

## Product datasheet for **MC215853**

### **Mtus1 (NM\_001005865) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtus1 (NM_001005865) 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



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**Fully Sequenced ORF:** >MC215853 representing NM\_001005865  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGTTGTCTCCCAAATTCTCCTTATCCACCATCCACGTCCGCCTAACCGCCAAAGGACTGCTTCGAA  
 ACCTCCGGCTTCCTTCGGGGCTCAGAAAAACACTGTCATTTTCCACACAGTTGAAAAGGCAGGCAGAA  
 GAATCCCAGGAGCCTATGCATCCAGACCCAGACAGCTCCAGATGTGCTGTCTCCGAGAGAACGCTTGAG  
 TTGGCCAATACAAGACAAAATGTGAAAGCCAAAGTGGATTATCCTGCACCTCAGACAGCTTCTTTCC  
 GTGGTAACACCAAGTTTGAAGCGCTGACCGTTGTGATCCAGCACCTCCTGTCTGAGCGGGAGGAAGCACT  
 GAAGCAACACAAAACCTCTCTCAAGAACTTGTCAAGCTCCGGGGAGAGCTAGTTGCTGCTTCAAGCGCC  
 TGTGAGAACTAGAAAAGGCTAGGACTGACTTACAGACAGCGTATCAAGAATTTGTCAGAACTAAACC  
 AGCAGCATCAGACAGACCGGACGGAAGTGGAGAACCGGCTGAAGGACTTATACCCGAGAGTGTGAGAA  
 GCTTCAGAGCATTACATTGAGGAGGCAGAAAAATATAAACTCAACTGCAAGAGCAGTTTGACAACCTA  
 AACGCCGCCATGAGACCACTAAGCTTGAGATTGAAGCTAGCCACTCGGAGAAGGTGGAATTGCTGAAGA  
 AGACCTATGAAACCTCCCTTTCAGAAATCAAGAAGAGCCATGAGATGGAGAAGAAGTCACTGGAGGATCT  
 GCTTAATGAGAAGCAGGAATCGCTGGAGAAACAAATCAATGATCTGAAGAGTGAAGACGATGCTTTAAAC  
 GAAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAGAGAAGGCGAATTCAAAAACCTCAGGTCA  
 TGTATCTGGAGCAAGAAGTAAAGGCTGAAGGCTGTGTTAGAGATCAAGAATGAGAAGTGCACCAGCA  
 GGACATGAAGCTAATGAAGTGGAAAAGCTGGTGGACAATAACACAGCATTGGTTGACAAGTGAAGCGA  
 TTCCAGCAGGAAAACGAGGAGTTAAAAGCTCGCATGGACAACACATGGCAATTTCAAGGCAACTTTCCA  
 CCGAGCAGGCCGCGCTGCAGGAGTCCCTTGAGAAGGAGTCAAGGTCGAACAAGAGACTGTCCATGGAGAA  
 CGAGGAACCTCTGTGAAAAGTGCACAACGAGACCTGTGCAGCCCAAGAGATCCCCACCTCCTCGGCC  
 ATCCCTTTCAGTCCCCAGGAATTCTGGTTCTTCTCCAGCCCCAGCATCTCACCCAGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001005865
- Insert Size:** 1323 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\_001005865.3, NP\_001005865.2

RefSeq Size: 4169 bp

RefSeq ORF: 1323 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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. This results in shorter protein (isoform 4) with a distinct N-terminus, compared to isoform 1.