

Product datasheet for **RG238807**

MPP2 (NM_001278373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278373) 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)



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ORF Nucleotide Sequence:

>RG238807 representing NM_001278373.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGCAAGTCCTGGACAACCTGGGATCCCTCCCAGTGCCACGGGGGCTGCAGAGCTGGACCTGATC
TTCCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCCATGAGAGGCTGGAGGAG
ACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCCTGCCGGACCTGGCGCAG
CTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCACATCCTCCAGGAGCCCCACTTCCAGTCCCTC
CTGGAGACGCACGACTCTGTGGCCTCAAAGACCTATGAGACACCACCCCCAGCCCTGGCCTGGACCCT
ACATTCAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAGCCGGAGAA
CATCTGGGTGTAACGTTCCGCGTGGAGGGCGCGAGCTGGTGATCGCGGCATTCTGCATGGGGCATG
GTGGCTCAACAAGCCTGCTGCATGTGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGGGCAGT
GACCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCAAGATCCTGCCAGC
TACCAGGAGCCCCATCTGCCCGCCAGGATTTTGTGAAATGTCACCTTTGACTATGACCCGGCCCGAGAC
AGCCTCATCCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGACTTGTCTCCAGATCGTAAACCAG
GATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGTGTGGGCTCATTCCAGCCAGCTG
CTGGAGGAGAAGCGAAAGCATTGTCAAGAGGGACCTGGAGCTGACACCAAACCTCAGGGACCCTATGC
GGCAGCCTTTTCAGGAAAGAAAAGAAGCGAATGATGATTTGACCACCAAGAATGCAGAGTTTGACCGT
CATGAGCTGCTCATTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGAAAACCTGGTACTGATT
GGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAAACAGCTCATCATGTGGGATCCAGATCGCTATGGC
ACCACGGTGCCCTACACCTCCCGCGCGCGAAAGACTCAGAGCGGAAGGTGAGGGTTACAGCTTTGTG
TCCCGTGGGAGATGGAGGTGACGTCCGTGCTGGGCGTACTGGAGCATGGCGAATACGAGGGCAAC
CTGTATGGCACACGTATTGACTCCATCCCGGGCGTGGTGCCTGCTGGGAAGGTGTGCGTGTGGATGTC
AACCCCAAGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTTCATCGAGGCCCA
GACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGAATATCCACCAAGCAGCTCAGC
GAGGGCGACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGCTACGGGCACTACTTTGAC
CTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGG
ACAGAGCCCCAGTGGGTGCCTGTCAGCTGGGTGTAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238807
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRS LAKAHERLEETKLEAVRDNNLELVQEILRDLAQ
LAEQSSTAAELAHILQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQVPPDAVRMVGIRKTAGE
HLGVTFRVEGGELVIARILHGGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNAGSVILKILPS
YQEPHLPRQVFKCHFVDYDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQ
LEEKRFKAFVKRDLELTPNSGTLGSLSGKKKRM MYLTTKNAEFDREHELLIYEEVARMPPFRKTLVLI
GAQGVGRRSLKNKLI MWDPDRYGTTPYTSRRPKDSEREGQGYSFVSRGEMEADV RAGRYLEHGEYEGN
LYGTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALES GISTKQLT
EADLRRTVESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRT EPQWVPVSWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001278373

ORF Size: 1623 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_001278373.2](#)

RefSeq Size: 4581 bp

RefSeq ORF: 1626 bp

Locus ID: 4355

UniProt ID: [Q14168](#)

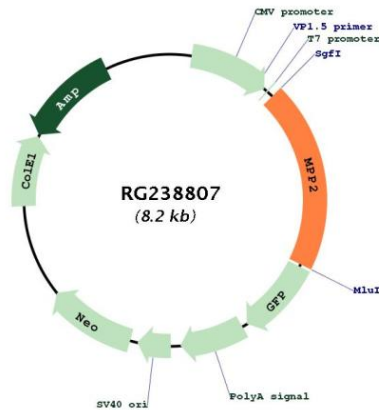
Cytogenetics: 17q21.31

Protein Families: Druggable Genome

MW: 61 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 RG238807