

## Product datasheet for **SC308006**

### MPRIP (NM\_201274) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MPRIP (NM_201274) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPRIP
Synonyms:	M-RIP; MRIP; p116Rip; RHOIP3; RIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308006 representing NM_201274. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGGCAGCCAAGGAGAACCCTGTCAGGAAATTCAGGCCAACATCTCAACAAGAGCAAGTGTCCAG
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AGGTCCAAGTCCGTAATTGAGCAGGTCTCGTGGGATACC TGA
ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_201274

**Insert Size:** 3078 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq:	<u>NM_201274.3</u>
RefSeq Size:	11023 bp
RefSeq ORF:	3078 bp
Locus ID:	23164
UniProt ID:	<u>Q6WCQ1</u>
Cytogenetics:	17p11.2
Protein Families:	Druggable Genome
MW:	116.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>