

## Product datasheet for KN310033RB

# Mfn1 Mouse Gene Knockout Kit (CRISPR)

**Product data:** 

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

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

**Donor DNA:** Symbol: Mfn1

Locus ID: 67414

**KN310033G1**, Mfn1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN310033G2**, Mfn1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN310033RBD, donor DNA containing left and right homologous arms and RFP-BSD

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.

NM 024200 RefSeq: UniProt ID: Q811U4

Synonyms: 2310002F04Rik; 6330416C07Rik; D3Ertd265e; HR2; mKIAA4032

Summary: Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion

> (PubMed:12527753, PubMed:23921378, PubMed:24513856, PubMed:15297672). Membrane clustering requires GTPase activity (By similarity). It may involve a major rearrangement of the coiled coil domains (PubMed:15297672). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission

events (PubMed:12527753). Overexpression induces the formation of mitochondrial networks (in vitro). Has low GTPase activity (By similarity).[UniProtKB/Swiss-Prot Function]



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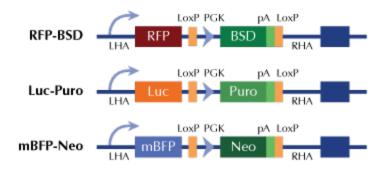
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# **Product images:**

### Donor Vector Edited Chromosome



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