

## **Product datasheet for KN205213BN**

#### OriGene Technologies, Inc.

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## Monocarboxylic acid transporter 1 (SLC16A1) 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: Monocarboxylic acid transporter 1

**Locus ID:** 6566

Components: KN205213G1, Monocarboxylic acid transporter 1 gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN205213G2, Monocarboxylic acid transporter 1 gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN205213BND, 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 001166496, NM 003051

UniProt ID: P53985

Synonyms: HHF7; MCT; MCT1D

**Summary:** The protein encoded by this gene is a proton-linked monocarboxylate transporter that

catalyzes the movement of many monocarboxylates, such as lactate and pyruvate, across the plasma membrane. Mutations in this gene are associated with erythrocyte lactate transporter defect. Alternatively spliced transcript variants have been found for this gene.[provided by

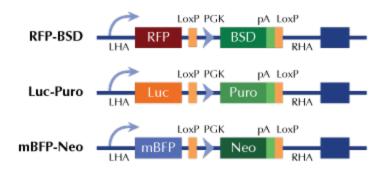
RefSeq, Oct 2009]





# **Product images:**

### Donor Vector Edited Chromosome



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