

### Product datasheet for KN214459RB

# **NSUN2 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:** NSUN2 Symbol: 54888 Locus ID:

KN214459G1, NSUN2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN214459G2, NSUN2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN214459RBD, 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.

RefSeq: NM 001193455, NM 017755, NR 037947

**UniProt ID:** Q08|23

Synonyms: MISU; MRT5; SAKI; TRM4

Summary: This gene encodes a methyltransferase that catalyzes the methylation of cytosine to 5-

> methylcytosine (m5C) at position 34 of intron-containing tRNA(Leu)(CAA) precursors. This modification is necessary to stabilize the anticodon-codon pairing and correctly translate the mRNA. Alternatively spliced transcript variants encoding different isoforms have been noted

for this gene.[provided by RefSeq, Mar 2011]



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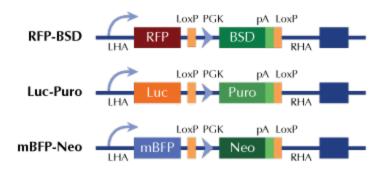
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# **Product images:**

#### Donor Vector Edited Chromosome



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