

Product datasheet for **RG238077**

MPP2 (NM_001278374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPP2
Synonyms:	DLG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238077 representing NM_001278374. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGGCATCCGAAGACAGCCGGAGAACATCTGGGTGTAACGTTCCGCGTGGAGGGCGCGAGCTG
GTGATCGCGCGCATTCTGCATGGGGCATGGTGGCTCAACAAGGCCTGCTGCATGTGGGTGACATCATC
AAGGAGGTGAACGGGCAGCCAGTGGGCAGTGACCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGT
GGCAGTGTATCCTCAAGATCCTGCCAGCTACCAGGAGCCCATCTGCCCGCCAGGTATTTGTGAAA
TGTCACTTTGACTATGACCCGGCCGAGACAGCCTCATCCCTGCAAGGAAGCAGGCCTGCGCTTCAAC
GCCGGGACTTGCTCCAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGG
GGCAGTGTGGGCTATTCCAGCCAGCTGCTGGAGGAGAAGCGGAAAGCATTGTCAAGAGGGACCTG
GAGCTGACACAAACTCAGGGACCTATGCGGCAGCCTTTAGGAAAGAAAAAGAAAGCAATGATGTAT
TTGACCACCAAGAATGCAGAGTTTGACCGTCAAGCTGCTCATTATGAGGAGGTGGCCCGCATGCC
CCGTTCCGCCGAAAACCTGGTACTGATTGGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAG
CTCATCATGTGGGATCCAGATCGCTATGGCACCACGGTGCCTACACCTCCCGGGCGCGAAAGACTCA
GAGCGGAAGGTCAGGGTTACAGCTTTGTGTCCCGTGGGAGATGGAGGCTGACGTCCGTGCTGGGGC
TACCTGGAGCATGGCGAATACGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGT
GCTGCTGGGAAGGTGTGGTGTGATGTCAACCCAGCGGTGAAGGTGTACGAACCGCCGAGTTT
GTCCCTTACGTGGTGTTCATCGAGGCCAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTG
GAGAGTGAATATCCACCAAGCAGCTCACGGAGGCGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGC
ATCCAGCGGGGCTACGGCACTACTTTGACCTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTCCGC
GAGCTCCAGACAGCCATGGAGAAGCTACGGACAGAGCCCAAGTGGGTGCCTGTCAGCTGGGTGTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238077
 Blue=ORF Red=Cloning site Green=Tag(s)

MVGIRKTAGEHLGVTFRVEGGELVIARILHGGMVAQQGLLVHVDIIKEVNGQPVGSDPRALQELLRNAS
 GSVILKILPSYQEPHLPRQVFKCHFVDYDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEG
 GSAGLIPSQLLEEKRAFVKRDLELTPNSGTLGSLSGKKKRMMYLTTKNAEFDRELLIYEEVARM
 PFRRKTLVLIQAQGVGRRSLKNKLIIMWDPDRYGTTPVYTSRRPKDSEREGQGYSFVSRGEMEADVRAGR
 YLEHGEYEGNLYGTRIDSIIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAAL
 ESGISTKQLTEADLRRTVEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEPQWVPVSWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278374

ORF Size: 1239 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).

RefSeq: [NM_001278374.2](#)

RefSeq Size: 4526 bp

RefSeq ORF: 1242 bp
 Locus ID: 4355
 UniProt ID: [Q14168](#)

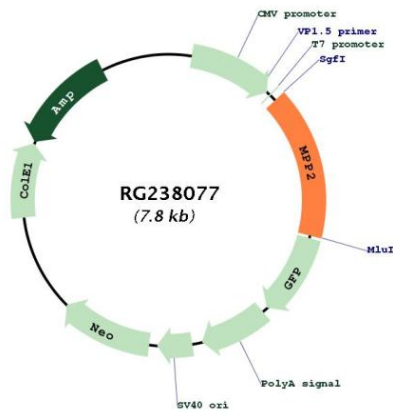
Cytogenetics: 17q21.31

Protein Families: Druggable Genome

MW: 47 kDa

Gene Summary: Palmitoylated membrane protein 2 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. Palmitoylated membrane protein 2 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG238077