

## Recombinant Human MTMR6 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MTMR6-807H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | MTMR6 MS Standard C13 and N15-labeled recombinant protein (NP_004676) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Phosphatase that acts on lipids with a phosphoinositol headgroup. Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,5-bisphosphate (Probable). Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) but also to phosphatidylinositol 3-phosphate (PtdIns3P), phosphatidylinositol 4-phosphate (PtdIns4P), and phosphatidylinositol 5-phosphate (PtdIns5P), phosphatidic acid and phosphatidylserine. Negatively regulates ER-Golgi protein transport. 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. |
| <b>Molecular Mass</b>   | 71.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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**AA Sequence**

MEHIRTTKVEQVKLLDRFSTSNKSLTGTLTLTATHLLFIDSHQKETWILHHHIASVEKL  
 ALTTSGCPLVIQCKNFRTVHFIVPRERDCHDIYNSLLQLSKQAKYEDLYAFSYNPKQN  
 DSERLQGWQLIDLAEYKRMGVPNSHWQLSDANRDYKICETYPRELYVPRIASKPII  
 VGSSKFRSKGRFPVLSYYHQDKEAAICRCSQPLSGFSARCLEDEHLLQAISKANPVN  
 RYMYVMDTRPKLNAMANRAAGKGYENEDNYSNIRFQFVGIENIHVMRSSLQKLLEV  
 NGTKGLSVNDFYSGLESSGWLRIKAVMDAAVFLAKAITVENASVLVHCSDGWDRT  
 SQVCSLGSLLLDSSYYRTIKGFMVLEIKDWISFGHKFSERCGQLDGDPEVSPVFTQF  
 LECVWHLTEQFPQAFEFSEAFLLQIHEHIHSCQFGNFLGNCQKEREELKLKEKTYSL  
 WPFLLDQKKYLNPLYSSSHRFTVLEPNTVSFNFKFWRNMYHQFDRTLHPRQSVF  
 NIIMNMNEQNKQLEKDIKDLESKIKQRKNKQTDGILTKELLHSVHPESP NLKTS LCFKE  
 QTLLPVNDALRTIEGSSPADNRYSEYAEFSKSEPAVVSLEYGVARMTCTRTRPLEQ  
 KLISEEDLAANDILDYKDDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage**

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration**

50 µg/mL as determined by BCA

**Storage Buffer**

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

**GENE INFORMATION**
**Gene Name**

MTMR6 myotubularin related protein 6 [ Homo sapiens (human) ]

**Official Symbol**

MTMR6

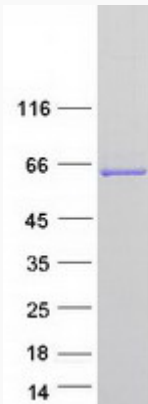
**Synonyms**

MTMR6; myotubularin related protein 6; myotubularin-related protein 6;

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|                |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 9107                                                                                |
| mRNA Refseq    | NM_004685                                                                           |
| Protein Refseq | NP_004676                                                                           |
| MIM            | 603561                                                                              |
| UniProt ID     | Q9Y217                                                                              |
| SDS-PAGE       |  |