

Product datasheet for **KN210171**

Calcitonin receptor (CALCR) 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:	Calcitonin receptor
Locus ID:	799
Components:	<p>KN210171G1, Calcitonin receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGGACAACCGAATCTATAC</p> <p>KN210171G2, Calcitonin receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TAAGAGGTTCAAGTTACTGGT</p> <p>KN210171D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_001164737](#), [NM_001164738](#), [NM_001742](#)

UniProt ID:

[P30988](#)

Synonyms:

CRT; CT-R; CTR; 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:

