

## Product datasheet for **SC320233**

### **MPP1 (NM\_002436) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MPP1 (NM_002436) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPP1
Synonyms:	AAG12; DXS552E; EMP55; MRG1; PEMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002436.2  
 CTTGCGTTCCAGTGTTCCAGCTTCTGCGAGATGACCTCAAGGCGAGCGAGGGCGAGAGT  
 GGGGGCAGCATGCACACGGCGCTCTCCGACCTCTACCTGGAGCATTTGCTGCAGAAGCGT  
 AGTCGGCCAGAGGCTGTATCGCATCCATTGAATACTGTGACCGAGGACATGTACACCAAC  
 GGGTCTCTGCCCCAGGTAGCCCTGCCAGGTCAAGGGACAGGAGGTGCGGAAAGTGCGA  
 CTCATACAGTTTGAAGAAGTACAGAAGAGCCCATGGGAATCACGCTGAAGCTGAATGAA  
 AAACAGTCTGTACGGTGGCCAGAATTCTTCATGGTGGCATGATCCATAGACAAGGCTCC  
 CTTACAGTGGGGATGAGATCCTAGAAATCAATGGCACAAATGTGACAAATCATTAGTG  
 GATCAGCTGCAGAAGGCGATGAAAGAAACCAAAGGAATGATCTCATTAAAAGTAATTC  
 AACAGCAAAGCCGCTCTTCTGCACTACAGATGTTTCATGAGAGCGCAGTTTGACTATGAT  
 CCCAAAAAGGACAATCTGATCCCTTGCAAGGAGGCGGGACTGAAGTTTGCTACTGGGGAC  
 ATTATCCAGATTACAACAAGGATGACAGCAATTGGTGGCAGGGACGGGTGGAAGGCTCC  
 TCCAAGGAGTCAGCAGGATTGATCCCTCCCCTGAGCTGCAGGAATGGCGAGTGGCAAGT  
 ATGGCTCAGTCAGCTCCTAGCGAAGCCCCGAGCTGCAGTCCCTTTGGGAAGAAGAAGAAG  
 TACAAAGACAAAATCTGGCCAAGCACAGCTCGATTTTTGATCAGTTGGATGTTGTTCC  
 TACGAGGAAGTCGTTCCGCTCCCTGCATTCAAGAGGAAGACCCTGGTGCTGATCGGAGCC  
 AGTGGGGTGGGTGCGCAGCCACATTAAGAATGCCCTGCTCAGCCAGAATCCGGAGAAGTTT  
 GTGTACCTGTCCATATACAACACGGCCGCCAAGGAAGAGTGAGGAAGATGGGAAGGAG  
 TACCACTTTATCTCAACGGAGGAGATGACGAGGAACATCTCTGCCAATGAGTTCTTGAG  
 TTTGGCAGCTACCAAGGCAACATGTTTGGCACCAAAATTTGAAACAGTGCACCAGATCCAT  
 AAGCAGAAACAAGATTGCCATCCTTGACATTGAGCCCCAGACCCTGAAAATTTGTCGGACA  
 GCAGAAATTTGCCTTTTCATTGTGTTTCATTGCACCTACTGACCAGGGCACTCAGACAGAA  
 GCCCTGCAGCAGCTGCAGAAGGACTCTGAGGCCATCCGACAGCAGTACGCTCACTACTTT  
 GACCTCTCACTGGTCAATAATGGTGTGATGAAACCCCTTAAGAAATTACAAGAAGCCTTC  
 GACCAAGCGTGCAGTTCTCCACAGTGGGTGCTGCTCCTGGGTTTACTAAGCTTGATAGA  
 ATGGGGGAACCCACTGTATGCCCTCTCCAGCATTGGAATTCACCCGCTTGCTTTAA  
 GACAAACAGGGCTGCTCCAAGTATTTTGTGTCAGCTTCCAGCTCTCTGCAGCTATCCTA  
 ATTCAGCCAGTAAGGTTCACTTCTTGTCTCAGGCTCCTGAAGGGTTGATTCTCCTGATA  
 GATGGGGCCCCACTGATCTGGATTTGAAAAGGATTTCTAGAAATGGGGGTAAGAAGTAC  
 TACCAAAATGTAAGTCTAATCAAGGGTATGCACAGCAAAGCAATGGACCCCATCCCT  
 CTAAGGCTGCCCTCCTTTGCCCTCAACTGTATATGCTGGGTATTTTCATTTGCTTTTTTA  
 TTTTGGAGAAAGCGTTTTTAAGTCAACTTTCTATAATGCCAAAATGACACATCTGTGCA  
 ATAGAATGATGTCTGCTCTAGGGAAACCTTCAAAGCAATAAAAATGCTGTGTTGAAATG  
 CCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002436

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**Components:** 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>	<a href="#">NM_002436.2</a> , <a href="#">NP_002427.1</a>
<b>RefSeq Size:</b>	2001 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	4354
<b>UniProt ID:</b>	<a href="#">Q00013</a>
<b>Cytogenetics:</b>	Xq28
<b>Domains:</b>	SH3, PDZ, Guanylate_kin, GuKc
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes the prototype of the membrane-associated guanylate kinase (MAGUK) family proteins. MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intercellular junctions. The encoded protein is an extensively palmitoylated membrane phosphoprotein containing a PDZ domain, a Src homology 3 (SH3) motif, and a guanylate kinase domain. This gene product interacts with various cytoskeletal proteins and cell junctional proteins in different tissue and cell types, and may be involved in the regulation of cell shape, hair cell development, neural patterning of the retina, and apico-basal polarity and tumor suppression pathways in non-erythroid cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>