

Product datasheet for **MC217493**

Mtus1 (NM_001005864) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtus1 (NM_001005864) 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: >MC217493 representing NM_001005864
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTATACCAGGAGGATTTTCGCAAGTGTACAGAACTGATATTTCTTCAACGATCTTTATCAATTCTA
 CACTCACACCCCGGCCGCTCAGAAAGGCAGTATGATGCTACCTTACTGGCACTGCTTGTGCGTGGGATC
 CTACAGCCTTTGTATAATTCCTTTGTTAGCCACGCTTACTAGGAAAAAGTGGTCATGCTGCCATCAAC
 AAATATGAAGAGAACTCCCAAACAAGCATTTGAGAATGGGTCAGGACCTTGTATCTGAAGCCTTTGG
 TACCCAGAGCTCACTCGCACTTGTCAAACCTTCCAAAAGGTCCTTCAAGGAAGAGTCTGTTTACAGC
 TTTTAATTCAGTTGAAAAGGGCAGGCAGGAAGAATCCAGGAGCCTATGCATCCAGACCCAGACAGCTCCA
 GATGTGCTGTCTCCGAGAGAACGCTTGAGTTGGCCCAATACAAGACAAAATGTGAAAGCCAAAGTGGAT
 TCATCCTGCACCTCAGACAGCTTCTTTCCCGTGGTAACACCAAGTTTGAAGCGCTGACCGTTGTGATCCA
 GCACCTCTGTCTGAGCGGGAGGAAAGCACTGAAGCAACACAAAACCTCTCTCAAGAAGTGTGAGCCTC
 CGGGGAGAGCTAGTTGCTGCTTCAAGCGCTGTGAGAAGCTAGAAAAGGCTAGGACTGACTTACAGACAG
 CGTATCAAGAATTTGTCCAGAACTAAACCAGCAGCATCAGACAGACCGGACGGAAGTGGAGAACCAGGCT
 GAAGGACTTATACACCGCAGAGTGTGAGAAGCTTCAAGCATTACATTGAGGAGGCAGAAAAATATAAA
 ACTCAACTGCAAGAGCAGTTTGACAACCTTAAACGCCGCCATGAGACCAAGCTTGAAGATTGAAGCTA
 GCCACTCGGAGAAGGTGGAAATGCTGAAGAAGACCTATGAAAACCTCCCTTTCAGAAATCAAGAAGAGCCA
 TGAGATGGAGAAGAAGTCACTGGAGGATCTGCTTAATGAGAAGCAGGAATCGCTGGAGAACAATCAAT
 GATCTGAAGAGTGAACACGATGCTTTAAACGAAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAG
 AGAAGGCGAATTCAAAAACCTCAGGTCATGTATCTGGAGCAAGAACTAGAAAAGCTGAAGGCTGTGTT
 AGAGATCAAGAATGAGAAGCTGCACCAGCAGGACATGAAGCTAATGAAGATGGAAGGCTGGTGGACAAT
 AACACAGCATTGTTGACAAGCTGAAGCGATTCCAGCAGGAAAACGAGGAGTTAAAAGCTCGCATGGACA
 AACACATGGCAATTTCAAGGCAACTTTCCACCGAGCAGGCCGCGCTGCAGGAGTCCCTTGAAGGAGTCA
 GAAGGTCAACAAGAGACTGTCCATGGAGAACGAGGAACTTCTGTGAAACTGCACAACGGAGACCTGTGC
 AGCCCCAAGAGATCCCCACCTCCTCGGCCATCCCTTTCCAGTCCCCAGGAATTCTGGTTCCTTCTCCA
 GCCCAGCATCTACCCAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001005864

Insert Size: 1563 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_001005864.3](#), [NP_001005864.1](#)

RefSeq Size: 4156 bp

RefSeq ORF: 1563 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 (3) 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 3) with a distinct N-terminus, compared to isoform 1.