

Product datasheet for **SC118952**

MPP3 (NM_001932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP3 (NM_001932) Human Untagged Clone
Tag:	Tag Free
Symbol:	MPP3
Synonyms:	DLG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001932, the custom clone sequence may differ by one or more nucleotides

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ATGCCAGTGTATCGGAGGACTCTGGTTTGCATGAAACCCTGGCCCTGCTGACCTCCAGCTCAGACCTG
ACTCCAACCACAAGGAGGAGATGGGCTTCTGAGGGATGTTTTTCAGTGAAAAAGCCTCAGTTACTTAAT
GAAGATTCATGAGAAGCTTCGCTATTATGAAAGGCAAAGTCCAACCCAGTTCTGCACAGCGCTGTGGCC
CTCGCTGAGGACGTGATGGAGGAGTTGCAGGCCGCTCCGTGCACAGTGATGAGAGGGAGCTGCTCCAGC
TGCTGTCCACCCCGCACCTGAGGGCTGTGCTCATGGTACATGACACGGTTGCCAGAGAATAATTTGACCC
CGTTCTCCCGCTCTGCCTGACAATATCGATGAGGATTTTGTAGGAATCGGTGAAGATCGTCCGCTTG
GTGAAGAACAAGGAACCCCTGGGTGCCACCATCCGGCGGGACGAGCACTCAGGGGCTGTTGTGGTGCCA
GGATCATGCGAGGAGGCGCAGCAGACAGGAGCGGCTGGTCCACGTTGGAGATGAGCTCCGAGAAGTGAA
CGGGATCGCAGTCTGCACAAGCGGCCGACGAGATCAGCCAGATTCTGGCCAGTCCAGGGATCCATC
ACCCTAAAAATCATCCCAGCCACCCAGGAGGAAGATCGCTTAAAGGAGAGCAAGGTGTTTCATGCGCGCCC
TCTTCCACTACAACCCTCGGGAGGACCGGGCCATCCCTTGCCAGGAGCGGGCTGCCCTCCAGCGCAG
GCAGGTCTCGAGGTGGTGAGCCAGGACGACCCACGTGGTGGCAGGCCAAGCGAGTCGGGGACACCAAC
CTTCGAGCCGGCCTCATCCCCTCAAGGGTTCAGGAGAGACGACTAAGCTACCGGAGAGCCGCGGGCA
CCCTGCCGAGCCCCAGAGCCTCAGGAAGCCCCCTATGATCAGCCTTGTGACAAAGAGACCTGTGACTG
TGAGGGTACCTCAAAGGGCACTATGTGGCTGGTCTTCGGAGGAGCTCCGGCTGGGCTGTAGGGAGAGA
CTGGGTGGCTCGCAGGAAGGAAAGATGTCTCCGAGCTGAGTCTCCGGAGCTGCTGACTTACGAAGAGG
TGGCCAGTACCAACACCAGCCCGGAGAGCGGCCCGCCTGGTGGTCTGATCGGTCTCTGGGAGCCCG
ACTGCACGAGCTGAAGCAAAGGTGGTGGCTGAGAACCACAGCACTTTGGCGTCTGTTCCACATACC
ACCAGGCCCGAAAGAGCCATGAGAAGGAAGAGTGAATATCACTTTGTGTCTAAGCAAGCATTTGAGG
CCGACTTACATCACAAACAGTTCTGGAACATGGTGAATAAAGGAAAATCTGTATGGAACCAAGCTGGA
GGCCATTCAGGCTGTTATGGCCAAAAACAAAGTTTGTGGTGGATGTGGAGCCAGAAGCACTGAAACAA
CTGAGGACCTCAGAATTTAAACCCTATATTATTTGTAAGCCTGCAATTGAGGAAAAAGAAAAACGC
CACCTATGTCCCGAGTTGTGAGGACACAGCAGCCCCATTTGATGAGCAGCAGCAAGAGATGGCCGCTTC
TGCCGCTTCATAGACCGGCATTACGGGCACCTGGTAGACGCCGTGCTGGTGAAGGAGGATCTCCAGGGT
GCCTACAGCCAGCTCAAAGTGGTCTTAGAGAAGCTGAGCAAGGACACTACTGGTACCTGTTAGTTGGG
TCAGGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001932 unedited

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NGCGTTCGCATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCGGGCGG
CCAGGCTCTGGGCACTCGCGCGGCTCCCGTTCGCGNGACACATCCCGGCGGACGAGG
TTCCTTCGGAGAGCGAGCGGGAGTGGTGTCTCGGCCTCCTGCGGGGAGCAGCCCGAGGAA
TCTGCAGGGAGAGGTGGGAGGTGACAACGCCAGCATGCCAGTGTATCGGAGGACTCTG
GTTTGCATGAAACCCTGGCCCTGCTGACCTCCAGCTCAGACCTGACTCCAACCACAAGG
AGGAGATGGGCTTCTGAGGGATGTTTTTCAGTGAAAAAGCCTCAGTTACTTAATGAAGA
TTCATGAGAAGCTTCGCTATTATGAAAGGCAAAGTCCAACCCAGTTCTGCACAGCGCTG
TGGCCCTCGCTGAGGACGTGATGGAGGAGTTGCAGGCCGCTCCGTGCACAGTGATGAGA
GGGAGCTGCTCCAGTGTGTCCACCCCGCACCTGAAGGCTGTGCTCATGGTACATGACA
CGGTTGCCAGAGAATTTGACCCGTTCTCCCGCTCTGCCTGACATATCGATGAAGA
TTTTGATGAGGAATCGGTGAAGATCGTCCGCTTGGTGAAGAAACAAGGAACCCCTGGTGC
CACCATCNCGCGNACGAGCACTCAGGNGCTGTTGTGGTGGCCAGNATCATGNNCGAGAG
CGCAGCAGACAGAGCGGCCCTGGTCCACGTTGAAATGAGCTNCGAGAAATGAACGGGGA
TCGCATTCCTGCAAGCGGGCCGACGAGATCAGCCAGATTCTGGCCAGTCCAGGGA
TCCATTACCCTAAAAATCCTCCAGCCACCCAGGAGGAAGAATCCTTAAAGGAAACCAAG
TGTTTCATGCC
    
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3' Read Nucleotide Sequence: >OriGene 3' read for NM_001932 unedited
TATGTA~~CTCGGCCG~~CATTCTANGATCGAGTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGGGCCAACCTGCCTGGGATACTTTAA
AAAAGAAATGGGTGTTTTCTGATATGCCCTTTCAAATCATGATCCAAAGAGGGGCAGG
GAAAAACAACAGACAAAAACCAACAACAAATTTTTTTCCCACTATACTTTTTTGAGG
AGGGAATTTGGGGAAATTTTCTCCTTTTTGCCCTTGAATTCCTTGGGGGAAAAATGA
GGGAGTCTGGACTAAATGATTTTCAAGGGCCCGTCCAATTTGGATGTTCTGGGAAAAAGT
TACCTGACCCAATAAAAAGGTACCCAGGGGGGTCTTGCTCAACTTTTTTAAAAACCACT
TTGAGCTGGGTGGAGGCCCTGGAATCCTCCTTTACCAACACGGGTTTACCAGGTGC
CCGTAATGCCGTCTATTAAGGGGGGAAAAAGCGGCCATTTTTTGGTGGTGGTCATAAAAA
GGGGCTGGTGTCTCACAAGCTGGGGACATAGGGGGGGTTTTTTTTTTTTCTGAATT
GCAGGCTTTACAATATAATATAGGGTTAAATTTCTGAGGCCCTCAATGTTTCAAGGCT
TTTGGGTCCACATCCACCACAAAACTTTGTTTTGGGCCTAACAGCCTGAATGGCCCC
AGGCTGGTTCCTAAAGATTTTTCTTAATCCCATGTTTACGAATTTTTGGATGAAGT
CGGCCAAAGCTTGTTTAAACAAAGGAATCCCCCTCCTTTTAGGGTCTTTGGGCCGG
GGGGGTTTTTAAAAAAAAGCTGGCAAAATTTCTTCTAACCCGGGGCCGCACGG
GTTAGGCCCTTTGGAGTTACGGCGGTGGTTT

Restriction Sites: NotI-NotI

ACCN: NM_001932

Insert Size: 3000 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).

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:**
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: [NM_001932.2](#), [NP_001923.2](#)

RefSeq Size: 3012 bp

RefSeq ORF: 1758 bp

Locus ID: 4356

UniProt ID: [Q13368](#)

Cytogenetics: 17q21.31

Domains: SH3, PDZ, L27, Guanylate_kin, GuKc

Protein Families: Druggable Genome

Gene Summary:

This gene product is a member of a family of membrane-associated proteins termed MAGUKs (membrane-associated guanylate kinase homologs). MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intracellular junctions. This protein contains a conserved sequence, called the SH3 (src homology 3) motif, found in several other proteins that associate with the cytoskeleton and are suspected to play important roles in signal transduction. Alternatively spliced transcript variants have been identified. One transcript variant is experimentally supported, but it doesn't encode a protein. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the shortest isoform (1).