

Product datasheet for **MR224650**

Mtus1 (NM_001005865) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtus1 (NM_001005865) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtus1
Synonyms:	AI481402; ATBP135; Atip1; B430010I23Rik; B430305I03Rik; C85752; Cctsg1-440; MD44; mKIAA1288; MTSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224650 representing NM_001005865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTTGTCTCCCAAATTCTCCTTATCCACCATCCACGTCCGCCTAACCGCCAAAGGACTGCTTCGAA
 ACCTCCGGCTTCCTTCGGGGCTCAGAAAAACACTGTCAATTTCCACACAGTTGAAAAGGCAGGCAGAA
 GAATCCCAGGAGCCTATGCATCCAGACCCAGACAGCTCCAGATGTGCTGTCTCCGAGAGAACGCTTGAG
 TTGGCCAATACAAGACAAAATGTGAAAGCCAAAGTGGATTATCCTGCACCTCAGACAGCTTCTTTCC
 GTGGTAACACCAAGTTTGAAGCGCTGACCGTTGTGATCCAGCACCTCCTGTCTGAGCGGGAGGAAGCACT
 GAAGCAACACAAAACCTCTCTCAAGAATTGTCAGCCTCCGGGGAGAGCTAGTTGCTGCTTCAAGCGCC
 TGTGAGAACTAGAAAAGGCTAGGACTGACTTACAGACAGCGTATCAAGAATTTGTCAGAACTAAACC
 AGCAGCATCAGACAGACCGGACGGAAGTGGAGAACCGGCTGAAGGACTTATACCCGAGAGTGTGAGAA
 GCTTCAGAGCATTACATTGAGGAGGCAGAAAAATATAAACTCAACTGCAAGAGCAGTTTGACAACCTA
 AACGCCGCCATGAGACCACTAAGCTTGAGATTGAAGCTAGCCACTCGGAGAAGGTGGAATTGCTGAAGA
 AGACCTATGAAACCTCCCTTTCAGAAATCAAGAAGAGCCATGAGATGGAGAAGAAGTCACTGGAGGATCT
 GCTTAATGAGAAGCAGGAATCGCTGGAGAAACAAATCAATGATCTGAAGAGTGAAGACGATGCTTTAAAC
 GAAAGGTTGAAATCAGAGGAGCAAAAGCAACTGTCAAGAGAGAAGGCGAATTCAAAAACCTCAGGTCA
 TGTATCTGGAGCAAGAAGTAGAAAGCCTGAAGGCTGTGTTAGAGATCAAGAATGAGAAGCTGCACCAGCA
 GGACATGAAGCTAATGAAGATGGAAAAGCTGGTGGACAATAACACAGCATTGGTTGACAAGCTGAAGCGA
 TTCCAGCAGGAAAACGAGGAGTTAAAAGCTCGCATGGACAACACATGGCAATTTCAAGGCAACTTTCCA
 CCGAGCAGGCCCGCTGCAGGAGTCCCTTGAGAAGGAGTCAAGAGTCAACAAGAGACTGCCATGGAGAA
 CGAGGAACCTCTGTGAAACTGCACAACGGAGACCTGTGCGAGCCCAAGAGATCCCCACCTCCTCGGCC
 ATCCCTTTCAGTCCCCAGGAATTCTGGTTCTTCTCCAGCCCCAGCATCTCACCAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224650 representing NM_001005865
 Red=Cloning site Green=Tags(s)

MLLSPKFSLSLTIHVRLTAKLLRNLRLPSGLRKNTVIFHTVEKGRQKNPRSLCIQTQAPDVLSSERTLE
 LAQYKTKCESQSGFILHLRQLLSRGNTKFEALTVVIQHLLSEREEALKQHKLSQELVSLRGELVAASSA
 CEKLEKARTDLQTAYQEFVQKLNQHQHQTDRTELENRLKDLTYAECEKLQSIYIEEAEKYKTLQEQFDNL
 NAAHETTKLEIEASHSEKVELLKKTYETSLSEIKKSHMEKKSLEDLLNEKQESLEKQINDLKSENDALN
 ERLKSEEQQLSREKANSKNPQVMYLEQELESKAVLEIKNEKLHQQDMKLMKMEKLVNNTALVDKLR
 FQGENEELKARMDKHMAISRQLSTEQAALQESLEKESKVNKRLSMENEELLWKLHNGDLCSPKRSPTSSA
 IPFQSPRNSGFSFSSPISPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9030_e02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001005865

ORF Size: 1320 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: [NM_001005865.3](#), [NP_001005865.2](#)

RefSeq Size: 4153 bp

RefSeq ORF: 1323 bp

Locus ID: 102103

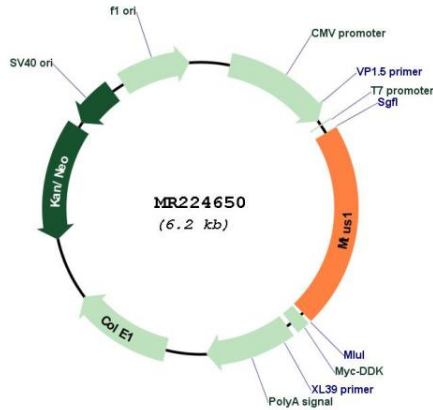
UniProt ID: [Q5HZI1](#)

Cytogenetics: 8 A4

MW: 51.2 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]

Product images:



Circular map for MR224650