

Product datasheet for **RG230037**

MTUS1 (NM_001166393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTUS1 (NM_001166393) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTUS1
Synonyms:	ATBP; ATIP; ATIP3; ICIS; MP44; MTSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230037 representing NM_001166393 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACTCCTCCAAAAGGTCCTTCGAGAAAAATTTTACAGCTCTTAATGCAGTTGAAAAGAGCA
GGCAAAGAATCCTCGAAGCTTATGTATCCAGCCACAGACAGCTCCCGATGCGCTGCCCCCTGAGAAAAC
ACTTGAATTGACGCAATATAAAACAAAATGTGAAAACCAAAGTGGATTTATCCTGCAGCTCAAGCAGCTT
CTTGCCTGTGGTAATACCAAGTTTGAGGCATTGACAGTTGTGATTCAGCACCTGTGTCTGAGCGGGAGG
AAGCACTGAAACAACACAAAACCTATCTCAAGAACTTGTTAACCTCCGGGGAGAGCTAGTCACTGCTTC
AACCACCTGTGAGAAATTAGAAAAGCCAGGAATGAGTTACAAACAGTGTATGAAGCATTCTCCAGCAG
CACCAGGCTGAAAAACAGAACGAGAGAATCGGCTTAAAGAGTTTTACACCAGGGAGTATGAAAAGCTTC
GGGACACTTACATTGAAGAAGCAGAGAAGTACAAAATGCAATTGCAAGAGCAGTTTGACAACTTAAATGC
TGCGCATGAAACCTCTAAGTTGGAATTTGAAGCTAGCCACTCAGAGAACTTGAATTGCTAAAGAAGGCC
TATGAAGCCTCCCTTTCAGAAATTAAGAAAGGCCATGAAATAGAAAAGAAATCGCTTGAAGATTTACTTT
CTGAGAAGCAGGAATCGCTAGAGAAGCAAATCAATGATCTGAAGAGTGAAAATGATGCTTAAATGAAAA
ATTGAAATCAGAAGAACAAAAAGAAGAGCAAGAGAAAAAGCAAATTTGAAAAATCCTCAGATCATGTAT
CTAGAACAGGAGTTAGAAAGCTGAAAGCTGTGTTAGAGATCAAGAATGAGAACTGCATCAACAGGACA
TCAAGTTAATGAAAATGGAGAACTGGTGACAACAACACAGCATTGGTTGACAAATTGAAGCGTTTCCA
GCAGGAGAATGAAGAATTGAAAGCTCGGATGGACAAGCACATGGCAATCTCAAGGAGCTTTCCACGGAG
CAGGCTGTTCTGCAAGAGTCGCTGGAGAAGGAGTCAAGAGTCAACAAGCGACTCTCTATGAAAAACGAGG
AGCTTCTGTGAAACTGCACAATGGGGACCTGTGTAGCCCAAGAGATCCCCACATCCTCCGCCATCCC
TTTGAGTCACCAAGGAATTCGGGCTCCTTCCCTAGCCCCAGCATTTCACCCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230037 representing NM_001166393
 Red=Cloning site Green=Tags(s)

MKTPPKGPSRKNLFTALNAVEKSRQKNPRSLCIQPQTAPDALPPEKTLELTQYKTKCENQSGFILQLKQL
 LACGNTKFEALTVVIQHLLSEREEALKQHKTLSQELVNLRGELVTASTTCEKLEKARNELQTVYEAFVQQ
 HQAEKTERENRLKEFYTREYEKLRDTYIEAEKYKMLQEQFDNLNAAHETSKLEIEASHSEKLELLKKA
 YEASLSEIKKGHEIEKKSLEDLLSEKQESLEKQINDLKSENDALNEKLKSEEQKRRAREKANLKNPQIMY
 LEQELESLKAVLEIKNEKLHQQDIKLMKMEKLVNNTALVDKLRKFQENEELKARMDKHMAISRQLSTE
 QAVLQESLEKESKVNKRLSMENEELLWKLHNGDLCSPKRSPTSSAIPLQSPRNSGSPSPSISPR

TRTRPLE - GFP Tag - V

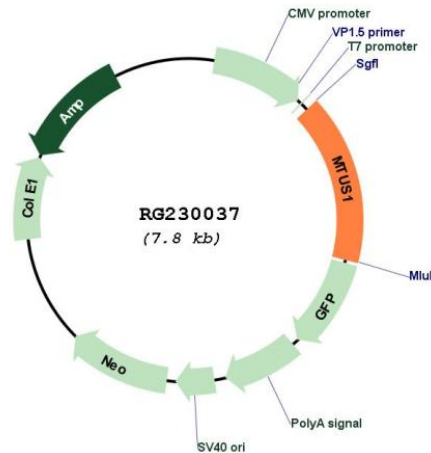
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001166393

ORF Size:	1245 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:	<ol style="list-style-type: none">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_001166393.1 , NP_001159865.1
RefSeq Size:	3667 bp
RefSeq ORF:	1248 bp
Locus ID:	57509
UniProt ID:	Q9ULD2
Cytogenetics:	8p22
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane
Gene Summary:	This gene encodes a protein which contains a C-terminal domain able to interact with the angiotension II (AT2) receptor and a large coiled-coil region allowing dimerization. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. One of the transcript variants has been shown to encode a mitochondrial protein that acts as a tumor suppressor and participates in AT2 signaling pathways. Other variants may encode nuclear or transmembrane proteins but it has not been determined whether they also participate in AT2 signaling pathways. [provided by RefSeq, Jul 2008]