

Product datasheet for **RG208903**

MPP3 (NM_001932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP3 (NM_001932) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPP3
Synonyms:	DLG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208903 representing NM_001932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGTGTATCGGAGGACTCTGGTTTGCATGAAACCTGGCCCTGCTGACCTCCAGCTCAGACCTG
 ACTCCAACCACAAGGAGGAGATGGCTTCTGAGGGATGTTTTAGTGAAGAAAGCCTCAGTTACTTAAT
 GAAGATTCATGAGAAGCTTCGCTATTATGAAAGGCAAAGTCCAACCCAGTTCTGCACAGCGCTGTGGCC
 CTCGCTGAGGACGTGATGGAGGAGTTGCAGGCCCTCCGTGCACAGTATGAGAGGGAGCTGCTCCAGC
 TGCTGTCCACCCCGCACCTGAGGGCTGTGCTCATGGTACATGACACGGTTGCCAGAAGAATTTGACCC
 CGTTCTCCCGCTCTGCCTGACAATATCGATGAGGATTTGATGAGGAATCGGTGAAGATCGTCCGCTTG
 GTGAAGAACAAGGAACCCCTGGGTGCCACCATCCGGCGGGACGAGCACTCAGGGGCTGTTGTGGTGGCA
 GGATCATGCGAGGAGGCCAGCAGACAGGAGCGGCTGGTCCACGTTGGAGATGAGCTCCGAGAAGTGAA
 CGGGATCGCAGTCTGCACAAGCGGCCGACGAGATCAGCCAGATTCTGGCCAGTCCCAGGGATCCATC
 ACCCTAAAAATCATCCCAGCCACCCAGGAGGAAGATCGCTTAAAGGAGAGCAAGGTTCATGCGCGCCC
 TCTTCCACTACAACCCTCGGGAGGACCGGGCCATCCCTTGCCAGGAGCGGGCCCTGCCCTTCCAGCGCAG
 GCAGGTCTGGAGGTGGTGAAGCAGGACACCCACGTGGTGGCAGGCCAAGCGAGTCCGGGACACCAAC
 CTTGAGCCGGCCTCATCCCCTCAAGGGGTTCCAGGAGAGACGACTAAGCTACCGGAGAGCCGCGGGCA
 CCCTGCCGAGCCCCAGAGCCTCAGGAAGCCCCCTATGATCAGCCTTGACAAAGAGACCTGTGACTG
 TGAGGGTACCTCAAAGGGCACTATGTGGCTGGTCTTCGGAGGAGCTTCCGGCTGGGCTGTAGGGAGAGA
 CTGGGTGGCTCGCAGGAAGGAAAGATGTCTCCGGAGCTGAGTCTCCGGAGCTGCTGACTACGAAGAGG
 TGCCACGGTACCAACACCCAGCCCGGAGAGCGGCCCGCTGGTGGTCTGATCGGGTCTCTGGGAGCCCG
 ACTGCACGAGCTGAAGCAAAGGTGGTGGCTGAGAACCACAGCACTTTGGCGTCTGTTCCACATACC
 ACCAGGCCCGAAAGAGCCATGAGAAGGAAGGAGTGAATATCACTTTGTGTCTAAGCAAGCATTGAGG
 CCGACTTACATCACAAACAGTTCCTGGAACATGGTGAATATAAGGAAAATCTGTATGGAACCAGCCTGGA
 GGCCATTCAGGCTGTTATGGCAAAAACAAAGTTTGGTTGGTGGATGTGGAGCCAGAAGCACTGAAACAA
 CTGAGGACCTCAGAAATTAACCCTATATTATTTGTAAGCCTGCAATTCAGGAAAAAGAAAAACGC
 CACCTATGTCCCAGCTTGTGAGGACACAGCAGCCCCATTTGATGAGCAGCAGCAAGAGATGGCCGCTTC
 TGCCGCTTCATAGACCGGCATTACGGCACCTGGTAGACCCGTGCTGGTGAAGGAGGATCTCCAGGGT
 GCCTACAGCCAGCTCAAAGTGGTCTTAGAGAAGCTGAGCAAGGACACTACTGGGTACCTGTTAGTTGGG
 TCAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208903 representing NM_001932
 Red=Cloning site Green=Tags(s)

MPVLSSEGLHETLALLTSQLRPDSNHKEEMGFLRDVFSEKLSYLMKIHEKLRYYERQSPTPVLHSAVA
 LAEDVMEELQAASVHSDEHELLQLLSTPHLRVLMVHDTVAQKNFDPVLPPLPDNIDEDFDEESVKIVRL
 VKNKEPLGATIRRDEHSGAVVVARIMRGGAADRSGLVHVGDELREVNIGI AVLHKRPDEISQILAQSQSGSI
 TLKIIPATQEEDRLKESKVFMRALFHYNPREDRAIPCQEAGLPFQRRQVLEVVSDPTWWQAKRVGDTN
 LRAGLIPSKGFQERRLSYRRAAGTLPSPQSLRKPPYDQPCDKETCDCEGYLKGHYVAGLRRSFRLGCRER
 LGGSQEGKMSSGAESPELLTYEEVARYQHQPGERPRLVVLIGSLGARLHELKQKVAENPQHFGVAVPHT
 TRPRKSHEKEGVEYHFVSKQAFEADLHNNKFLEHGEYKENLYGTSLEAIQAVMAKNKVLVDVEPEALKQ
 LRTSEFKPYIIFVKPAIQEKRKTPPMSPACEDTAAPFDEQQQEMAASAFAIDRHYGHLVDAVLVKEDLQG
 AYSQKVVLEKLSKDTHTWVPSWVR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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: 3012 bp

RefSeq ORF: 1758 bp

Locus ID: 4356

UniProt ID: [Q13368](#)

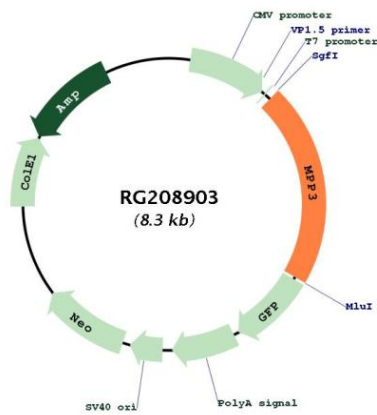
Cytogenetics: 17q21.31

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]

Product images:



Circular map for RG208903