

Product datasheet for KN201639RB

CIRBP Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: CIRBP Symbol: Locus ID: 1153

KN201639G1, CIRBP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN201639G2, CIRBP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201639RBD, donor DNA containing left and right homologous arms and RFP-BSD

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.

NM 001280, NM 001300815, NM 001300829, NR 023312, NR 023313 RefSeq:

UniProt ID: Q14011 Synonyms: CIRP

Summary: Cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress

> response by stabilizing transcripts of genes involved in cell survival. Acts as a translational activator. Seems to play an essential role in cold-induced suppression of cell proliferation. Binds specifically to the 3'-untranslated regions (3' UTRs) of stress-responsive transcripts RPA2 and TXN. Acts as a translational repressor (By similarity). Promotes assembly of stress

granules (SGs), when overexpressed.[UniProtKB/Swiss-Prot Function]



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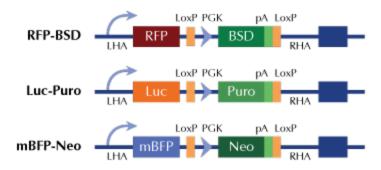
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Product images:

Donor Vector Edited Chromosome



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