

Product datasheet for **MR225197**

Mtus1 (NM_001005864) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mtus1 (NM_001005864) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| 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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ORF Nucleotide Sequence:

>MR225197 representing NM_001005864
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTATACCAGGAGGATTTTCGCAAGTGTACAGAACTGATATTTCTTCAACGATCTTTATCAATTCTA
 CACTCACACCCCGGCCGCTCAGAAAGGCAGTATGATGCTACCTTACTGGCACTGCTTGTGCGTGGGATC
 CTACAGCCTTTGTATAATTCCTTTGTTAGCCACGCTTACTAGGAAAAAGTGGTCATGCTGCCATCAAC
 AAATATGAAGAGAACTCCCAAACAAGCATTTGAGAATGGGTCAGGACCTTGTATCTGAAGCCTTTGG
 TACCCAGAGCTCACTCGCACTTGTCTCAAACTTCTCCAAAAGGTCCTTCAAGGAAGAGTCTGTTTACAGC
 TTTTAATTCAGTTGAAAAGGCGAGGAGGAGAAATCCAGGAGCCTATGCATCCAGACCCAGACAGCTCCA
 GATGTGCTGTCTCCGAGAGAACGCTTGAGTTGGCCCAATACAAGACAAAATGTGAAAGCCAAAGTGGAT
 TCATCCTGCACCTCAGACAGCTTCTTCCCGTGGTAACACCAAGTTTGAAGCGCTGACCGTTGTGATCCA
 GCACCTCTGTCTGAGCGGGAGGAGCACTGAAGCAACACAAAACCTCTCTCAAGAAGTGTGACGCTC
 CGGGGAGAGCTAGTTGCTGCTTCAAGCGCTGTGAGAAGCTAGAAAAGGCTAGGACTGACTTACAGACAG
 CGTATCAAGAATTTGTCCAGAACTAAACCAGCAGCATCAGACAGACCGGACGGAAGTGGAGAACCAGGCT
 GAAGGACTTATACACCGCAGAGTGTGAGAAGCTTCAAGCATTACATTGAGGAGGCAGAAAAATATAAA
 ACTCAACTGCAAGAGCAGTTTGACAACCTTAAACGCGCCCATGAGACCAAGCTTGAAGATTGAAGCTA
 GCCACTCGGAGAAGGTGGAATTGCTGAAGAAGCCTATGAAAACCTCCCTTTCAGAAATCAAGAAGAGCCA
 TGAGATGGAGAAGAAGTCACTGGAGGATCTGCTTAAAGCAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAG
 GATCTGAAGAGTGAAGACGATGCTTAAACGAAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAG
 AGAAGGCGAATTCAAAAACCTCAGGTCATGTATCTGGAGCAAGAAGTGAAGGCTGAAGGCTGTGTT
 AGAGATCAAGAATGAGAAGCTGCCACGACAGGACATGAAGCTAATGAAGATGGAAGGCTGGTGGACAAT
 AACACAGCATTGTTGACAAGCTGAAGCGATTCCAGCAGGAAAACGAGGAGTTAAAAGCTCGCATGGACA
 AACACATGGCAATTTCAAGGCAACTTCCACCGAGCAGGCCGCGCTGCAGGAGTCCCTTGAAGGAGTGC
 GAAGGTCAACAAGAGACTGTCCATGGAGAACGAGGAACTTCTGTGAAACTGCACAACGGAGACCTGTGC
 AGCCCCAAGAGATCCCCACCTCTCGGCCATCCCTTCCAGTCCCCAGGAATCTGGTTCCTTCTCCA
 GCCCCAGCATCTACCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225197 representing NM_001005864
 Red=Cloning site Green=Tags(s)

MTIPGGFRSCTETDISSTIFINSTLTPPAGSERQYDALLALLVVGYSYSLCIIPLLATLTRKKSGHAAIN
 KYEEKPPKQAFQNGSGPLYLKLPLVRAHSHLLKTSKPKGPSRKSLFTAFNSVEKGRQKNRSLCIQTQAP
 DVLSSERTLELAQYKTKCESQSGFILHLRQLLSRGNTKFEALTVVIQHLLSEREEALKQHKLSQELVSL
 RGELVAASSACEKLEKARTDLQAYQEFVQKLNQHQTDRTLENRLKDLTYAECEKLSIYIEEAEKYK
 TQLQEFDNLNAAHETTKLEIEASHSEKVELLKKTYETSLSEIKKSHMEKKSLEDLLNEKQESLEKQIN
 DLKSENDALNERLKSEEQQLSREKANSKNPQVMYLEQELESKAVLEIKNEKLHQQDMKLMKMEKLVN
 NTALVDKLRFFQENEELKARMDKHMAISRQLSTEQAALQESLEKESKVNKRLSMENEELLWKLHNGDLC
 SPKRSPTSSAIPFQSPRNSGFSFSPSISPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

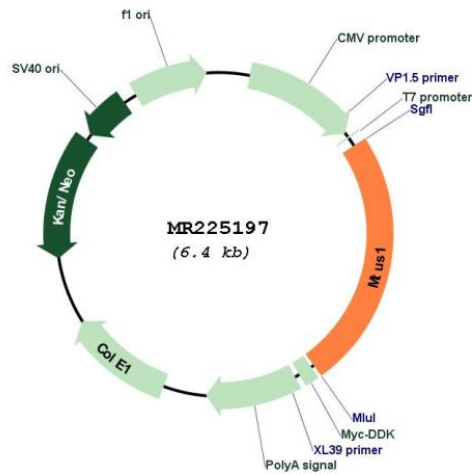
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001005864 |
| ORF Size: | 1560 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_001005864.3 , NP_001005864.1 |
| RefSeq Size: | 4158 bp |
| RefSeq ORF: | 1563 bp |
| Locus ID: | 102103 |
| UniProt ID: | Q5HZI1 |
| Cytogenetics: | 8 A4 |
| MW: | 59.6 kDa |
| 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] |