

Product datasheet for **RG224291**

MPRIP (NM_201274) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPRIP (NM_201274) 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:	>RG224291 representing NM_201274 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCAGCCAAGGAGAACCCTGCAGGAAATCCAGGCCAACATCTTCAACAAGAGCAAGTGTGAGA
ACTGCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAAACCCATTTATGG
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CTCAGGGCACCATCAACATGAACAGTGCACAGATGTGGTGGATGGGAGGGCCGACGGCCAGAAGTT
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TTGAAAAGTTTGAGGCTTGACATTGAGAAGGCAGAGCACATGGAGACCAATGCAGTGGGCGCTCACC
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ACCAGCTCGTTGCCAGAGGAAAAACAAGAGCAGCTGCTCTTTTGGAGACCTGCCGAGGCCTACTGAGA
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 GCCACGGTGTCCGGATATGATATAATGAAATCTAAAAGCAACCTGACTTCTTGAAGAAAAGACAGATCCT
 GTGTCACCCGGCAACTCAGAAACATCAGGTCCAAGTCCGTAATTGAGCAGGTCTCGTGGGATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224291 representing NM_201274
 Red=Cloning site Green=Tags(s)

MSAAKENPCRKFQANIFNFKSKCQNCFKPRESHLLNDEDLTQAKPIYGGWLLLAPDGTDFDNPVHRSRKWQ
 RRFILYEHGLLRYALDEMPPTLPQGTINMNQCTDVVDGEGRTGQKFSLCILTPEKEHFIRAETKEIVSG
 WLEMLMYYPRTNKQNKKKRKEVPTPQEPGPAKVAVTSSSSSSSSSSIPSAEKVPTTKSTLWQEMRT
 KDQPDGSSLSPAQSPSQSPPAASSLREPGLESKEEESAMSSDRMDCGRKVRVESGYFSLEKTKQDLKAE
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 TSSLPEEKNKSSCSFETCPRPTEKQEAELGEPDPEQKRSRARRRRREGSKTFDWAEFRPIQQALAQERV
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 QDQLRVALGREQSAREGYVLQATCERGFAMEETHQKKIEDLQRQHRELEKLRREKDRLLAEETAATIS
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 LEAERQALRQCQRENQELNAHNQELNNRLAAEITRLRLLTGDDGGEATGSPLAQKDAYELEVLLRVKE
 SEIQYLKQEISSLKDELQALRDKKYASDKYKDIYTELSIAKAKADCDISRLKEQLKAATEALGKSPDS
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TRTRPLE - GFP Tag - V

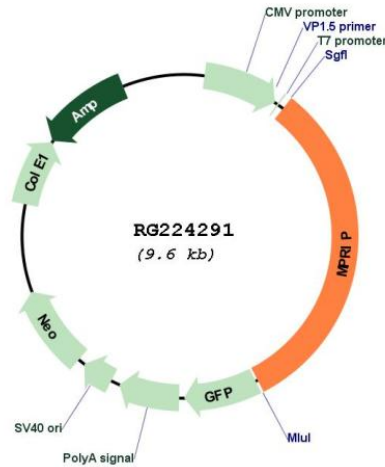
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_201274

ORF Size: 3075 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_201274.4
RefSeq Size:	11023 bp
RefSeq ORF:	3078 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 MRIP as well as its F-actin-binding region leads to disassembly of stress fibers in neuronal cells.[UniProtKB/Swiss-Prot Function]