

Product datasheet for **MG211056**

Mtus1 (BC041777) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtus1 (BC041777) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtus1
Synonyms:	ATBP135, MTSG1, Cctsg1-440, mKIAA1288, Atip1, MD44, B430010I23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211056 representing BC041777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAAAATTTAAGAGGAACACTGCCCACTGTCATGTCGATGGTGAATGCCAGTACTGGTGCCAG
 CTTTTGAGAAGAGTAAAACCAGAGTCTGGGCTCTGAGTGTAAAGTCACTGTGACTGAAGACCCACACAT
 CGATCCCATGACAATGACTCAGACATCCAAAGTACTGAAAGAGCTGACCCTGAGAAGTGTTCAGGG
 CAGAGGGGTTTCATCTTATGAAATGGGTTGGGGCGAGAACGGCGGAGCCATTTGCACAGATAAAGCAGGTT
 GCATGTCAACACCAGTTAAGCAACCCCCAATCTGAGCTTCAGACTTGAACCTGCTGAAGTGAAGAAGTA
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 AACGAGGAACTTCTGTGAAAACGACACAACGGAGACCTGTGCAGCCCAAGAGATCCCCACCTCCTCGG
 CCATCCCTTCCAGTCCCCAGGAATTTCTGTTCTTCTCCAGCCCCAGCATCTCACCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG211056 representing BC041777
 Red=Cloning site Green=Tags(s)

MGQNLRGTLPNCHVDGCEPVLVPAFEKSKTRVLGSECKVTVTEDPHIDSHDNDSDIQSSTEELTLRSVSG
 QRGSSYEMGWGENGGAICTDKAGCMSTPVKQPPNL SFRLEPAEVKYNVVENGPRDAKSAPNLKGEPTNM
 PKPNLKGSA TKNTTTVSGSKVRKTEIISYPTPNFKNIKAKVISRVLQPKDTSVMKDTPNPQVTGGSSPSP
 GP SKQLTMMNKAPRSDFKAGKKA EIPINKTHKQQFNKLITSQAQVTTTHSKNASLGVPRTTSAAKSNQEN
 VDKTGSFHAGSETGSVAFFQKIKGILPVKMKSECLEVTYVSHIDQISPEKGEQDGEAPMEKQELGKQA
 TNEIFESKSLLVGSAPKTSTTPGRSSSKPDSRSLRKT PGLKAKVGPTAACLRKSESRTLGS DRALSPQR
 IRRVSGSGGHA AINKYEEKPPKQAFQNGSGPLYLKPLVPRAHSHLLKTS PKGPSRKS LFTAFNSVEKGRQ
 KNPRSLCIQTQTAPDVLSSERTLELAQYTKCESQSGFILHLRQLL SRGNTKFEALTVVIQHLLSEREEA
 LKQHKTL SQELVSLRGELVAASSACEKLEKARADLQTAYQEFVQKLNQQHQTDRTLENLKDLTYAECE
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 LLNEKQESLEKQINDL KSENDALNERLKSEEQQLSREKANSKNPQVMYLEQELES LKAVLEIKNEKLHQ
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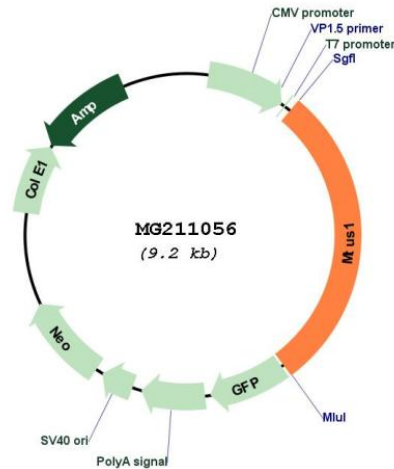
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC041777

ORF Size: 2652 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: [BC041777.1](#)

RefSeq Size: 5218 bp

RefSeq ORF: 2654 bp

Locus ID: 102103

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]