

Product datasheet for **RG211386**

MPRIP (NM_015134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPRIP (NM_015134) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPRIP
Synonyms:	M-RIP; MRIP; p116Rip; RHOIP3; RIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211386 representing NM_015134 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCAGCCAAGGAGAACCCTGCAGGAAATCCAGGCCAACATCTTCAACAAGAGCAAGTGTGAGA
ACTGCTTCAAGCCCCGCGAGTGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAAACCCATTTATGG
CGGTTGGCTGCTCCTGGCTCCAGATGGGACCGACTTTGACAACCCAGTGCACCGGTCTCGGAAATGGCAG
CGACGGTCTTTCATCCTTACGAGCACGGCTCTTGCCTACGCCCTGGATGAGATGCCACGACCCCTTC
CTCAGGGCACCATCAACATGAACAGTGCACAGATGTGGTGGATGGGAGGGCCGCACGGCCAGAAGTT
CTCCCTGTGATTCTGACGCTGAGAAGGAGCATTTCATCCGGGCGGAGACCAAGGAGATCGTCAGTGGG
TGCTGGAGATGCTCATGGTCTATCCCCGACCAACAAGCAGAATCAGAAGAAGAAACGGAAAGTGGAGC
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CAGCAGCATCCCCAGTGTGAGAAAGTCCCCACCACCAAGTCCACACTCTGGCAGGAAGAAATGAGGACC
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TTGAAAAGTTTGAGGCTTGACATTGAGAAGGCAGAGCACATGGAGACCAATGCAGTGGGGCCCTCACC
ATCCAGCGACACAGCCAGGCGCCAGCGAGAAGAGGGGCTTCCCTAGGAAGCGGGACTTACCAATGAA
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ACAGGAGGTCCACGGAGCCCTCCGTGACGCCGACCTGCTGAATTTCAAGAAAGGCTGGCTGACTAAGCA
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ACCAGCTCGTTGCCAGAGGAAAAACAAGAGCAGCTGCTCTTTTGGAGACCTGCCGAGGCCTACTGAGA
 AGCAAGAGGCAGAGCTGGGGGAGCCGGACCCTGAGCAGAAGAGGAGCCGCGCACGGGAGCGGAGCGGAGA
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 GCCACGGTGTCCGGATATGATATAATGAAATCTAAAAGCAACCTGACTTCTTGAAGAAAAGCAGATCCT
 GTGTACCCCGCAACTCAGAAACATCAGGTCCAAGAGTCTGAAGGAAGGCCTGACGGTGAAGAACGGTT
 GAAGCTCTTTGAATCCAGGGACTTGAAGAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211386 representing NM_015134
 Red=Cloning site Green=Tags(s)

MSAAKENPCRKFQANIFNKSCKQNCFKPRESHLNDEDLTQAKPIYGGWLLLAPDGTDFDNPVHRSRKWQ
 RRFIFILYEHLLRYALDEMPPTLPQGTINMNQCTDVVDGEGRTGQKFSLCILTPEKEHFIRAETKEIVSG
 WLEMLMVPRTNKQNKKKRKEPPTPQEPGPAKVAVTS SSSSSSSSSSIPSAEKVPTTKSTLWQEEMRT
 KDQPDGSSLSPAQSPSQSPPAASSLREPGLESKEEESAMSSDRMDCGRKVRVESGYFSLEKTKQDLKAE
 EQQLPPPLSPPSPSTPNHRRSQVIEKFEALDIEKAEHMETNAVGPSPSSDTRQGRSEKRAFPRKRDFTNE
 APPAPLPDASASPLSPHRRAKSLDRRSTEPSVTPDLLNFKKGWLTQYEDGQWKKHWFVLADQSLRYRD
 SVAEAAADLDGEIDL SACYDVTEYPVQRNYGFQIHTKEGEFTLSAMTSGIRRNWIQTIMKHVHPTTAPDV
 TSSLPEEKNKSSCSFETCPRPTEKQEAELGEPDPEQKRSRARRRRREGRSKTFDWAEFRPIQQALAQERV
 GVGVPADTHEPLRPEAEPGELEERARRREERRKRF GMLDATDGPGETAALRMEVDRSPGLPMSDLKTH
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 QDQLRVALGREQSAREGYVLQATCERGFAMEETHQKKIEDLQRQHORELEKLRREEKDRLLAEETAATIS
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 SEIQYLKQEISSLKDELQALRDKKYASDKYKDIYTELSIAKAKADCDISRLKEQLKAATEALGEKSPDS
 ATVSGYDIMKSKSNPDFLKKDRSCVTRQLRNIRSKSLKEGLTVQERLKLFE SRDLKDD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_015134.4](#)

RefSeq Size: 3858 bp

RefSeq ORF: 3117 bp

Locus ID: 23164

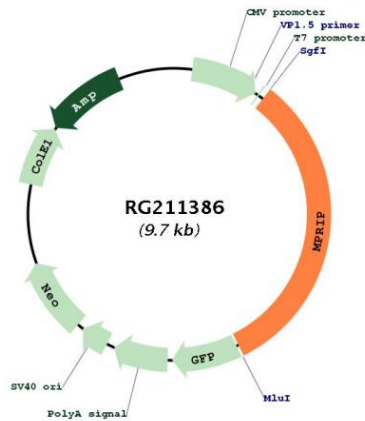
UniProt ID: [Q6WCQ1](#)

Cytogenetics: 17p11.2

Protein Families: Druggable Genome

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 MPRIP as well as its F-actin-binding region leads to disassembly of stress fibers in neuronal cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211386