

Product datasheet for **TP509453**

Mtmt6 (NM_144843) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse myotubularin related protein 6 (Mtmt6), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209453 protein sequence Red =Cloning site Green =Tags(s)

MEHIRTTKVEQVKLLDRFSTNNKSLTGTLYLTATHLLFIDAQQKETWILHHHIASVEKLALTTSGCPLVI
QCKNFRIVHFIVPRERDCHDIYNLLQLSKQAKYEDLYAFSYNPKQNDTERRNGWQLIDLAAEYERMGVP
NANWQLSDANREYKVCETYPRELYVPRTASRPVIVGSSNFRSKGRPLVLSYCRQGTEAAICRCSQPLSGF
SARCLEDEHLLQAISKANPGNRYMYVVDTRPKLNAIANRAAGKGYENEDNYSNIRFQFVGIENIHVMRSS
LQKLLLEVNGSKGLSVNDFYSGLESSGWLRIKAVLDAAIFLAKAIVVENASVLVHCSDGWDRTSQVCSLG
SLLLDSSYRTMKGFVMLIEKDWISFGHKFSERCGLDGDPREVSPVFTQFLECVWHLTQQFPQAFEFNEA
FLLQIHEHIHSCQFGNFLGNCQKEREELRLKEKTYSLWPFLLDDKKKYLNPYSSKSQRLTVLEPNTASF
NFKFWRNMYHQFDRTLHPRQSVLSIIMNMNEQSKQLEEDIKDLEAKIKQCKNGILTCELLHAVHPESPAL
KTSLLCKEPLLVKDTLRAIEGSSPADNRYCDYAEFEFSKSEPTVVSLEYGVARMTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	70.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online »](#)

RefSeq:	NP_659092
Locus ID:	219135
UniProt ID:	Q8VE11
RefSeq Size:	3845
Cytogenetics:	14 D1
RefSeq ORF:	1854
Synonyms:	4022440C11Rik; AI428804; AU041072

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 (By similarity). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:24591580). 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]