

Product datasheet for **RN201213**

Mtmr6 (NM_001107268) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr6 (NM_001107268) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtmr6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN201213 representing NM_001107268 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGCACATCCGGACAACCAAGGTTGAACAAGTAAAGTTACTTGACCGGTTTAGTACCAACAACAAGT
CACTGACAGGAACACTGTATCTTACGGCCACACACCTATTATTTATTGATGCTCATCAAAAAGAAACCTG
GATACTACATCACCATATTGCCTCCGTGGAGAACTTGCTCTGACCACTCTGGATGCCACTCGTGATT
CAGTGCAAGAACTTCAGGATTGTGCATTTTCATTGTTCCAGGGAAAGAGATTGCCATGATTTTATAACT
CTCTACTGCAACTATCAAAAAGCAAAATATGAAGATCTGTATGCATTCTTTACAACCCCAAGCAAAA
TGACACTGAGCGGCTGAACGGTGGCAGCTCATTGACCTTGCTGCAGAGTACGAGAGGATGGGAGTGCCC
AACGCAAACTGGCAACTGTCCGATGCCAACCGAGAGTACAAGTCTGTGAGACTTATCCAGAGAGCTGT
ATGTTCTCGGACAGCTAGCCGGCCAGTGATCGTCGGCAGTTCCAACCTCCGGAGCAAGGGCAGACTTCC
GGTCTGTCTACTGCCAGCAGGGCACTGAGGCTGCCATTTGTCGATGCAGTCAGCCATTGTCAGGCTTC
AGTGCCAGGTGCCTAGAGGATGAGCATTGCTTCAAGCCATTAGTAAAGCCAACCCAGGAAACCGCTACA
TGTATGTTGTGGATACCGGCCAAGCTCAATGCAATGGCTAACAGAGCAGCTGGAAAAGGTTATGAAA
TGAAGACAATATTCTAATATTAGATTTTCAGTTTGTGGAAATAGAAAATATTCATGTCATGAGATCCAGC
CTTCAGAAATTAAGTGAATGGCAGCAAGGGCTTTCTGTCAACGATTTCTACTCTGGTTTGGAGA
GTTCAGGATGGCTTCGTCATATCAAGGCTGTTTTGGATGCTGCAATCTTCTTAGCCAAAGTAACTATCTC
TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001107268
Insert Size:	984 bp



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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_001107268.1</u> , <u>NP_001100738.1</u>
RefSeq Size:	3779 bp
RefSeq ORF:	984 bp
Locus ID:	305935
Cytogenetics:	15p12
Gene Summary:	Phosphatase that acts on lipids with a phosphoinositol headgroup. Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 3,5-bisphosphate. Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) but also to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), and phosphatidylinositol 5-phosphate (PtdIns(5)P), phosphatidic acid and phosphatidylserine (By similarity). Negatively regulates ER-Golgi protein transport (PubMed:23188820). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles. Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4(+) T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate. Negatively regulates proliferation of reactivated CD4(+) T-cells. In complex with MTMR9, negatively regulates DNA damage-induced apoptosis. The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels (By similarity).[UniProtKB/Swiss-Prot Function]