

# **Product datasheet for KN210171RB**

#### OriGene Technologies, Inc.

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## **Calcitonin receptor (CALCR) 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: RFP-BSD

Symbol: Calcitonin receptor

Locus ID: 799

**Components: KN210171G1**, Calcitonin receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN210171G2**, Calcitonin receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN210171RBD**, 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.

**RefSeq:** <u>NM 001164737</u>, <u>NM 001164738</u>, <u>NM 001742</u>

UniProt ID: P30988

Synonyms: CRT; CT-R; CTR1

**Summary:** This gene encodes a high affinity receptor for the peptide hormone calcitonin and belongs to

a subfamily of seven transmembrane-spanning G protein-coupled receptors. The encoded protein is involved in maintaining calcium homeostasis and in regulating osteoclast-mediated bone resorption. Polymorphisms in this gene have been associated with variations in bone mineral density and onset of osteoporosis. Alternate splicing results in multiple transcript

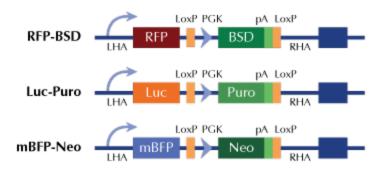
variants. [provided by RefSeq, Sep 2009]





# **Product images:**

### Donor Vector Edited Chromosome



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