

Product datasheet for KN214459LP

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NSUN2 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: NSUN2 Locus ID: 54888

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

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

KN214459LPD, 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 001193455</u>, <u>NM 017755</u>, <u>NR 037947</u>

UniProt ID: Q08J23

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

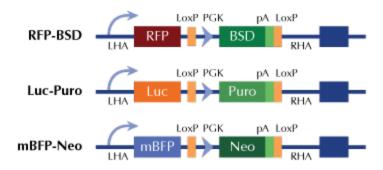
for this gene.[provided by RefSeq, Mar 2011]





Product images:

Donor Vector Edited Chromosome



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