

Product datasheet for **RN212459**

Mtm1 (NM_001013047) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtm1 (NM_001013047) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtm1
Synonyms:	MGC108964
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212459 representing NM_001013047
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCTCGTCAGCCTCTGACTGTGATGCACACCCCGTGGAGCGTGAGTCCATGAGGAAGGTGTCTC
 AAGATGGAGTCCGTCAGGATATGAGCAAGAGTGGGCTCGCCTCCAGGGGAATCAGCCATCACTGACAA
 GGAAGTCATCTACATTTGTCCCTTCAGCGGCCCGTAAAGGGACGACTTTACATACCAATTACCGTCTC
 TACCTGAGAAGTCTGGAGACGGACTTGGCTCCGATTCTTGACGTCCCCCTAGGCGTGATATCGAGAATAG
 AGAAAAAGGGAGGCGTGACGAGTTCGAGGAGAGAATTCCTACGGCCTTGATATCACCTGCAAGACCTGAG
 GAACCTGAGGTTTCGCTCTGAAGCAGGAAGGACACAGCAGGAGGGACATCTTTGACGTCTCACCAGACAC
 GCCTTCCCCTGGCTTACAACCTGCCGTTGTTTGCATTCTGTAACGAGGAGAAGTTTAAAGTGGATGGAT
 GGGCGATTTACAACCCGGTTGAAGAGTACAGAAGGCAGGGCCTCCCGATCGCCATTGGCGGATAAGTTT
 CGTCAATCAGCGCTACGAGCTCTGTGACACCTACCCTGCCCTCCTGGTCTGCCCTACCGTGGTCCGAT
 GATGACCTCAGAAGAGTTGCAACCTTTAGGTCCAGAAACCGGATTCCTCGTGTCTGGATCCACCCAG
 AGAACAGGGCGCGCATCATGCGGTGCAGTCAGCCTCTGGTTGGTGTGGGCGGGAAGAGAAGCAGAGATGA
 TGAGAGATACCTGGACATCATCCGGAAACCAATAAGCAGACCTCGAAGCTCACAATTTACGATGCGCGG
 CCCGGCGTCAATGCGGTGGCCAACAAGGCAACGGGAGGCGGCTATGAGGGCGAGGACCGTACCCACAG
 CGGAGCTCTCCTTCTGGACATCCACAACATCCACGTGATGCGGGAATCCTTACGGAGGGTGAGGGACAT
 CGTGTACCCCCACGTGGAGGAAGCTCATTGGCTGTCCAGCTTGGAGTCCACCCATTGGTTAGAGCACATC
 AAGCTTCTCCTCACTGGTGCCATCCGGGTCGAGACAAGGTGGCATCGGGGCTGAGTTTCACTCCTGTC
 ACTGCAGTGACGGCTGGGACCGGACGGCTCAACTGACCACGCTGGCCATGCTGATGCTCGATGGCTTCTA
 CCGCAGCATCGAGGGCTTTGAGATCCTGGTGCAGAAAGGAGTGGATCAGCTTCGGACACAAGTTTTTCATCT
 AGAATTGGCCACGGTGACAAGAACCACGCGGATGCCGACCGCTCCCGATTTTCTCGAGTTCATCGACT
 GCGTGTGGCAGATGACGAAGCAGTTCCCCACAGCTTTCGAGTTCAACGAGTGCTTCTGGTTGCCATCTT
 GGATCACCTGTACAGCTGCCGGTTCGGGACTTCTTACTAAACTGTGAGGCGGCACGGGAGAGACAGAGA
 CTCGCAGAAAGGACGGTGTCTGTGTGGTCCCTGATCAACAGCAACAAGACGAATTCACAAACCCGTTCT
 ACGCAAGGGAGAGCAACCGGTGATCTACCCGGTACCAGCGTGCACCTGGAAGTGTGGGTGAATTA
 CTACATCCGGTGAACCCAGGATCCGGCAGCAGCAGCCACCCCATG**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001013047

Insert Size: 1662 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:	<u>NM_001013047.1, NP_001013065.1</u>
RefSeq Size:	2536 bp
RefSeq ORF:	1662 bp
Locus ID:	288762
UniProt ID:	<u>Q6AXQ4</u>
Cytogenetics:	6q12
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. Regulates desmin intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning. Required for skeletal muscle maintenance but not for myogenesis. In skeletal muscles, stabilizes MTMR12 protein levels.[UniProtKB/Swiss-Prot Function]