

## Product datasheet for SC127823

### MPRIP (NM\_015134) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MPRIP (NM_015134) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPRIP
Synonyms:	M-RIP; MRIP; p116Rip; RHOIP3; RIP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127823 sequence for NM_015134 edited (data generated by NextGen Sequencing)

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ATGTCGCGCAGCCAAGGAGAACCCGTGCAGGAAATTCAGGCCAACATCTTCAACAAGAGC
AAGTGTCAGAAGTCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACG
CAGGCAAAACCCATTTATGGCGTTGGCTGCTCCTGGCTCCAGATGGGACCGACTTTGAC
AACCCAGTGCACCGGTCTCGGAAATGGCAGCGACGGTTCTTCATCCTTTACGAGCACGGC
CTCTTGGCTACGCCCTGGATGAGATGCCACGACCCCTCCTCAGGGCACCATCAACATG
AACCAAGTGCACAGATGTGGTGGATGGGGAGGGCCGACGGGCCAGAAAGTCTCCCTGTGT
ATTCTGACGCTGAGAAGGAGCATTTTCATCCGGGCGGAGACCAAGGAGATCGTCAGTGGG
TGGCTGGAGATGCTCATGGTCTATCCCCGACCAACAAGCAGAATCAGAAGAAGAAACGG
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AGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC
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CCAGCTCAGAGTCCCAGCCAGAGCCAGCCTCCTGCTGCCAGCTCCCTGCGGGAACCTGGG
CTAGAGAGCAAAGAAGAGGAGAGCGCCATGAGTAGCGACCCGATGGACTGTGGCCGCAA
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TCCCAGGTGATTGAAAAGTTTGAGGCCTTGACATTGAGAAGGCAGAGCACATGGAGACC
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AGCAGCTGCTCTTTTGGACCTGCCCGAGGCCTACTGAGAAGCAAGAGGCAGAGCTGGGG  
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 AAGACCTTTGACTGGGCTGAGTTCCTCCATCCAGCAGGCCCTGGCTCAGGAGCGGGT  
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 AGGTTGAAGGAGCAGCTCAAGGCTGCAACGGAAGCACTGGGGGAGAAGTCCCCTGACAGT  
 GCCACGGTGTCCGATATGATATAATGAAATCTAAAAGCAACCCCTGACTTCTTGAAGAAA  
 GACAGATCTGTGTCACCCGGCAACTCAGAAACATCAGGTCCAAGAGTCTGAAGGAAGGC  
 CTGACGGTGAAGAACGGTTGAAGCTCTTTGAATCCAGGGACTTGAAGAAAGACTAG

Clone variation with respect to NM\_015134.3

980 c=>a;1971 c=>g

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015134 unedited  
 CCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG  
 CTCATTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTTGCAGCGGCCGCGAATT  
 CGGCACGAGGCCCTAGCCCGCCGGGAGCGCCAGGCCGCGCAGGCCCTGCGCCGCCCGCC  
 GCCCGCTGCGCCGCCGCGCCACCATGTCGGCAGCCAAGGAGAACCCGTGCAGGAAATTC  
 CAGGCCAACATCTTCAACAAGAGCAAGTGTGAGAACTGCTTCAAGCCCCGCGAGTGCAT  
 CTGCTCAACGACGAGGACCTGACGCAGGCAAAACCCATTTATGGCGGTTGGCTGCTCCTG  
 GCTCCAGATGGGACCGACTTTGACAACCCAGTGCACCGGTCTCGGAAATGGCAGCGACGG  
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 TTCTCAGGGCACCATCAACATGAACCAAGTGCACAGATGTTGGTGGATGGGGAGGGCCGC  
 ACGGGCCAGAAGTTCTCCCTGTGATTCTGACGCTGAGAAGGAGCATTTATCCGGGGC  
 GAGACCAAGGAGATCGTCAGTGGGTGGCTGGAGATGCTCATGGTCTATCCCCGNACCA  
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 GCCCAGGTGGCTGNTACCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
 GAGAAAGTCCCCACACCCAGTCCCACACTCTGGCANGNAGAAATGAGGACCAAGGACCA  
 GCCGATGGCAGCAGCCTGAGTCAGCTCAGAGTCCAGCCAGACCAGCCTNCTGCTGCCAG  
 CTCCTGCGGGGACCTGGGCTAGAGAGCAAGAAGAGGAAACGCCATGAGTACGACCGCTG  
 GACTGTGCCCAAGTCCGGTGGAAAAAC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_015134

<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_015134.2</a> , <a href="#">NP_055949.2</a>
<b>RefSeq Size:</b>	3858 bp
<b>RefSeq ORF:</b>	3117 bp
<b>Locus ID:</b>	23164
<b>UniProt ID:</b>	<a href="#">Q6WCQ1</a>
<b>Cytogenetics:</b>	17p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<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 (1) 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.</p>