV) and friend murine

leukemia virus (FrMLV) and may inhibit the mobility of LTR retrotransposons.

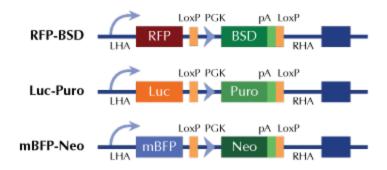
[UniProtKB/Swiss-Prot Function]





Product images:

Donor Vector Edited Chromosome



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