

## Product datasheet for **TP300093M**

### **Mps1 (TTK) (NM\_003318) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human TTK protein kinase (TTK), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC200093 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MESEDLGRELTI DSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMANNPEDWLSLLL  
KLEKNSVPLSDALLNKLIGRYSQAIEALPPDKYGQNESFARIQVRFELKAIQEPDDARDYFQMARANCK  
KFAFVHISFAQFELSQGNVKKSKQLLQKAVERGAVPLEMLEIALRNLNLQKKQLLSEEEKKNLSASTVLT  
AQESFSGSLGHLQNRNNSCDSRGQTTKARFLYGENMPPQDAEIGYRNSLRQTNKTKQSCPFGRVPVNLN  
SPDCDVKTDSDVWPCFMKRQTSRSECRDLVVPGSKPSGNDSCELRNLSVQNSHFKEPLVSDEKSSSELI  
TDSITLKNKTESSLLAKLEETKEYQEPEVPESNQKQWQSKRKSECINQNPAASSNHWQIPELARKVNTAQ  
KHTTFEQPVFSVSKQSPPISTSKWFDPKSICKTPSSNTLDDYMSCFRTPVVKNDFFPACQLSTPYGQPAC  
FQQQQHQILATPLQNLQVLASSANECISVKGRIYSILKQIGSGGSSKVFQVLNEKKQIYAIFYVNLLEEA  
DNQTLDSYRNEIAYLNKLQHQHSDKIIRLYDYEITDQYIYMVMCEGNIDLNSWLKKKSIDPWERKSYWKN  
MLEAVHTIHQHGIVHSDLKPANFLIVDGMLKLIDFGIANQMOPDTSVVKDSQVGTVNYMPPEAIKDMSS  
SRENGKSKSPKSDVWSLGCILYMTYGTPTFQIINQISKLHAIIDPNHEIEFPDIPEKDLQDVLKC  
CLKRDPKQRISIPPELLAHPYVQIQTHPVNQMAKGTTEEMKYVLGQLVGLNSPNSILKAAKTLYEHYSGGE  
SHNSSSSKTFEKKRGKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

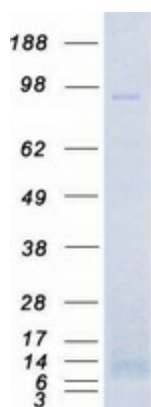
**Tag:** C-Myc/DDK  
**Predicted MW:** 96.9 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003309</a>
<b>Locus ID:</b>	7272
<b>UniProt ID:</b>	<a href="#">P33981</a>
<b>RefSeq Size:</b>	3010
<b>Cytogenetics:</b>	6q14.1
<b>RefSeq ORF:</b>	2571
<b>Synonyms:</b>	CT96; ESK; MPH1; MPS1; MPS1L1; PYT
<b>Summary:</b>	This gene encodes a dual specificity protein kinase with the ability to phosphorylate tyrosine, serine and threonine. Associated with cell proliferation, this protein is essential for chromosome alignment at the centromere during mitosis and is required for centrosome duplication. It has been found to be a critical mitotic checkpoint protein for accurate segregation of chromosomes during mitosis. Tumorigenesis may occur when this protein fails to degrade and produces excess centrosomes resulting in aberrant mitotic spindles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Cell cycle, Oocyte meiosis, TGF-beta signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway

### Product images:



Coomassie blue staining of purified TTK protein (Cat# [TP300093]). The protein was produced from HEK293T cells transfected with TTK cDNA clone (Cat# [RC200093]) using MegaTran 2.0 (Cat# [TT210002]).