

Product datasheet for KN211229LP

OriGene Technologies, Inc.

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Calcium Sensing Receptor (CASR) 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: Calcium Sensing Receptor

Locus ID: 846

Components: KN211229G1, Calcium Sensing Receptor gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN211229G2, Calcium Sensing Receptor gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN211229LPD, 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: NM 000388, NM 001178065

UniProt ID: P41180

Synonyms: CAR; EIG8; FHH; FIH; GPRC2A; HHC; HHC1; HYPOC1; NSHPT; PCAR1

Summary: The protein encoded by this gene is a plasma membrane G protein-coupled receptor that

senses small changes in circulating calcium concentration. The encoded protein couples this information to intracellular signaling pathways that modify parathyroid hormone secretion or renal cation handling, and thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene are a cause of familial hypocalciuric hypercalcemia, neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia. [provided by

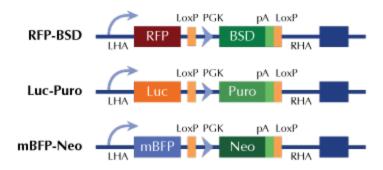
RefSeq, Aug 2017]





Product images:

Donor Vector Edited Chromosome



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