

## Product datasheet for **KN201639**

### CIRBP Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** CIRBP  
**Locus ID:** 1153  
**Components:** **KN201639G1**, CIRBP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGACACCAATGAGCAGTCGC  
**KN201639G2**, CIRBP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCAGGTCTTCTCAAAGTA  
**KN201639D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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**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\\_001280](#), [NM\\_001300815](#), [NM\\_001300829](#), [NR\\_023312](#), [NR\\_023313](#)

**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]

Product images:

