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Product datasheet for MC219168

Mtm1 (NM_001164192) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtm1 (NM_001164192) 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:

>MC219168 representing NM_001164192
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCTGCATCAGCATCTAAGTATAATTCACACTCCTTGGAGAATGAATCCATTAAGAAAGTGTCTC
AAGATGGAGTCAGTCAGGATGTGAGTGAGACTGTCCCTCGGCTCCCAGGGGAGTTACTAATTACTGAAAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTT
TATTTAAGAAGTTTGGAAACGGATTCTGCTCTAATACTTGATGTTCCTCTGGGTGTGATATCAAGAATTG
AAAAAATGGGAGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAGATATTACTTGTAAAGATTTGAG
AAACCTGAGGTTTGCATTGAAGCAAGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTTGTAAAACAT
GCCTTTCCTCTGGCACACAATCTGCCATTATTTGCATTTGTAAATGAAGAGAAGTTTAACGTGGATGGGT
GGACTGTTTATAATCCAGTTGAAGAATATAGAAGGCAGGGCCTGCCCAATCACCATTGGAGGATAAGTTT
TATTAACAAGTGCTATGAGCTCTGTGAGACATACCCTGCTCTTTTGGTGGTTCCCTATCGGACCTCAGAT
GATGATCTTAGGAGGATCGCAACGTTTAGATCCCGAAATCGGCTTCCTGTACTGTCGTGGATTCACCCAG
AAAACAAAATGGTCATTATGCGCTGCAGTCAGCCTCTTGTCGGTATGAGTGGTAAAAGAAATAAAGATGA
CGAGAAATACCTGGATGTGATCAGGGAAACTAACAAACAAACTTCTAAGCTCATGATTTATGATGCACGA
CCCAGTGTAAATGCAGTCGCCAACAAGGCAACAGGAGGAGGATATGAAAGTGATGACGCATATCAAAACT
CAGAACTTTCCTTCTTAGACATTCATAATATTCATGTTATGCGAGAATCTTTAAAAAAAGTGAAAGATAT
TGTTTATCCCAACATAGAAGAATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTAGAACATATC
AAGCTTGTTCTGACCGGTGCCATTCAAGTGGCAGACCAAGTGTCTTCAGGAAAGAGCTCGGTACTTGTGC
ACTGCAGTGACGGATGGGACAGGACCGCTCAGCTGACATCCTTGGCCATGCTGATGTTGGACAGCTTCTA
CAGAACTATTGAAGGCTTTGAGATATTGGTACAGAAAGAGTGGATAAGTTTTGGCCATAAATTTGCATCT
TTCCCCACAGCTTTTGAGTTCAATGAAGGCTTTTTGATTACCGTTTTGGATCATCTGTATAGCTGTCGAT
TTGGTACTTTCTTATTCAACTGTGACTCGGCTCGAGAAAGACAGAAACTTACAGAAAGAACAGTTTCTCT
ATGGTCGCTAATTAACAGCAATAAAGACAAATTCAAAAACCCCTTCTATACAAAAGAAATCAATCGGGTT
TTGTATCCAGTTGCCAGCATGCGTCACTTGGAACTGTGGGTGAATTATTACATCCGATGGAATCCCAGGG
TCAAGCAGCAACAGCCCAACCCAGTGGAGCAGCGTTACATGGAGCTTTTGGCCTTGCGTGACGATTATAT
AAAGAGGCTCGAGGAATTGCAGCTGGCCAACTCCGCCAAGCTTGCTGATGCCCCCGCTTCGACTTCCAGT
TCGTCACAGATGGTGCCCCATGTGCAGACGCACTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001164192

Insert Size: 1719 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_001164192.1, NP_001157664.1
RefSeq Size:	3286 bp
RefSeq ORF:	1719 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 (4) differs in the 5' UTR and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to 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.