

Product datasheet for **RC208903**

MPP3 (NM_001932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP3 (NM_001932) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPP3
Synonyms:	DLG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208903 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGTGTATCGGAGGACTCTGGTTTGCATGAAACCTGGCCCTGCTGACCTCCAGCTCAGACCTG
 ACTCCAACCACAAGGAGGAGATGGGCTTCTGAGGGATGTTTTAGTGAAAAAGCCTCAGTTACTTAAT
 GAAGATTCATGAGAAGCTTCGCTATTATGAAAGGCAAAGTCCAACCCAGTTCTGCACAGCGCTGTGGCC
 CTCGCTGAGGACGTGATGGAGGAGTTGCAGGCCCTCCGTGCACAGTATGAGAGGGAGCTGCTCCAGC
 TGCTGTCCACCCCGCACCTGAGGGCTGTGCTCATGGTACATGACACGGTTGCCAGAAGAATTTGACCC
 CGTTCTCCCGCTCTGCCTGACAATATCGATGAGGATTTGATGAGGAATCGGTGAAGATCGTCCGCTTG
 GTGAAGAACAAGGAACCCCTGGGTGCCACCATCCGGCGGGACGAGCACTCAGGGGCTGTTGTGGTGGCA
 GGATCATGCGAGGAGGCCAGCAGACAGGAGCGGCTGGTCCACGTTGGAGATGAGCTCCGAGAAGTGAA
 CGGGATCGCAGTCTGCACAAGCGGCCGACGAGATCAGCCAGATTCTGGCCAGTCCCAGGGATCCATC
 ACCCTAAAAATCATCCCAGCCACCCAGGAGGAAGATCGCTTAAAGGAGAGCAAGGTGTTTCATGCGCGCC
 TCTTCCACTACAACCCTCGGGAGGACCGGGCCATCCCTTGCCAGGAGGGCGGCTGCCCTTCCAGCGCAG
 GCAGGTCTGGAGGTGGTGAAGCAGGACACCCACGTGGTGGCAGGCCAAGCGAGTCCGGGACACCAAC
 CTTGAGCCGGCTCATCCCCTCCAAGGGTTCAGGAGAGACGACTAAGCTACCGGAGAGCCGCGGGCA
 CCCTGCCGAGCCCCAGAGCCTCAGGAAGCCCCCTATGATCAGCCTTGACAAAGAGACCTGTGACTG
 TGAGGGTACCTCAAAGGGCACTATGTGGCTGGTCTTCGGAGGAGCTCCGGCTGGGCTGTAGGGAGAGA
 CTGGGTGGCTCGCAGGAAGGAAAGATGTCTCCGAGCTGAGTCTCCGGAGCTGCTGACTACGAAGAGG
 TGCCAGGTACCAACACCCAGCCCGGAGAGCGGCCCGCTGGTGGTCTGATCGGGTCTCTGGGAGCCCG
 ACTGCACGAGCTGAAGCAAAAGTGGTGGCTGAGAACCACAGCACTTTGGCGTCTGCTGTTCCACATACC
 ACCAGGCCCGAAAGAGCCATGAGAAGGAAGAGTGAATATCACTTTGTGTCTAAGCAAGCATTGAGG
 CCGACTTACATCACAACAAGTTCCTGGAACATGGTGAATATAAGGAAAATCTGTATGGAACCAGCCTGGA
 GGCCATTGAGGCTGTTATGGCAAAAAACAAGTTGTTTGGTGGATGTGGAGCCAGAAGCACTGAAACAA
 CTGAGGACCTCAGAAATTAACCCTATATTATTTGTAAGCCTGCAATTCAGGAAAAAGAAAAACGC
 CACCTATGTCCCAGCTGTGAGGACACAGCAGCCCCATTTGATGAGCAGCAGCAAGAGATGGCCGCTTC
 TGCCGCTTCATAGACCGGCATTACGGCACCTGGTAGACCCGTGCTGGTGAAGGAGGATCTCCAGGGT
 GCCTACAGCCAGCTCAAAGTGGTCTTAGAGAAGCTGAGCAAGGACACTACTGGGTACCTGTTAGTTGG
 TCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208903 protein sequence
 Red=Cloning site Green=Tags(s)

MPVLSSEDSGLHETLALLTSQLRPDSNHKEEMGFLRDVFSEKSLSYLMKIHEKLYYERQSPTPVLHSAVA
 LAEDVMEELQAASVHSDEHELLQLLSTPHLRVLMVHDTVAQKNFDPVLPPLPDNIDEDFDEESVKIVRL
 VKNKEPLGATIRRDEHSGAVVVARIMRGGAAADRSLVHVGDELREVNGI AVLHKRPDEISQILAQSQSGSI
 TLKIIPATQEEDRLKESKVFMRALFHYNPREDRAIPCQEAGLPFQRRQVLEVVSDQDPTWWQAKRVGDTN
 LRAGLIPSKGFQERRLSYRRAAGTLPSPQSLRKPPYDQPCDKETCDCEGYLKGHYVAGLRRSFRLGCRER
 LGGSQEGKMSSGAESPELLTYEEVARYQHQPGERPRLVVLIGSLGARLHELKQKVVAENPQHFGVAVPHT
 TRPRKSHEKEGVYHFVSKQAFEADLHHNKFLHGEYKENLYGTSLEAIQAVMAKNKVLVDVEPEALKQ
 LRTSEFKPYIIFVKPAIQEKRKTPMSPACEDTAAPFDEQQQEMAASAAFIDRHYGHLVDAVLVKEDLQ
 AYSQLKVVLEKLSKDTHTWVPVSWVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6353_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001932

ORF Size: 1755 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001932.6](#)

RefSeq Size: 2851 bp

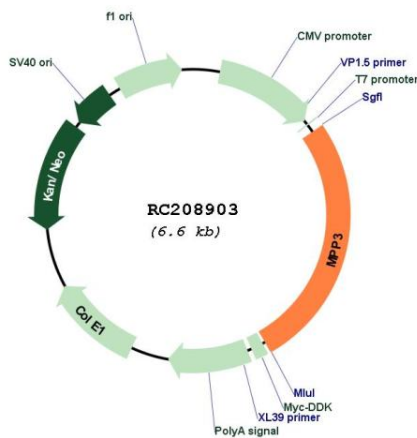
RefSeq ORF: 1758 bp

Locus ID: 4356

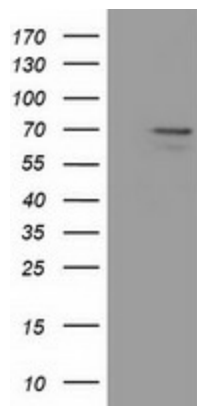
UniProt ID: [Q13368](#)
Cytogenetics: 17q21.31
Domains: SH3, PDZ, L27, Guanylate_kin, GuKc
Protein Families: Druggable Genome
MW: 66.2 kDa

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]

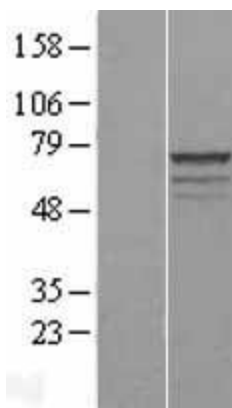
Product images:



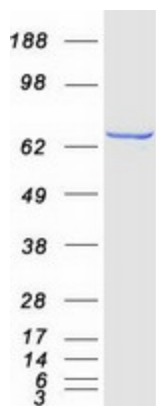
Circular map for RC208903



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MPP3 (Cat# RC208903, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MPP3 (Cat# [TA501303]). Positive lysates [LY419634] (100ug) and [LC419634] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419634]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208903 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MPP3 protein (Cat# [TP308903]). The protein was produced from HEK293T cells transfected with MPP3 cDNA clone (Cat# RC208903) using MegaTran 2.0 (Cat# [TT210002]).