

Product datasheet for **MC203249**

Mtmr9 (NM_177594) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr9 (NM_177594) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtmr9
Synonyms:	9430075G12Rik; AA516943; AF073881; LIP-STYX; mMTMH3; MTMR8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC046275
 CCCTGGCTGCTCGGGCTCGGATGCTGCTGCCCCGACGCCGGGTCCGTCTCCTCCGACGCCGCCCGTTCAG
 ACGCCGGTGGCAGCGGGGAGTGCAGGGCCCTGGCGGGAAGCCTTCTCTGCGACCGAGTCCCAGGCCAGTGGT
 GCGGAAGAGACTTGGAGAAGCGGCCAGGGCGGTGCCCGCAGGCCCTGGCGCACCCGCCAGCCGGGGCGG
 GGCTCGACCTCCCGGGCCCGCCAGCCGGGGTCCGTCCGGGTCTGCGGATTAACCGCCGGGCACCTGCG
 GGACTGGGCTCCCGCCCTAGGCTGCGCCAATATGGAGTTTGGGAGCTGATTAACCCACCGGGTA
 GACAATGTGGTGTGCACCGGCCTTTCTACACCGCCGTGGAAGGGACCCCTGTGTCTGACAGGCCACCACC
 TGATCCTGTCTTCCCGGCAGACAACACGGAGGAGCTCTGGCTCCTCATTCAAATATCGACGCCATCGA
 CAAACGATTTGTGGGCTCTCTGGGTACCATCATATAAAATGTAAGATTTCCGAATCATTCAAGTTGGAT
 ATTCTGGAATGGAGGAGTGTAAATATAGCCAGTTCATTGAGGCATTGTCCACTCTGGACTCGGTCA
 CCCTGATGTACCCTTTCTTACCGACCCATGTTGAAGTGAAGATGGCTGGCATTCTTCTCTCC
 TGAGCAAGAAATTTGAGTTCTACTTCTGCTACCAGTGAATGGAGACTGAGCTATATCAATAAGGACTTT
 TCTATCTGTCTTCTACCCACCAACTGCTATTGTGCCAAGTCCGTGATGACGAAGCACTTCGGAAGG
 TAGCAGCCTTCCGACATGGGGGGCGCTTCCAGTCTGAGCTATTACCATAAAAAGAAATGGCATGGTGAT
 TATGCGAAGTGGTCAAGCCCTGACCGGCACAAACGGGAGGAGGTGCAAGGAAGACGAGAAGCTGATAAAT
 GCCACCCTCAGGGCAGGAAAGCGTGGCTACCTATTGACACCAGATCCCTAAATGTGGCCAGCAAGCTA
 GAGCCAAAGGAGGTGGCTTTGAACAGGAGGCTCATTATCCCCAGTGGAGGCGGATTCACAAGTCCATTGA
 GAGATACCATGTTCTTACAGGAGAGCCTAACTCAAACCTCGTGAAGCATGTAATGAACAAACCACAAATG
 GACCGGTGGCTCGGCAAGTTGGAGGCCTCCAATTGGCTGACACACATCAAGGAGATTCTGACCACCGCCCT
 GCCTGGCGGCCAGTGCATTGACAGGGAAGGTGCATCAGTGTGATTTCATGGGACAGAAGGAACTGATTC
 CACTGCAGGTGACTTCTTGGCCAGATCATCTGGAACCAAGAAGCAGGACCATCCGAGGCTTTGAG
 GCCCTGATAGAGAGGGAGTGGCTGCAGGCTGGTCAACCAATTCCAACAGCGCTGTGCACAGTCAGCCTATT
 GCAGCAGCAAGCAGAAGTGGGAGGCCCGCTGTTCTTCTTCTTCTGACTGCGTGTGGCAGATCCCTCG
 GCAGTTCCCTTGCTCCTTCGAGTTTAAATGAGCATTCTTCTCATCATGCTCTTTGAGCATGCTTATGCCTCA
 CAGTTCGGGACATTCTGGGCAACAATGAAAGTGAAGATGTAAGTTGAAGCTACAACAGAAAACAATGT
 CTTTGTGGTTCATGGGTCAATCGGCCCGCGAGCTGAGTAAAGTTCACCAATCCACTCTTTGAGCCAAACA
 CCTGGTCACTGGCCTTCTGTGGCGCCACAGAGTCTTACGCTGTGGGAAGGAATCTTCTTACGCTGGAGC
 AGATCCTCAAGTATCTGGATGAAGCATATGAGGAAATGGTTAACATCATTGAATATAACAAGGAGTTAC
 AAGCCAAGGTCAATGCTGAGAAAGCAGTTGGCTGAATTGGAACAGAGGATGGGCTATGAGAGAGTCC
 TTGAAAGATCGCCTACCTGTCTGAGGACCTGTCTAGTCTGAGTCTCTCCCTCTGTTTGCCTTCA
 ATTCATGTTACAGTAGCCTTGAACCTGGCTGTAGGTGCGGAATCCCTGTAATGTAATGGCCTTCTAAGC
 ACTGCAAGGTGGCAGTCACTCACAGATATGGCCTGTTAGGCCCTCCACTTAATGAGCAGGTGGTGTCTGC
 ACCTCACTACATATATGACACCTATGCCCTATGCTGTTCCCATCTCTAGTTTCTCACCAGTGGTCCAGA
 CTAGTTAAGAATCCATCTACAACATGGGCCAGGCTATTTGCAATCGAGTATAGAGGTGTTTCTTTTTTT
 AATGGAATAAATGGGAAGCCACAATTGTATGTTTAAACATGTCATCCTGCCCTATCCTCCACTCCCAGT
 TATAAAAAGACCATTCTTTTTTAAAAACAAA AAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_177594

Insert Size: 1638 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: [BC046275](#), [AAH46275](#)

RefSeq Size: 2457 bp

RefSeq ORF: 1638 bp

Locus ID: 210376

UniProt ID: [Q9Z2D0](#)

Cytogenetics: 14 D1

Gene Summary: Acts as an adapter for myotubularin-related phosphatases (PubMed:12890864). Increases lipid phosphatase MTMR6 catalytic activity, specifically towards phosphatidylinositol 3,5-bisphosphate, and MTMR6 binding affinity for phosphorylated phosphatidylinositols (By similarity). Positively regulates lipid phosphatase MTMR7 catalytic activity (PubMed:12890864). The formation of the MTMR6-MTMR9 complex, stabilizes both MTMR6 and MTMR9 protein levels (By similarity). Plays a role in the late stages of macropinocytosis possibly by regulating MTMR6-mediated dephosphorylation of phosphatidylinositol 3-phosphate in membrane ruffles (By similarity). Negatively regulates DNA damage-induced apoptosis, in part via its association with MTMR6 (By similarity). Does not bind mono-, di- and tri-phosphorylated phosphatidylinositols, phosphatidic acid and phosphatidylserine (By similarity).[UniProtKB/Swiss-Prot Function]