

Product datasheet for **MC219506**

Mtm1 (NM_001164191) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtm1 (NM_001164191) 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: >MC219506 representing NM_001164191
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCTGCATCAGCATCTAAGTATAATTCACACTCCTTGGAGAATGAATCCATTAAGAAAGTGTCTC
 AAGATGGAGTCAGTCAGGATGTGAGTGAGACTGTCCCTCGGCTCCAGGGGAGTTACTAATTACTGAAAA
 AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTACATCACAAATTATCGTCTT
 TATTTAAGAAGTTTGGAAACGGATTCTGCTCTAATACTTGATGTTCTCTGGGTGTGATCAAGAATTG
 AAAAAATGGGAGGCGCGACAAGTAGAGGAGAAAAATTCCTATGGTCTAGATATTACTTGTAAGATTGAG
 AAACCTGAGGTTTGCATTGAAGCAAGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTTGTAACAT
 GCCTTCTCTGGCACACAATCTGCCATTATTTGCATTTGTAATGAAGAGAAGTTAACGTGGATGGGT
 GGACTGTTTATAATCCAGTTGAAGAATATAGAAGGCAGGGCTGCCCAATCACCATTGGAGGATAAGTTT
 TATTAACAAGTGCTATGAGCTCTGTGAGACATACCCTGCTCTTTGGTGGTTCCTATCGGACCTCAGAT
 GATGATCTTAGGAGGATCGCAACGTTTAGATCCCGAAATCGGCTTCTGTACTGTGCTGGATTACCCAG
 AAAACAAAATGGTCATTATGCGCTGCAGTCAGCCTCTTGTGCGGTATGAGTGGTAAAAGAAAATAAAGATGA
 CGAGAAATACCTGGATGTGATCAGGAAACTAACAAACAACTTCTAAGCTCATGTTTATGATGCACGA
 CCCAGTGTAAATGCAGTCGCCAACCAAGGCAACAGGAGGAGGATATGAAAGTATGACGCATATCAAACT
 CAGAACCTTCTCTTAGACATTCATAATTCATGTTATGCGAGAATCTTTAAAAAAGTGAAAGATAT
 TGTTTATCCCAACATAGAAGAATCTCATTGGTTGCCAGTTTGGAGTCTACTCATTGGTTAGAACATATC
 AAGCTTGTCTGACCGGTGCCATTCAAGTGGCAGACCAAGTGTCTTCAGGAAAGAGCTCGGTACTTGTGC
 ACTGCAGTGACGGATGGGACAGGACCGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGACAGCTTCA
 CAGAACTATTGAAGGCTTTGAGATATTGGTACAGAAAGAGTGGATAAGTTTTGGCCATAAATTTGCATCT
 AGAATAGGTCATGGTGATAAAAACCATGCTGATGCTGATCGATCTCCTATTTTTCTTCAGTTTATTGACT
 GTGTGTGGCAGATGTCGAAACAGTTCCCCACAGCTTTTGAGTTCAATGAAGGCTTTTTGATTACCGTTTT
 GGATCATCTGTATAGCTGTGATTTGGTACTTTCTATTCAACTGTGACTCGGCTCGAGAAAGACAGAAA
 CTTACAGAAAGAACAGTTTCTCTATGGTCGCTAATTAACAGCAATAAAGACAAATTCAAAAACCCCTTCT
 ATACAAAAGAAATCAATCGGTTTTGTATCCAGTTGCCAGCATGCGTCACTTGAACTGTGGGTGAATTA
 TTACATCCGATGGAATCCAGGGTCAAGCAGCAACAGCCCAACCCAGTGGAGCAGCGTTACATGGAGCTT
 TTGGCCTTGCCTGACGATTATATAAAGAGGCTCGAGGAATTGCAGCTGGCCAACCCGCAAGCTTGCTG
 ATGCCCCCGCTTCGACTCCAGTTCGTCACAGATGGTGCCCCATGTGCAGACGCACCTTC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001164191
- 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:	<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_001164191.1 , NP_001157663.1
RefSeq Size:	3379 bp
RefSeq ORF:	1812 bp
Locus ID:	17772
UniProt ID:	Q9Z2C5
Cytogenetics:	X 36.55 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 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.</p>