

## Product datasheet for **RC230084**

### **MPP1 (NM\_001166462) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MPP1 (NM_001166462) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPP1
Synonyms:	AAG12; DXS552E; EMP55; MRG1; PEMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230084 representing NM\_001166462  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTCTGGGCTGTATCGCATCCATTTGAATACTGTGACCGAGGACATGTACACCAACGGGTCTCCTG  
 CCCAGGTAGCCCTGCCAGGTCAAGGGACAGGAGGTGCGGAAAGTGCGACTCATACAGTTTGAGAAGGT  
 CACAGAAGAGCCCATGGGAATCACGCTGAAGCTGAATGAAAAACAGTCCTGTACGGTGGCCAGAATTCCT  
 CATGGTGGCATGATCCATAGACAAGGCTCCCTTACGCTGGGGGATGAGATCCTAGAAATCAATGGCACAA  
 ATGTGACAAATCATTAGTGGATCAGCTGCAGAAGGCGATGAAAGAAACCAAGGAATGATCTCATTAAA  
 AGTAATCCCAACCAGCAAAGCCGCTTCTCCTGCACTACAGATGTTTCATGAGAGCGCAGTTTGACTATGAT  
 CCCAAAAAGGACAATCTGATCCCTTGAAGGAGGCGGACTGAAGTTTGTACTGGGGACATTATCCAGA  
 TTATCAACAAGGATGACAGCAATTTGGTGGCAGGACGGGTGGAAGGCTCCTCAAGGAGTCAGCAGGATT  
 GATCCCTTCCCTGAGCTGCAGGAATGGCGAGTGGCAAGTATGGCTCAGTCAGCTCCTAGCGAAGCCCCG  
 AGCTGCAGTCCCTTTGGGAAGAAGAAGAAGTACAAAGACAAATATCTGGCCAAGCACAGCTCGATTTTGT  
 ATCAGTTGGATGTTGTTTCTACGAGGAAGTCGTTTCGGCTCCCTGCATTCAAGAGGAAGACCCCTGGTGT  
 GATCGGAGCCAGTGGGTGGTTCGACGCCACATTAAGAATGCCCTGCTCAGCCAGAATCCGGAGAAGTTT  
 GTGTACCTGTCCATATAACAACCGGCCGCCAAGGAAGAGTGAGGAAGATGGGAAGGAGTACCCTTTA  
 TCTCAACGGAGGAGATGACGAGGAACATCTCTGCCAATGAGTTCTTGGAGTTTGGCAGCTACCAAGGCAA  
 CATGTTTGGCACAAATTTGAAACAGTGCACCAGATCCATAAGCAGAACAAGATTGCCATCCTTGACATT  
 GAGCCCCAGACCTGAAAATTGTTGGACAGCAGAAGTTTCGCCCTTTCATTGTGTTTCATTGCACCTACTG  
 ACCAGGGCACTCAGACAGAAGCCCTGCAGCAGCTGCAGAAGGACTCTGAGGCCATCCGCAGCCAGTACGC  
 TCACTACTTTGACCTCTCACTGGTCAATAATGGTGTGATGAAACCCCTAAGAAATTACAAGAAGCCCTTC  
 GACCAAGCGTGCAGTTCTCCACAGTGGGTGCCTGTCTCCTGGTTTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230084 representing NM\_001166462  
 Red=Cloning site Green=Tags(s)

MESWAVSHPLNVTEDMYTNGSPAPGSPAQVKGQEVKRVRLIQFEKVTEETPMGITLKLNEKQSCTVARIL  
 HGGMIHRQGS�HVGEILEINGTNVTNHSVDQLQKAMKETKGMISLKVIPNQSRPALQMFMRQFDYD  
 PKKDNLIPCKEAGLKFATGDI IQIINKDDSNWWQGRVEGSSKESAGLIPSELQEWVRSMAQSAPSEAP  
 SCSPFGKKKKYKDKYLAKHSSIFDQLDVVSYEEVVRLPAFKRRTLVLIGASGVGRSHIKNALLSQNPEKF  
 VYPVPTTRPPRKSEEDGKEYHFISTEEMTRNISANEFLEFGSYQGNMFGTKFETVHQIHKQNKIAILDI  
 EPQTLKIVRTAELSPFIVFIAPTDQGTQTEALQQLQKDSEAIRSQYAHYFDLSLVNNGVDETLKKLQEF  
 DQACSSPQWVPVSWVY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_g07.zip](https://cdn.origene.com/chromatograms/mk8059_g07.zip)

**Restriction Sites:**

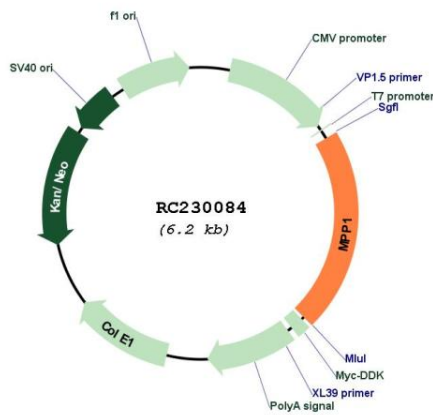
Sgfl-Mlul



**MW:** 49.5 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC230084