

## Product datasheet for MC223307

### Mprip (NM\_201245) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mprip (NM_201245) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mprip
Synonyms:	9530046C02; AA536749; AI647711; C76423; mKIAA0864; p116Rip; Rhoip3; RIP3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223307 representing NM_201245 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCGGCGGCCAAGGAAAACCCGTCAGGAAATTTTCAGGCCAACATCTTCAACAAGAGCAAGTGTGAGA  
ACTGCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAACCCATTTATGG  
TGGCTGGCTGCTCCTGGCTCCAGATGGCACTGACTTTGACAACCCAGTGCACCGGTACGGAATGGCAG  
CGACGATTCTTATCCTTTATGAGCATGGCCTCTTGCATATGCCCTGGATGAGATGCCACCACCTCC  
CTCAGGGCACCATCAACATGAACCAAGTGCACAGATGTGGTGGATGGGGAGGCCCGCACAGGGCAGAAGTT  
CTCCCTCTGCATCCTGACACCTGACAAGGAACATTTTATCAGGGCAGAAACCAAGGAGATCATCAGTGGG  
TGGTTAGAGATGCTCATGGTGTATCCTCGAACCAACAAGCAGAACCAGAAGAAGAAACGGAAAGTAGAGC  
CACCTACCCACAGGAGCCTGGGCTGCTAAGATGGCTGTCACTAGCAGTAGTGGCGGCAGCAGTGGTAG  
CAGCAGCAGCATTCCCAGTGTGAGAAAGTTCCCACCACCAATCCCACTCTGGCAGGAAGAAATGAGA  
GCCAAAGACCAACCTGATGGGACCAGCTGAGTCCAGCTCAAAGTCCCAGCCAAAGCCAGCCTCCTGCTG  
CTTGCACCCACGGGAACCAGGACTAGAAAGCAAGAAGATGAAAGCACCATAAGTGGGGACCGTGTGGA  
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CAGTCCAGAGAACTATGGCTTTAGATACATACCAAGGAGGGTGAAGTACCCTCTCAGCCATGACATC  
TGGCATACGACGGAACCTGGATCCAGACCATTATGAAACATGTGCTCCAGCATCTGCCCCAGATGTGACC  
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AAGCTGAGCCAGGAGAGCCAGATCCTGAACAAAAGAAGAGCCGTGCTCGAGAGCGGAGGCGGGAGGGTCCG
CTCCAAGACCTTTGACTGGGCTGAATCCGCCCTATACAACAGGCCCTGGCTCAAGAAAGGGCCAGCGCT
GTTGGGTCTTCTGATTCTGGTGACCCTGGGTGTCTTGAAGCCGAGCCAGGTGAGCTGGAGCGTGAACGAG
CTCGACGTCGAGAAGAACGCCGAAGCGCTTTGGGATGCTGGACACCATTTGATGGACCAGGAATGGAGGA
CACAGCCCTACGTATGGACATCGACCGGAGCCAGGGTGCTGGGAACCCCTGACCTCAAGACACAGAAT
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TGAATAACCGCCTGGCTGCGGAGATCACACGGTTGCGGACACTACTGACTGGAGACGGTGGTGGGGAGTC
CACTGGGTTGCCTCTCACACAGGGCAAGGATGCCTATGAGTTAGAGGTCTTGTTCGGGTCAAAGAGTCA
GAAATCCAGTACCTGAAACAGGAGATCAGCTCCCTCAAGGATGAACTCCAGACAGCCCTGCGGGATAAGA
AGTATGCTAGTGACAAGTACAAAGACATCTACACTGAGCTCAGCATTGCCAAGGCCAAGGCTGACTGCGA
CATCAGCAGGCTGAAGGAGCAGCTGAAAGCAGCCACAGAGGCACTGGGCGAGAAATCTCCTGAAGGCACT
ACTGTGTCAGGATATGACATAATGAAATCTAAAAGCAATCCTGACTTCTGAAGAAAGACAGATCCTGTG
TTACCCGGCAACTCAGAAACATCAGGTCCAAGAGTCTGAAGGAAGGCCTGACGGTGCAGGAGCGCTTGAA
GCTCTTTGAATCCAGGGACTTGAAGAAAGATTAG
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_201245

**Insert Size:**

3114 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).

**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:**

NM\_201245.3, NP\_957697.1

**RefSeq Size:**

8718 bp

**RefSeq ORF:**

3114 bp

Locus ID: 26936

UniProt ID: [P97434](#)

Cytogenetics: 11 B1.3

**Gene 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]  
Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer 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.