

## **Product datasheet for KN211796RB**

#### OriGene Technologies, Inc.

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### **VLDL Receptor (VLDLR) 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: VLDL Receptor

**Locus ID:** 7436

**Components: KN211796G1**, VLDL Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN211796G2**, VLDL Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN211796RBD**, 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: NM 001018056, NM 003383, NM 001322225, NM 001322226

**UniProt ID:** <u>P98155</u>

Synonyms: CAMRQ1; CARMQ1; CHRMQ1; VLDLRCH

**Summary:** The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins

involved in receptor-mediated endocytosis of specific ligands. This gene encodes a

lipoprotein receptor that is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypoplasia. Alternative splicing generates multiple transcript

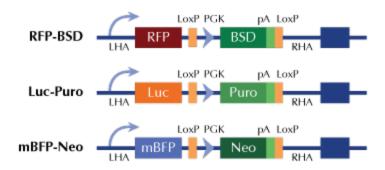
variants encoding distinct isoforms for this gene. [provided by RefSeq, Aug 2009]





# **Product images:**

#### Donor Vector Edited Chromosome



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