

## **Product datasheet for KN202115LP**

#### OriGene Technologies, Inc.

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### **CREB1 Human 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: CREB1 Locus ID: 1385

**Components: KN202115G1**, CREB1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202115G2, CREB1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202115LPD, 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 004379, NM 134442, NM 001320793, NR 135473</u>

UniProt ID: P16220
Synonyms: CREB

**Summary:** This gene encodes a transcription factor that is a member of the leucine zipper family of DNA

binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms.

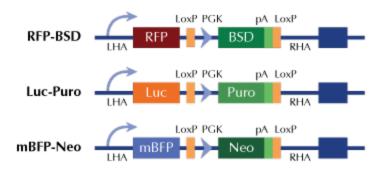
[provided by RefSeq, Mar 2016]





# **Product images:**

### Donor Vector Edited Chromosome



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