

## Product datasheet for **MC223936**

### Mtus1 (NM\_001005863) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtus1 (NM_001005863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtus1
Synonyms:	AI481402; ATBP135; Atip1; B430010I23Rik; B430305I03Rik; C85752; Cctsg1-440; MD44; mKIAA1288; MTSG1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223936 representing NM_001005863 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGATGATAATTCAGATAGGACAGAAGATGGATCGCGTTATGTATTTATCCGAGATAAAAACTCGA  
ATCCATCTGAATACTACCAAACATCGCTATCTGCCAGTGCCTTCAGTGAGTACCGGGATTGAACTC  
TGACAACCCAGATGCCATGGTGGTCGATTATGAAATGGATCCTGCGGTGGACAGTAGTGAAAGTGTATCT  
TTAAGCCATCAGTGTGTGAAGAACTTGCTTACCCAGAGCCTTCAAGTATTCATGGGGAAGCATGAGT  
TTACAATGTACAGTGAGCTTACCTGCCAGTCTCCTGCACTTGTGAACACAGGGAAGCCCCAAGACCTGCA  
CAGTAACCTGTGACTCCCTAGAGGCAATCCAGGATGAGAAGTTTGATCCCTTAAGCCCTGTGAGTGCAGG  
TCTGATGACGATTATGCTTGTGGAGATCCCTGAAGTTTTGGAGCTAAAACAAACATATGGCATGAAAG  
TGGACACGGCTAACTACACCTTTATAGCACGCCATGATATTGAACAGGGTCAGCCTTTGCATGCTCCTGG  
AGGTTTGCAGACAACAGTGAGAGACAGAAATGCTTTGCTCCTGCGGTCCGGACACCACCCATTCTCT  
AAGATGTATGTGAGAGGGTTAATTATAATCGAGAGAACCTTTGAAAACCTCCAAGCCACACCATCCAAGA  
CCCTAAACACAACCTTTACAGTGATCTCTGATGTGCTGATGCAAACTGACAGTCCAGACGTTGGAGTTCA  
GGTCAAGATACAAGCTGTGACTGGTTTCGGATGGCATGGAGTCCCCAACGGATCTGCATCACAGGAT  
TCTATTGTGATCTGAAGATGACCCAAACAGTGAGACACATTCACACGGCCCGTATGCTCAACAGGAAAT  
GGGCCAAAATTTAAGAGGAACACTGCCAACTGTGATGTCGATGGTGAATGCCAGTACTGGTGCCAGCT  
TTTGAGAAGAGTAAAACAGAGTCTGGGCTCTGAGTGTAAAGTCACTGTGACTGAAGACCCACACATCG  
ATCCACGACAATGACTCAGACATCCAAGTAGTACTGAAGAGCTGACCTGAGAAGTGTTCAGGGCA  
GAGGGTTACCTTATGAAATGGTTGGGGCGAGAACGGCGGAGCCATTTGCACAGATAAAGCAGTTGC  
ATGTCAACACCAGTTGAGCAACCCCAATCTGAGCTTCAGACTTGAACCTGCTGAAGTGAAGAAGTACA  
ATAATGTGGAGAATGGACCAAGAGATGCTAAACGTGCACCAAACCTTGAAGGGGAACCAACAATATGCC  
AAAACCTAATTTGGGAAATCAGCTACCAAACAATACCACTGTAGGCAGTAAAGTCAAGGAAGACAGAA



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ATTATAAGTTATCCTACACCAAACCTTCAAAAACATTAAGCCAAAGTTATATCCAGATCAGTGTGCAAC  
 CCAAAGACACTTCCATAATGAAGGACACACCCAGCCCTCAGGTAACAGGGGGCTCTTACCATCACCAGG  
 GCCTTCTAAACACTTGACAATGATGAACAAAGCACCAAGATCTGACTTTAAAGCCAGCAAAAAGCAGAA  
 ATCCCAATTAACAAGACACACAAGCAACAGTTTAATAAACTCATTACCAGCCAGGCTGCGCAAGTTACAA  
 CTCATTCTAAAAATGCTTCACTCGGGGTCCAAGAACAACATCTGCCACGAAATCGAATCAGGAGAATGT  
 TGACAAGACAGGTTCTCCTCATGCAGGGAGTGAGACCGGGTCTGTAGTGCCTTCTCCAGAAGATCAAA  
 GGCATTTCCCGTGAAAAAGGTTGAAAAGCTCAGAGTGTGGAAAGTACTTACGTTTTCCACATCGATCAGA  
 TTAGCCCTGAAAAGGGTGAGCAGGACGGTGAGGCTCCCATGGAAAAGCAAGAGCTGGGAAAAACAAGCCAC  
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 AGCAGTTCGAAGCCAGACTCGCGGAGCCTGAGGAAAACACCAGGTCTAAAAGCCAAAGTGGGTCCCCTG  
 CTGCTGCCTGAGGAGGAAGAGTGAGAGTAGAACCCCTAGGCTCCGACAGGGCCTTATCGCTCAGAGGAT  
 CAGGCGCTGTCCGGCTCTGGTGGTCTGCTGCCATCAACAAATATGAAGAGAAACCTCCCAACAAGCA  
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 GTGTAACACCAAGTTTGAAGCGCTGACCGTTGTGATCCAGCACCTCCTGTCTGAGCGGGAGGAAGCACT  
 GAAGCAACACAAAACCTCTCTCAAGAACTTGTGAGCCTCCGGGGAGAGCTAGTTGCTGCTTCAAGCGCC  
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 AGCAGCATCAGACAGACCCGACGGAACCTGGAGAACCGGCTGAAGGACTTATACCCGCAGAGTGTGAGAA  
 GCTTCAGAGCATTTACATTGAGGAGGCAGAAAAATATAAACTCAACTGCAAGAGCAGTTTGACAACTTA  
 AACGCCGCCATGAGACCACTAAGCTTGAGATTGAAGCTAGCCACTCGGAGAAGGTGGAATTGCTGAAGA  
 AGACCTATGAAACCTCCCTTTCAGAAATCAAGAAGAGCCATGAGATGGAGAAGAAGTCACTGGAGGATCT  
 GCTTAATGAGAAGCAGGAATCGCTGGAGAAACAATCAATGATCTGAAGAGTGAAAAACGATGCTTTAAAC  
 GAAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAGAGAAGGCGAATTCAAAAAACCTCAGGTCA  
 TGTATCTGGAGCAAGAACTAGAAAGCCTGAAGGCTGTGTTAGAGATCAAGAATGAGAAGTGCACCAGCA  
 GGACATGAAGCTAATGAAGATGGAAAAGCTGGTGGACAATAACACAGCATTGGTTGACAAGTGAAGCGA  
 TTCCAGCAGGAAAACGAGGAGTTAAAAGCTCGCATGGACAACACATGGCAATTTCAAGGCAACTTTCCA  
 CCGAGCAGGCCGCTGCAGGAGTCCCTTGAAGGAGTCAAGGTCACAAGAGACTGTCCATGGAGAA  
 CGAGGAACCTCTGTGAAAAGTGCACAACGAGACCTGTGCAGCCCAAGAGATCCCCACCTCCTCGGCC  
 ATCCCTTCCAGTCCCCAGGAATCTGGTTCCTTCTCCAGCCCCAGCATCTACCCAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_001005863

**Insert Size:**

3633 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\\_001005863.2](#), [NP\\_001005863.1](#)

**RefSeq Size:** 6554 bp

**RefSeq ORF:** 3633 bp

**Locus ID:** 102103

**UniProt ID:** [Q5HZI1](#)

**Cytogenetics:** 8 A4

**Gene Summary:** Cooperates with AGTR2 to inhibit ERK2 activation and cell proliferation. May be required for AGTR2 cell surface expression. Together with PTPN6, induces UBE2V2 expression upon angiotensin-II stimulation.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Variants 1 and 5 encode the same protein.