

Product datasheet for **TP300093**

Mps1 (TTK) (NM_003318) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human TTK protein kinase (TTK), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC200093 Blue=ORF Red=Cloning site Green=Tag(s)

MESEDLSGRELTIDSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMANNPEDWLSLL
LKLEKNSVPLSDALLNKLIGRYSQAIEALPPDKYGQNESFARIQVRFAELKAIQEPDDARDYFQMARAN
CKKFAFVHISFAQFELSQGNVKKSKQLLQKAVERGAVPLEMLEIALRNLNLQKKQLLSEEEKKNLSAST
VLTAQESFSGSLGHLQNRNNSCDSRGQTTKARFLYGENMPPQDAEIGYRNSLRQTNKTKQSCPFGRVPV
NLLNSPDCDVKTDDSVVPCFMKRQTSRSECDLVVPGSKPSGNDSCELRNLSVQNSHFKEPLVSDEKS
SELIITDSITLKNKTESSLLAKLEETKEYQEPEVPESNQKQWQSKRKSECINQNPAASSNHWQIPELAR
KVNTEQKHTTFEQPVFSVSKQSPPISTSKWFDPKSICKTPSSNTLDDYMSCFRTPVVKNDFFPACQLST
PYGQPACFQQQHQILATPLQNLQVLASSANECISVKGRIYSILKQIGSGGSSKVFQVLNEKKQIYAI
KYVNLEEADNQTLDSYRNEIAYLNKLQQHSDKIIRLYDYEITDQYIYMVMCEGNI DLNSWLKKKSIDP
WERKSYWKNM LEAVHTIHQHGIVHSDLKPANFLIVDGMLKLIDFGIANQM QPDTTSVVKDSQVGTVNY
M
PPEAIKDMSSSRENGKSKSKISPKSDVWSLGCILYYMTYGKTPFQQIINQISKLHAIIDPNHEIEFPDI
PEKDLQDVLKCGLKRDPKQRISIPPELLAHPYVQIQTHPVNQMAKGTTEEMKYVLGQLVGLNSPNSILKA
AKTLYEHYSGGESHNSSSSKTFEKKRGKK
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC200093 also available, [TP300093](#)

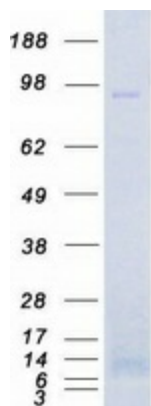
Tag:	C-Myc/DDK
Predicted MW:	96.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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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.
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:	<u>NP_003309</u>
Locus ID:	7272
UniProt ID:	<u>P33981</u>
RefSeq Size:	3010
Cytogenetics:	6q14.1
RefSeq ORF:	2571
Synonyms:	CT96; ESK; MPH1; MPS1; MPS1L1; PYT
Summary:	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]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	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]).