

Product datasheet for MC223236

Mprip (NM_012027) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mprip (NM_012027) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mprip
Synonyms:	9530046C02; AA536749; AI647711; C76423; mKIAA0864; p116Rip; Rhoip3; RIP3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223236 representing NM_012027 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCGGCCAAGGAAAACCCGTCAGGAAATTTTCAGGCCAACATCTTCAACAAGAGCAAGTGTGAG
ACTGCTTCAAGCCCCGCGAGTCGCATCTGCTCAACGACGAGGACCTGACGCAGGCAAACCCATTTATGG
TGGCTGGCTGCTCCTGGCTCCAGATGGCACTGACTTTGACAACCCAGTGCACCGGTACGGAATGGCAG
CGACGATTCTTATCCTTTATGAGCATGGCCTCTTGCATATGCCCTGGATGAGATGCCACCACCTCC
CTCAGGGCACCATCAACATGAACCAAGTGCACAGATGTGGTGGATGGGGAGGCCCGCACAGGGCAGAAGTT
CTCCCTCTGCATCCTGACACCTGACAAGGAACATTTTATCAGGGCAGAAACCAAGGAGATCATCAGTGGG
TGGTTAGAGATGCTCATGGTGTATCCTCGAACCAACAAGCAGAACCAGAAGAAGAAACGGAAAGTAGAGC
CACCTACCCACAGGAGCCTGGGCTGCTAAGATGGCTGTCACTAGCAGTAGTGGCGGCAGCAGTGGTAG
CAGCAGCAGCATTCCCAGTGTGAGAAAGTTCCCACCACCAATCCCACTCTGGCAGGAAGAAATGAGA
GCCAAAGACCAACCTGATGGGACCAGCTGAGTCCAGCTCAAAGTCCCAGCCAAAGCCAGCCTCCTGCTG
CTTGCACCCACGGGAACCAGGACTAGAAAGCAAAGAAGATGAAAGCACCATAGTGGGGACCGTGTGGA
TGGTGGTCGGAAGTACGGGTAGAGAGCGCTACTTCTCCCTGGAGAAGGCCAAGCAGGACCTGAGGGCT
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GAAGCCCCACAGCTCCTCTCAGATGCTTGTCCCTGTCTCCACCCGAAGAGCCAAGTCATTGGACA
GGAGGTCCACAGAATCCTCCATGACGCTGACCTGCTGAATTTCAAGAAAGGCTGGCTAACCAAGCAGTA
TGAGGATGGCCAGTGAAGAAACACTGGTTTGTCTGGCAGATCAGAGCCTGAGATACTACAGGGATTCC
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CAGTCCAGAGAACTATGGCTTTAGATACATACCAAGGAGGGTGAAGTACCCTCTCAGCCATGACATC
TGGCATACGACGGAACCTGGATCCAGACCATTATGAAACATGTGCTCCAGCATCTGCCCCAGATGTGACC
AGCTATTGCCTGAGGAAAGAATAAAAGCACATCTTTTGGACCTGCTCAAGGTCAACTGAGAAGCAAG



AAGCTGAGCCAGGAGAGCCAGATCCTGAACAAAAGAAGAGCCGTGCTCGAGAGCGGAGGCCGGGAGGGTCC
 CTCCAAGACCTTTGACTGGGCTGAATCCGCCCTATACAACAGGCCCTGGCTCAAGAAAGGGCCAGCGCT
 GTTGGGCTTTCTGATTCTGGTGACCCTGGGTGTCTTGAAGCCGAGCCAGGTGAGCTGGAGCGTGAACGAG
 CTCGACGTCGAGAAGAACGCCGAAGCGCTTTGGGATGCTGGACACCATTGATGGACCAGGAATGGAGGA
 CACAGCCCTACGTATGGACATCGACCGGAGCCAGGGTGCTGGGAACCCCTGACCTCAAGACACAGAAT
 GTCCACGTGAAAATTGAGCAGCGTTGGCATCAAGTGGAGACCACCCTCTCAGGGAGGAGAAACAGGTGC
 CCATTGCCCTCTGCACCTATCCTTGGAGGACAGAAGTGAAGCGGCTCCACACATGAGCTCACCTCTCT
 GCTAGAGAAGGAGCTGGAGCAGAGCCAGAAAGAAGCCTCGGATCTTCTAGAGCAGAACCAGGCTTCTACAG
 GACCAGTTAAGGGTGGCCCTGGGCGAGAGAACAGAGTGCCCGGGAGGGCTATGTGCTGCAGGCTACATGTG
 AGCGAGGCTTTGCCGCCATGGAGGAGACACATCAGAAGAAGATTGAAGACCTACAGAGGCAACACCAGCG
 GGAGCTAGAGAAGCTGCGGGAGGAAAAAGACCGCCTCCTGGTGAGGAGACAGCTGCCACCATATCAGCC
 ATTGAAGCCATGAAGAATGCTCACCGAGAGGAGATGGAACGAGAGTTAGAGAAGAGCCAGCGGTCTCAGA
 TCAGCAGCATCAATTAGACATAGAAGCCCTGAGGCGACAGTACCTGGAGGAGCTGCAGTCAAGTGCAGCG
 GGAGCTGGAAGTCTTTAGAGCAGTACTCCAAAAGTGCCTGGAGAATGCACACCTAGCCAGGCGCTG
 GAGGCCGAGCGTACAGCCCTGCGCAATGCCAGCGTGAGAACCAGGAGCTCAACGCCACAACCAGGAGC
 TGAATAACCGCCTGGCTGCGGAGATCACACGGTTGCGGACACTACTGACTGGAGACGGTGGTGGGGAGTC
 CACTGGGTTGCCTCTCACACAGGCAAGGATGCCTATGAGTTAGAGGTCTTGTTCGCGGTCAAAGAGTCA
 GAAATCCAGTACCTGAAACAGGAGATCAGCTCCCTCAAGGATGAACTCCAGACAGCCCTGCGGGATAAGA
 AGTATGCTAGTGACAAGTACAAAGACATCTACACTGAGCTCAGCATTGCCAAGGCCAAGGCTGACTGCGA
 CATCAGCAGGCTGAAGGAGCAGCTGAAAGCAGCCACAGAGGCACTGGGCGAGAAATCTCCTGAAGGCACT
 ACTGTGTCAGGATATGACATAATGAAATCTAAAAGCAATCCTGACTTCTGAAGAAAGACAGATCCTGTG
 TTACCCGGCAACTCAGAAACATCAGGTCCAAGTCCGTAATTGAGCAGGTCTCATGGGATAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012027
- Insert Size:** 3075 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_012027.2](#), [NP_036157.2](#)
- RefSeq Size:** 8784 bp
- RefSeq ORF:** 3075 bp

Locus ID: 26936

UniProt ID: [P97434](#)

Cytogenetics: 11 B1.3

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]
Transcript Variant: This variant (2) has an additional exon in the 3' coding region that causes a frameshift, compared to variant 1. The encoded protein (isoform 2) has a shorter and distinct C-terminus, compared to 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.