

## **Product datasheet for KN201010BN**

#### OriGene Technologies, Inc.

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### Mucolipin 1 (MCOLN1) Human Gene Knockout Kit (CRISPR)

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo Symbol: Mucolipin 1

**Locus ID:** 57192

**Components: KN201010G1**, Mucolipin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN201010G2**, Mucolipin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN201010BND**, donor DNA containing left and right homologous arms and mBFP-Neo

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 020533
UniProt ID: Q9GZU1

Synonyms: MG-2; ML4; MLIV; MST080; MSTP080; TRP-ML1; TRPM-L1; TRPML1

**Summary:** This gene encodes a member of the transient receptor potential (TRP) cation channel gene

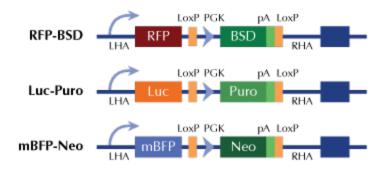
family. The transmembrane protein localizes to intracellular vesicular membranes including lysosomes, and functions in the late endocytic pathway and in the regulation of lysosomal exocytosis. The channel is permeable to Ca(2+), Fe(2+), Na(+), K(+), and H(+), and is modulated by changes in Ca(2+) concentration. Mutations in this gene result in mucolipidosis type IV.

[provided by RefSeq, Oct 2009]



# **Product images:**

### Donor Vector Edited Chromosome



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