

Product datasheet for SC328722

MPP1 (NM_001166462) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP1 (NM_001166462) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPP1
Synonyms:	AAG12; DXS552E; EMP55; MRG1; PEMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328722 representing NM_001166462. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGTCCTGGGCTGTATCGCATCCATTGAATACTGTGACCGAGGACATGTACACCAACGGGTCTCCT
GCCCCAGGTAGCCCTGCCAGGTCAAGGACAGGAGGTGCGGAAAGTGCGACTCATAAGTTTGTAGAAAG
GTCACAGAAGAGCCCATGGGAATCACGCTGAAGCTGAATGAAAAACAGTCTGTACGGTGGCCAGAATT
CTTCATGGTGGCATGATCCATAGACAAGGCTCCCTTACGTGGGGATGAGATCCTAGAAATCAATGGC
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TTAAAAGTAATCCCAACCAGCAAAGCCGCTTCTCTGACTACAGATGTTTCATGAGAGCGCAGTTTGAC
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ATCCAGATTATCAACAAGGATGACAGCAATTGGTGGCAGGGACGGGTGGAAGGCTCCTCCAAGGAGTCA
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TCGATTTTGTGATCAGTTGGATGTTGTTTCTACGAGGAAGTGTTCGGCTCCCTGCATTCAAGAGGAAG
ACCCTGGTGTGATCGGAGCCAGTGGGGTGGTGCAGCCACATTAAGAATGCCCTGCTCAGCCAGAAT
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TTCATTGCACCTACTGACCAGGGCACTCAGACAGAAGCCCTGCAGCAGCTGCAGAAGGACTCTGAGGCC
ATCCGCAGCCAGTACGCTCACTACTTTGACCTCTCACTGGTCAATAATGGTGTGATGAAACCTTAAG
AAATTACAAGAAGCCTTCGACCAAGCGTGCAGTTCTCCACAGTGGGTGCCTGTCTCTGGGTTTACTAA
ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001166462
Insert Size:	1311 bp
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).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	<u>NM_001166462.1</u>
RefSeq Size:	2216 bp
RefSeq ORF:	1311 bp
Locus ID:	4354
UniProt ID:	<u>Q00013</u>
Cytogenetics:	Xq28
Protein Families:	Druggable Genome
MW:	49.1 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]

Transcript Variant: This variant (4) contains an alternate exon in the 5' coding region that results in a distinct 5' UTR and translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform 4) has a shorter and distinct N-terminus, compared to isoform 1.