

Product datasheet for **RR201213**

Mtmr6 (NM_001107268) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr6 (NM_001107268) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtmr6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201213 representing NM_001107268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGCACATCCGGACAACCAAGGTTGAACAAGTAAAGTTACTTGACCGGTTTAGTACCAACAACAAGT
CACTGACAGGAACACTGTATCTTACGGCCACACACCTATTATTTATTGATGCTCATCAAAAAGAAACCTG
GATACTACATCACCATATTGCCCTCGTGGAGAACTTGCTGACCACTTCTGGATGCCACTCGTGATT
CAGTGCAAGAACTTCAGGATTGTGCATTTTCATTGTTCCAGGAAAGAGATTGCCATGATTTTATAACT
CTCTACTGCAACTATCAAAAAGCAAAATATGAAGATCTGTATGCATTCTTTACAACCCCAAGCAAAA
TGACACTGAGCGGCTGAACGGTGGCAGCTCATTGACCTTGCTGCAGAGTACGAGAGGATGGGAGTGCC
AACGCAAACTGGCAACTGCCGATGCCAACGAGAGTACAAGGTCTGTGAGACTTATCCAGAGAGCTGT
ATGTTCTCGGACAGCTAGCCGGCCAGTGATCGTCGGCAGTTCCAACCTCCGAGCAAGGGCAGACTTCC
GGTCTGTCTACTGCCAGCAGGGCACTGAGGCTGCCATTTGTCGATGCAGTCAGCCATTGTCAGGCTTC
AGTGCCAGGTGCCTAGAGGATGAGCATTGCTTCAAGCCATTAGTAAAGCCAACCCAGGAAACCGCTACA
TGTATGTTGTGGATACCAGGCCAAGCTCAATGCAATGGCTAACAGAGCAGCTGGAAAAGGTTATGAAA
TGAAGACAATCTAATATTAGATTTAGTTTGGTGAATAGAAAATATTCATGTCATGAGATCCAGC
CTTCAGAAATTAAGTGAATGGCAGCAAGGGCTTTCTGTCAACGATTTCTACTCTGGTTTGGAGA
GTTCAGGATGGCTTCGTCATATCAAGGCTGTTTTGGATGCTGCAATCTTCTTAGCCAAAGTAACTATCTC
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201213 representing NM_001107268
 Red=Cloning site Green=Tags(s)

MEHIRTTKVEQVKLLDRFSTNNKSLTGTLYLTATHLLFIDAHQKETWILHHHIASVEKLALTTSGCPLVI
 QCKNFRIVHFIVPRERDCHDIYNSLLQLSKQAKYEDLYAFSYNPKQNDTERLNGWQLIDLAAEYERMGVP
 NANWQLSDANREYKVCETYPREL YVPRTASRPVIVGSSNFRSKGRLPVLSYCQQGTEAAICRCSQPLSGF
 SARCLEDEHLLQAI SKANPGNRYMYVVDTRPKLNAMANRAAGKYENEDNYSNIRFQFVGIENIHVMRSS
 LQKLLVENSGKLSVNDFYSGLESSGWL RHIAKAVLDAAI FLAKVTIS

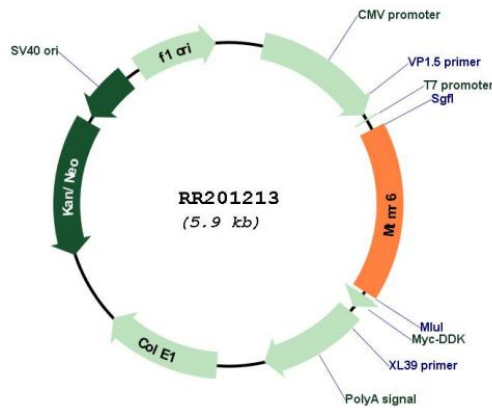
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107268

ORF Size:	981 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001107268.1 , NP_001100738.1
RefSeq Size:	3779 bp
RefSeq ORF:	984 bp
Locus ID:	305935
Cytogenetics:	15p12
MW:	37.2 kDa
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]