

## Product datasheet for RC211386

### MPRIP (NM\_015134) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MPRIP (NM\_015134) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MPRIP  
**Synonyms:** M-RIP; MRIP; p116Rip; RHOIP3; RIP3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC211386 representing NM\_015134  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGTCGGCAGCCAAGGAGAACCCGTCAGGAAATTCAGGCCAACATCTTCAACAAGAGCAAGTGTGAGA  
 ACTGCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAACCCATTTATGG  
 CGGTTGGCTGCTCCTGGCTCCAGATGGGACCGACTTTGACAACCCAGTGCACCGTCTCGGAAATGGCAG  
 CGACGGTTCTTACCTTTACGAGCACGGCCTCTTGCGCTACGCCCTGGATGAGATGCCACGACCCCTTC  
 CTCAGGGCACCATCAACATGAACCAAGTGCACAGATGTGGTGGATGGGGAGGGCCGCACGGCCAGAAGT  
 CTCCTGTGATTCTGACGCCTGAGAAGGAGCATTTTCATCCGGGCGGAGACCAAGGAGATCGTCAGTGGG  
 TGGCTGGAGATGCTCATGGTCTATCCCCGGACCAACAAGCAGAATCAGAAGAAGAAACGGAAAGTGGAGC  
 CCCCCACACCACAGGAGCCTGGGCTGCCAAGTGGCTGTTACCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
 CAGCAGCATCCCCAGTGTGAGAAAGTCCCCACCACCAAGTCCACACTCTGGCAGGAAGAAATGAGGACC  
 AAGGACCAGCCAGATGGCAGCAGCCTGAGTCCAGCTCAGACTCCAGCCAGAGCCAGCCTCCTGCTGCCA  
 GCTCCCTGCGGGAACCTGGGCTAGAGAGCAAAGAAGAGGAGCGCCATGAGTAGCGCAGCATGGACTG  
 TGGCCGCAAAGTCCGGGTGGAGAGCGGCTACTTCTCTCTGGAGAAGACCAACAGGACTTGAAGGCTGAA  
 GAACAGCAGCTGCCCCCGCCGCTCTCCCTCCCAGCCCCAGCCCCAACCCACAGGAGGTCCCAGGTGA  
 TTGAAAAGTTTGGAGCCTTGGACATTGAGAAGGCAGAGCACATGGAGACCAATGCAGTGGGGCCCTCACC  
 ATCCAGCGACACAGCCAGGGCCGAGCGAGAAGAGGGCGTTCCCTAGGAAGCGGGACTTACCAATGAA  
 GCCCCCCAGCTCCTCTCCAGACGCCTCGGCTTCCCCCTGTCTCCACACCGAAGGCCAAGTCACTGG  
 ACAGGAGTCCACGGAGCCCTCCGTGACCCCCGACCTGCTGAATTTCAAGAAAGGCTGGTGACTAAGCA  
 GTATGAGGACGGCCAGTGAAGAAACACTGTTTGTCTCGCCGATCAAAGCCTGAGATACTACAGGGAT  
 TCAGTGGCTGAGGAGGCAGCCGACTTGGATGGAGAAATGACTTGTCCGCATGTTACGATGTCACAGAGT  
 ATCCAGTTTCAGAGAACTATGGCTTCCAGATACATACAAAGGAGGGCGAGTTTACCTGTGGCCATGAC  
 ATCTGGGATTCGGCGAACTGGATCCAGACCATCATGAAGCACGTGCACCCGACCACTGCCCCGGATGTG  
 ACCAGCTCGTTGCCAGAGGAAAAAACAAGAGCAGCTGCTTTTTGAGACCTGCCGAGGCTACTGAGA



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AGCAAGAGGCAGAGCTGGGGGAGCCGGACCCTGAGCAGAAGAGGAGCCGCGCACGGGAGCGGAGCGGAGGCGAGA  
GGGCCGCTCCAAGACCTTGACTGGGCTGAGTTCCGTCCCATCCAGCAGGCCCTGGCTCAGGAGCGGGT  
GGCGCGTGGGGCCTGCTGACACCCACGAGCCCTGCCCTGAGGCGGAGCCTGGGAGCTGGAGCGG  
AGCGTGCACGGAGGCGGAGGAGCGCCGAAGCGCTTCGGATGCTCGACGCCACAGACGGGCCAGGCAC  
TGAGGATGCAGCCCTGCCATGGAGGTGGACCCGAGCCAGGGCTGCCTATGAGCGACCTCAAAACGCAT  
AACCTCCACGTGGAGATTGAGCAGCGGTGGCATCAGGTGGAGACCACACTCTCCGGGAAAGAAGCAGG  
TGCCCATCGCCCCGTCCACTGTCTTCTGAAGATGGGGGTGACCGGCTCTCCACACACGAGCTGACCTC  
TCTGCTCGAGAAGGAGCTGGAGCAGAGCCAGAAGGAGCCCTCAGACCTTCTGGAGCAGAACCAGGCTCTG  
CAGGACCACTGAGGGTGGCCCTGGGCCGGGAGCAGAGCGCCCTGAGGGCTACGTGCTGCAGGCCACT  
GCGAGCGAGGGTTTGCAGCAATGGAAGAAACGCCAGAGAAGATTGAAGATCTCCAGAGGCAGACCA  
GCGGGAGCTAGAGAACTTCGAGAAGAGAAAGCCGCTCCTAGCCGAGGAGACAGCGGCCACTATCTCA  
GCCATCGAAGCCATGAAGAACGCCACCCGGGAGGAAATGGAGCGGAGCTGGAGAAGAGCCAGCGGTCCC  
AGATCAGCAGCGTCAACTCGGATGTTGAGGCCCTGCGGCCAGTACCTGGAGGAGCTGCAGTCCGTGCA  
GCGGGAAGCTGGAGTCTCTCGAGCAGTACTCGCAGAAGTGCCTGGAGAATGCCATCTGGCCAGGGC  
CTGGAGGCGGAGCGGAGCCCTGCGGAGTGCAGCGTGAAGACAGGAGCTCAATGCCACAACCAGG  
AGCTGAACAACCCCTGGCTGCAGAGATCACACGGTTCGGGAGCTGCTGACTGGGGAGCGGCTGGGGA  
GGCCACTGGGTCACCCCTGCACAGGCAAGGATGCCTATGAACTAGAGGCTTATTGCGGGTAAAGGAA  
TCGGAATACAGTACCTGAAACAGGAGATTAGCTCCCTCAAGGATGAGCTGCAGACGGCACTGCGGGACA  
AGAAGTACGCAAGTGACAAGTACAAAGACATCTACACAGAGCTCAGCATCGCGAAGGCTAAGGCTGACTG  
TGACATCAGCAGGTTGAAAGGAGCAGCTCAAGGCTGCAACGGAAGCACTGGGGGAGAAGTCCCCTGACAGT  
GCCACGGTGTCCGGATATGATAAATAAATCTAAAAGCAACCCTGACTTCTTGAAGAAAAGCAGATCCT  
GTGTACCCGGCAACTCAGAAACATCAGGTCCAAGAGTCTGAAGGAAAGGCTGACGGTGAAGAAGCGTT  
GAAGCTCTTTGAATCCAGGGACTTGAAGAAAGAC

ACGCGTACGCGGGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC211386 representing NM\_015134  
**Red**=Cloning site **Green**=Tags(s)

MSAAKENPCRKFQANIFNKSCKQNCFKPRESHLLNDEDLTQAKPIYGGWLLLAPDGTFDFNPNVHRSRWQ  
RRFFILYEHLLRYALDEMPHTLTPQGTINMNQCTDVVDGEGRTGQKFSLCILTPEKEHFIRAETKEIVSG  
WLEMLMVPRTNKQNKRRKVEPPTPQEPGPAKVAVTSSSSSSSSSSSIPSAEKVPTTKSTLWQEEMRT  
KDQPDGSSLSPAQSPPASSLREPGLSEKSEESAMSSDRMDCGRKVRVESGYFSLKTKQDLKAE  
EQQLPPPLSPPSPSTPNHRRSQVIEKFEALDIEKAEHMETNAVGPSSDTRQGRSEKRAFPRKRDFTNE  
APPAPLPDASASPLSPHRRASLDRRSTEPSVTPDLLNFKKGWLTQYEDGQWKKHWFLADQSLRYRD  
SVAEEAADLDGIDL SACYDVTEYPVQRNYGFQIHTKEGFTLSAMTSGIRRNIQTIMKHVHPTTAPDV  
TSSLPEEKNKSSCFETCPRPTEKQEAELGEPDPEQKRSRARERRRREGSKTFDWAEFRPIQQALAQERV  
GGVGPADTHEPLRPEAEPGELEERARRREERRKFGMLDATDGPGETAALRMEVDRSPGLPMSDLKTH  
NVHVEIEQRWHQVETPLREKQVPIAPVHLSSEDDGGDRLSTHELTSLLEKELEQSQKEASDLLEQNRL  
QDQLRVALGREQSAREGYVLQATCERGFAMEETHQKKIEDLQRQHRELEKREKDRLLAETAATIS  
AIEAMKNAHREEMERELEKSQRSQISSVNSDVEALRRQYLEELQSVQRELEVLSEYQSQKLENAHLQA  
LEAERQALRQCQRENQELNAHNQELNNRLAAEITRLRTLTDGDDGGEATGSPLAQKGDAYEVLVLRVKE  
SEIQYLKQEISSLKDDELQALRDKKYASDKYKDIYTELIAKAKADCDISRLKEQLKAATEALGEKSPDS  
ATVSGYDIMKSKSNPDFLKDRSCVTRQLRNIRSKSLKEGLTVQERLKLFEFRDLKDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

**Restriction Sites:**

Sgfl-MluI

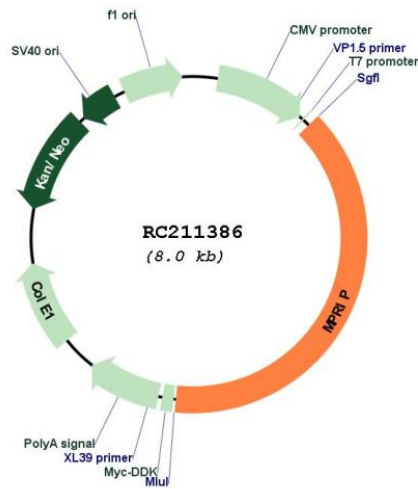
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_015134

ORF Size: 3114 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>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_015134.4</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>MW:</b>	117.9 kDa
<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 MPRIP as well as its F-actin-binding region leads to disassembly of stress fibers in neuronal cells.[UniProtKB/Swiss-Prot Function]</p>