

# Product datasheet for KN202957BN

## RTN4IP1 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: RTN4IP1 Locus ID: 84816

KN202957G1, RTN4IP1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN202957G2, RTN4IP1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN202957BND, 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 001318746, NM 032730

**UniProt ID:** Q8WWV3 Synonyms: NIMP; OPA10

Summary: This gene encodes a mitochondrial protein that interacts with reticulon 4, which is a potent

> inhibitor of regeneration following spinal cord injury. This interaction may be important for reticulon-induced inhibition of neurite growth. Mutations in this gene can cause optic atrophy 10, with or without ataxia, cognitive disability, and seizures. There is a pseudogene for this gene on chromosome 12. Alternative splicing results in multiple transcript variants. [provided

by RefSeq, Jan 2016]



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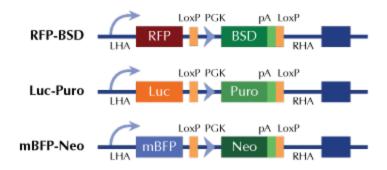
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# **Product images:**

### Donor Vector Edited Chromosome



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