

## Product datasheet for **KN211386**

### MPRIP Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** MPRIP  
**Locus ID:** 23164  
**Components:** **KN211386G1**, MPRIP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTAGCAGATGCGACTCGCG  
**KN211386G2**, MPRIP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCGCATCTGCTCAACGACG  
**KN211386D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 TGGGGGATCA TGTAACCTCG CTT

**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\\_015134](#), [NM\\_201274](#), [NM\\_001364716](#)

**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:

