

## Product datasheet for **TP300809M**

### MTMR14 (NM\_022485) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human myotubularin related protein 14 (MTMR14), transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200809 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAGARAAAAAASAGSSASSGNQPPQELGLGELLEEFSTQYRAKDGSGTGGSKVERIEKRCLELFGRDYC  
FSVIPNTNGDICGHYPRHIVFLEYESSEKEKDTFESTVQVSKLQDLIHRSKMARCRGRFVCPVILFKGKH  
ICRSATLAGWGELYGRSGYNYFFSGGADDAWADVEDVTEEDCALRSGDTHLFDKVRGYDIKLLRYSVKY  
ICDLMVENKKVFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFNWKQDYVDAP  
LSIPDFLTHSLNIDWSQYQCWDLVQQTQNYLKLLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRSLWA  
DGLIHTSLKPTTEILYLTVAYDWFLFGHMLVDRLSKGEEIFFCFNFLKHITSEEFSAKTRRKSLPARD  
GGFTLEDICMLRRKDRGSTTSLGSDFLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQ  
EVRSAFLAAYSSTVGLRAVAPSPSGAIGLLEQFARGVGLRSISSNAL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

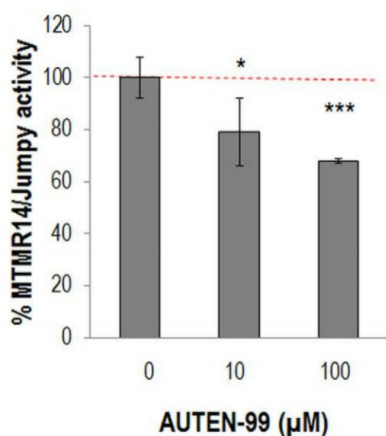
Tag:	C-Myc/DDK
Predicted MW:	59.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Enzyme activity (PMID: <a href="#">26312549</a> ) Enzyme activity (PMID: <a href="#">28205624</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



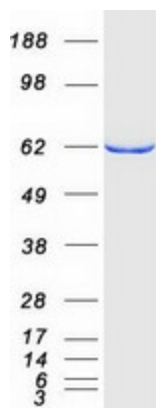
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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_071930</a>
Locus ID:	64419
UniProt ID:	<a href="#">Q8NCE2</a>
RefSeq Size:	2200
Cytogenetics:	3p25.3
RefSeq ORF:	1614
Synonyms:	C3orf29
Summary:	This gene encodes a myotubularin-related protein. The encoded protein is a phosphoinositide phosphatase that specifically dephosphorylates phosphatidylinositol 3,5-biphosphate and phosphatidylinositol 3-phosphate. Mutations in this gene are correlated with autosomal dominant centronuclear myopathy. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 18.[provided by RefSeq, Apr 2010]
Protein Families:	Druggable Genome, Phosphatase, Secreted Protein

### Product images:



AUTEN-99 inhibits the phosphatase activity of MTMR14 (OriGene [TP300809]) in a concentration-dependent manner. The red dashed line indicates average MTMR14/jumpy activity in the absence of AUTEN-99. \* P < 0.05; \*\*\* P < 0.001. Figure cited from Sci Rep, PMID: 28205624



Coomassie blue staining of purified MTMR14 protein (Cat# [TP300809]). The protein was produced from HEK293T cells transfected with MTMR14 cDNA clone (Cat# [RC200809]) using MegaTran 2.0 (Cat# [TT210002]).