

## Product datasheet for **MC219505**

### **Mtm1 (NM\_019926) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtm1 (NM_019926) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtm1
Synonyms:	AF073996; mKIAA4176; Mtm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219505 representing NM\_019926  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTCTGCATCAGCATCTAAGTATAATTCACACTCCTTGGAGAATGAATCCATTAAGAAAGTGTCTC  
 AAGATGGAGTCAGTCAGGATGTGAGTGAGACTGTCCCTCGGCTCCAGGGGAGTTACTAATTACTGAAAA  
 AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTT  
 TATTTAAGAAGTTTGGAAACGGATTCTGCTCTAATACTTGATGTTCTCTGGGTGTGATACAAGAATTG  
 AAAAAATGGGAGGCGCGACAAGTAGAGGAGAAAAATTCCTATGGTCTAGATATTACTTGTAAGATTGAG  
 AAACCTGAGGTTTGCATTGAAGCAAGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTTGTAACAT  
 GCCTTCTCTGGCACACAATCTGCCATTATTTGCATTTGTAATGAAGAGAAGTTAACGTGGATGGGT  
 GGACTGTTTATAATCCAGTTGAAGAATATAGAAGGCAGGGCTGCCCAATCACCATTGGAGGATAAGTTT  
 TATTAACAAGTGCTATGAGCTCTGTGAGACATACCCTGCTCTTTGGTGGTTCCTATCGGACCTCAGAT  
 GATGATCTTAGGAGGATCGCAACGTTTAGATCCCGAAATCGGCTTCTGTACTGTGCTGGATTACCCAG  
 AAAACAAAATGGTCATTATGCGCTGCAGTCAGCCTCTTGTGCGGTATGAGTGGTAAAAGAAAATAAAGATGA  
 CGAATAACCTGGATGTGATCAGGAAACTAACAAACAACTTCTAAGCTCATGTTTATGATGCACGA  
 CCCAGTGTAAATGCAGTCGCCAACCAAGGCAACAGGAGGAGGATATGAAAGTATGACGCATATCAAACT  
 CAGAACCTTCTCTTAGACATTCATAATTCATGTTATGCGAGAATCTTTAAAAAAGTGAAAGATAT  
 TGTTTATCCCAACATAGAAGAATCTCATTGGTTGCCAGTTTGGAGTCTACTCATTGGTTAGAACATATC  
 AAGCTTGTCTGACCGGTGCCATTCAAGTGGCAGACCAAGTGTCTTCAGGAAAGAGCTCGGTACTTGTGC  
 ACTGCAGTGACGGATGGGACAGGACCGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGACAGCTTCA  
 CAGAACTATTGAAGGCTTTGAGATATTGGTACAGAAAGAGTGGATAAGTTTTGGCCATAAATTTGCATCT  
 AGAATAGGTCATGGTGATAAAAACCATGCTGATGCTGATCGATCTCCTATTTTTCTTCAGTTTATTGACT  
 GTGTGTGGCAGATGTCGAAACAGTTCCCCACAGCTTTTGAGTTCAATGAAGGCTTTTTGATTACCGTTTT  
 GGATCATCTGTATAGCTGTGATTTGGTACTTTCTTATTCAACTGTGACTCGGCTCGAGAAAGACAGAAA  
 CTTACAGAAAGAACAGTTTCTCTATGGTCGCTAATTAACAGCAATAAAGACAAATTCAAAAACCCCTTCT  
 ATACAAAAGAAATCAATCGGTTTTGTATCCAGTTGCCAGCATGCGTCACTTGGAACTGTGGGTGAATTA  
 TTACATCCGATGGAATCCAGGGTCAAGCAGCAACAGCCCAACCCAGTGGAGCAGCGTTACATGGAGCTT  
 TTGGCCTTGCCTGACGATTATATAAAGAGGCTCGAGGAATTGCAGCTGGCCAACCCGCAAGCTTGCTG  
 ATGCCCCCGCTTCGACTCCAGTTCGTCACAGATGGTGCCCCATGTGCAGACGCACCTTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019926
- Insert Size:** 1812 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\\_019926.3](#), [NP\\_064310.2](#)

**RefSeq Size:** 3368 bp

**RefSeq ORF:** 1812 bp

**Locus ID:** 17772

**UniProt ID:** [Q9Z2C5](#)

**Cytogenetics:** X 36.55 cM

**Gene Summary:** Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides. Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome. Plays a role in vacuolar formation and morphology (By similarity). Regulates desmin intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning (PubMed:21135508). Required for skeletal muscle maintenance but not for myogenesis (PubMed:12391329). In skeletal muscles, stabilizes MTMR12 protein levels (PubMed:23818870).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 3 encode the same protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.