

## Product datasheet for MR211499

### Mprip (NM\_201245) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mprip (NM_201245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mprip
Synonyms:	9530046C02; AA536749; AI647711; C76423; mKIAA0864; p116Rip; Rhoip3; RIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211499 representing NM_201245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGTCGGCGGCCAAGGAAAACCCGTGCAGGAAATTCAGGCCAACATCTTCAACAAGAGCAAGTGCAG  
ACTGCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAAACCCATTTATGG  
TGGCTGGCTGCTCCTGGCTCCAGATGGCACTGACTTTGACAACCCAGTGCACCGGTACGGAATGGCAG  
CGACGATCTTCATCCTTATGAGCATGGCCTCTTGCATATGCCCTGGATGAGATGCCACCACCCTCC  
CTCAGGGCACCATCAACATGAACAGTGCACAGATGTGGTGGATGGGAGGCCCGCACAGGGCAGAAGTT  
CTCCCTCTGCATCCTGACACCTGACAAGGAACATTTATCAGGGCAGAAACCAAGGAGATCATCAGTGGG  
TGGTTAGAGATGCTCATGGTGTATCCTCGAACCAAGCAGAACCAGAAAGAAACCGAAAGTAGAGC  
CACCTACCCACAGGAGCCTGGGCTGCTAAGATGGCTGTCACTAGCAGTAGTGGCGGCAGCAGTGGTAG  
CAGCAGCAGCATTCCCAGTGTGAGAAAGTTCCCACCACCAATCCACACTCTGGCAGGAAGAAATGAGA  
GCCAAAGACCAACCTGATGGGACCAGCCTGAGTCCAGCTCAAAGTCCCAGCCAAAGCCAGCCTCCTGCTG  
CTTGACACCCACGGGAACCAGGACTAGAAAGCAAAGAAGTGAAGCACCATAAGTGGGGACCGTGTGGA  
TGGTGGTCGAAAGTACGGGTAGAGACGGCTACTTCTCCCTGGAGAAGGCCAAGCAGGACCTGAGGGCT  
GAGGAGCAGCTGCCCCACTACTCTCCCACCCAGCCCCAGCCACACAGCAGGAGGTCCCAGGTAA  
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GAAGCCCCACAGCTCCTCTCAGATGCTTGTCCCTGTCTCCACCCGAAGAGCCAAGTCATTGGACA  
GGAGGTCCACAGAATCCTCCATGACGCTGACCTGCTGAATTTCAAGAAAGGCTGGCTAACCAAGCAGTA  
TGAGGATGGCCAGTGAAGAAACACTGGTTTGTCTGGCAGATCAGAGCCTGAGATACTACAGGGATTCC  
GTGGCTGAGGAGGACGCTGACCTAGATGGAGAAATTAACCTGTCCACTTGCTATGATGCTACTGAGTATC  
CAGTCCAGAGAACTATGGCTTTAGATACATACCAAGGAGGGTGAAGTTCACCTCTCAGCCATGACATC  
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AGCTCATTGCCTGAGGGAAAGAATAAAAGCACATCTTTTGAGACCTGCTCAAGGTCAACTGAGAAGCAAG  
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 TTACCCGCAACTCAGAAACATCAGGTCCAAGAGTCTGAAGGAAGGCCTGACGGTGCAGGAGCGCTTGAA  
 GCTCTTTGAATCCAGGGACTTGAAGAAAGAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>MR211499 representing NM\_201245  
 Red=Cloning site Green=Tags(s)

MSAAKENPCRKFQANIFNKSCKQNCFKPRESHLLNDEDLTQAKPIYGGWLLLAPDGTDFDNPVHRSRKWQ  
 RRFIFILYEHLLRYALDEMPPTLPQGTINMNQCTDVVDGEARTGQKFSLCILTPDKEHFIRAETKEIISG  
 WLEMLMVYPRTNKQNKKKRVEPPTPQEPGPAKMAVTSSSGGSSGSSSSIPSAEKVPTTKSTLWQEEMR  
 AKDQPDGTSLSAQSPSQSPPAACTPREPGLSEKEDESTISGDRVDGGRKVRVESGYFSLEKAKQDLRA  
 EEQLPPLLSPSPSTPHSRRSQVIEKFEALDIEKAEHMETNMLILTTPSSDTRQGRSERRAIPRKRDFAS  
 EAPTAPLSDACPLSPHRRAKSLDRRSTESSMTPDLLNFKKGWLTKQYEDGQWKKHWFVLADQSLRYRDS  
 VAEAAADLDGEINLSTCYDVTEYPVQRNYGFQIHTKEGEFTLSAMTSGIRRNWIQTIMKHVLPASAPDVT  
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 VGSSSDSGDPGCLAEPEGELERARRRERRRKRFGMLDTIDGPGMEDTALRMDIDRSPGLLGTPDLKTQN  
 VHVEIEQRWHQVETTPLEEKQVPIAPLHLSLEDRSERLSTHELTSLEKELEQSQKEASDLLEQNRLQ  
 DQLRVALGREQSAREGYVLQATCERGF AAMEETHQKKIEDLQRQHORELEKLREEKDRLLAEETAATISA  
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 EAERQALRQCQRENQELNAHNQELNNRLAAEITRLRLLTGDDGGESTGLPLTQGDAYELEVLLRVKES  
 EIQLKQEISSLKDELQALRDKKYASDKYKDIYTELSIAKAKADCDISRLKEQLKAATEALGEKSPEGT  
 TVSGYDIMGKSNPDFLKKDRSCVTRQLRNIRSKSLKEGLTVQERLKLFE SRDLKKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9095\\_c01.zip](https://cdn.origene.com/chromatograms/mm9095_c01.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_201245

ORF Size: 3111 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:
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

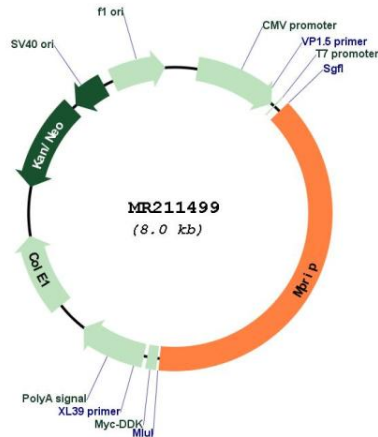
UniProt ID: [P97434](#)

**Cytogenetics:** 11 B1.3

**MW:** 118 kDa

**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]

**Product images:**



Circular map for MR211499