

Product datasheet for KN211386LP

OriGene Technologies, Inc.

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MPRIP 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: MPRIP Locus ID: 23164

Components: KN211386G1, MPRIP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN211386G2, MPRIP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211386LPD, 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 015134, NM 201274, NM 001364716</u>

UniProt ID: Q6WCQ1

Synonyms: M-RIP; MRIP; p116Rip; RHOIP3; RIP3

Summary: Targets myosin phosphatase to the actin cytoskeleton. Required for the regulation of the

actin cytoskeleton by RhoA and ROCK1. Depletion leads to an increased number of stress fibers in smooth muscle cells through stabilization of actin fibers by phosphorylated myosin. Overexpression of MRIP as well as its F-actin-binding region leads to disassembly of stress

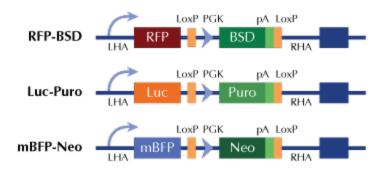
fibers in neuronal cells.[UniProtKB/Swiss-Prot Function]





Product images:

Donor Vector Edited Chromosome



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