

## **Product datasheet for KN204767BN**

## OriGene Technologies, Inc.

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### TTDN1 (MPLKIP) 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: TTDN1 Locus ID: 136647

**Components: KN204767G1**, TTDN1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN204767G2**, TTDN1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN204767BND, 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 138701

 UniProt ID:
 Q8TAP9

Synonyms: ABHS; C7orf11; ORF20; TTD4

**Summary:** The protein encoded by this gene localizes to the centrosome during mitosis and to the

midbody during cytokinesis. The protein is phosphorylated by cyclin-dependent kinase 1 during mitosis and subsequently interacts with polo-like kinase 1. The protein is thought to

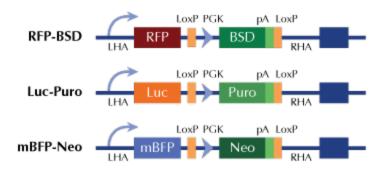
function in regulating mitosis and cytokinesis. Mutations in this gene result in nonphotosensitive trichothiodystrophy. [provided by RefSeq, Nov 2009]





# **Product images:**

#### Donor Vector Edited Chromosome



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