

# **Product datasheet for KN224744LP**

### OriGene Technologies, Inc.

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## TIMM50 Human Gene Knockout Kit (CRISPR)

#### **Product data:**

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

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: TIMM50 Locus ID: 92609

**Components:** KN224744G1, TIMM50 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN224744G2, TIMM50 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN224744LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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:** <u>NM 001001563</u>, <u>NM 001329559</u>

UniProt ID: Q3ZCQ8

Synonyms: TIM50; TIM50L

**Summary:** This gene encodes a subunit of the TIM23 inner mitochondrial membrane translocase

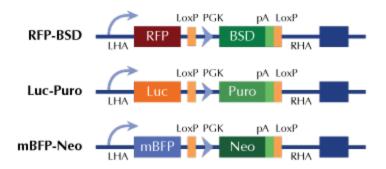
complex. The encoded protein functions as the receptor subunit that recognizes the mitochondrial targeting signal, or presequence, on protein cargo that is destined for the mitochondrial inner membrane and matrix. This protein may also play a role in maintaining the membrane permeability barrier, and knockdown of this gene in human cells results in the

release of cytochrome c and apoptosis. [provided by RefSeq, Jul 2016]



# **Product images:**

### Donor Vector Edited Chromosome



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