

## **Product datasheet for KN204453RB**

#### OriGene Technologies, Inc.

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### HNF1 beta (HNF1B) 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:** HNF1 beta

**Locus ID:** 6928

**Components: KN204453G1**, HNF1 beta gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN204453G2**, HNF1 beta gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN204453RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 000458, NM 001165923, NM 001304286, NM 006481</u>

UniProt ID: P35680

Synonyms: FJHN; HNF-1-beta; HNF-1B; HNF1beta; HNF2; HPC11; LF-B3; LFB3; MODY5; TCF-2; TCF2;

VHNF1

**Summary:** This gene encodes a member of the homeodomain-containing superfamily of transcription

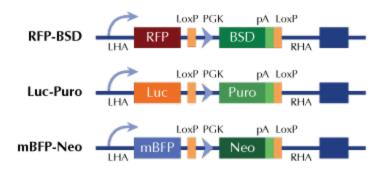
factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and

expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]



# **Product images:**

### Donor Vector Edited Chromosome



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