

## Product datasheet for **SC329184**

### **Mps1 (TTK) (NM\_001166691) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mps1 (TTK) (NM_001166691) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mps1
Synonyms:	CT96; ESK; MPH1; MPS1; MPS1L1; PYT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001166691, the custom clone sequence may differ by one or more nucleotides

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ATGGAATCCGAGGATTTAAGTGGCAGAGAATTGACAATTGATTCCATAATGAACAAAGTG
AGAGACATTAATAAAGTTTAAAAATGAAGACCTTACTGATGAACCTAAGCTTGAATAAA
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GATGCTCTTTTAAATAAATTGATTGGTGTACAGTCAAGCAATTGAAGCGCTTCCCCA
GATAAATATGGCCAAAATGAGAGTTTGTGCTAGAATTCAGTGAAGTTTGTGCTGAATTAATA
GCTATTCAAGAGCCAGATGATGCACGTGACTACTTTCAAATGGCCAGAGCAAAGTCAAG
AAATTTGCTTTTGTTCATATATCTTTTGCACAATTTGAACTGTCACAAGGTAATGTCAA
AAAAGTAAACAACCTTCTTCAAAAAGCTGTAGAACGTGGAGCAGTACCACTAGAAATGCTG
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TTATATGGAGAGAACATGCCACCACAAGATGCAGAAATAGTTACCGGAATTCATTGAGA
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GCTGACTCTTCAAATCACTGGCAGATTCCGGAGTTAGCCCGAAAAGTTAATACAGAGAAA
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CCACTTCAAAATTTACAGGTTTTAGCATCTTCTCAGCAAATGAATGCATTTCCGTTAAA
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AACCAAATCTTGATAGTTACCGAAGCAATAGCTTATTTGAATAAATACAACAACAC
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TGGGAACGCAAGAGTTACTGGAAAAATATGTTAGAGGCAGTTCACACAATCCATCAACAT
GGCATTGTTACAGTGTCTTAAACCAGCTAATTTCTGATAGTTGATGGAAATGCTAAAG
CTAATTGATTTTGGGATTGCAACCAAAATGCAACCAGATACAACAAGTGTGTTAAAGAT
TCTCAGGTTGGCAGGTTAATTAATGCCACCAGAAGCAATCAAGATATGTCTTCTCTCC
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TGATTTTGTACTATGACTTACGGGAAAACACCAATTTTCAGCAGATAATTAATCAGATT
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AAAGATCTTCAAGATGTGTTAAAGTGTGTTTAAAAAGGGACCCAAAACAGAGGATATCC
ATTCTGAGCTCCTGGCTCATCCATATGTTCAAATTCAAACTCATCCAGTTAACCAAATG
GCCAAGGGAACCACTGAAGAAATGAAATATGTTCTGGGCCAATGTTGGTCTGAATTTCT
CCTAACTCCATTTTGAAGCTGCTAAAATTTATATGAACACTATAGTGGTGGTGAAGT
CATAATTTCTCATCTCCAAGACTTTTGAATAAAAAAGGGGAAAAAATGA

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001166691

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001166691.1</a></u> , <u><a href="#">NP_001160163.1</a></u>
<b>RefSeq Size:</b>	3019 bp
<b>RefSeq ORF:</b>	2571 bp
<b>Locus ID:</b>	7272
<b>UniProt ID:</b>	<u><a href="#">P33981</a></u>
<b>Cytogenetics:</b>	6q14.1
<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
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses alternate in-frame splice sites in the 5' UTR and in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>