

## Product datasheet for **RG239036**

### **MPP2 (NM\_001278370) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278370) 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:**

>RG239036 representing NM\_001278370.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGTTGGGCTCCACCTCCCAGGTGGCCAGAATCTGAGATCCAGACTGTCTGAGGATCCTAAAT
GGAAATGGAAGATTTGATGTGGTCTGATGGAGGAGAGACGTTTCAGAGCCCTTGCTCCTTCACCATG
CCGGTTGCCGCCCAACTCTGAAACTGCCATGCAGCAAGTCTGGACAACCTGGGATCCCTCCCCAGT
GCCACGGGGGCTGCAGAGCTGGACCTGATCTTCTTCGAGGCATTATGGAAGTCCCATAGTAAGATCC
CTGGCCAAGGCCATGAGAGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTG
GTGCAGGAGATCTGCGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCAC
ATCCTCCAGGAGCCCACTTCCAGTCCCTCTGGAGACGCAGACTCTGTGGCTCAAAGACCTATGAG
ACACCACCCCGACCCCTGGCTGGACCCTACATTCAGCAACCAGCCTGTACCTCCCGATGCTGTGCGC
ATGGTGGGCATCCGAAGACAGCCGGAGAACATCTGGGTGAACGTTCCGCGTGGAGGGCGGCGAGCTG
GTGATCGCGCGCATTCTGCATGGGGCATGGTGGCTCAACAAGGCTGCTGCATGTGGGTGACATCATC
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GCCGGGACTTGCTCCAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTGGAAGGG
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GAGCGGGAAGGTCAAGGTTACAGCTTTGTGCCGTGGGAGATGGAGGCTGACGTCCGTGCTGGGCGC
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GCTGCTGGGAAGGTGTCGTGCTGGATGTCAACCCCGAGCGGTGAAGGTGCTACGAACGGCCGAGTTT
GTCCCTTACGTGGTGTTCATCGAGGCCCGAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTG
GAGAGTGAATATCCACCAAGCAGCTCACGGAGGGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGC
ATCCAGCGGGGCTACGGGCACTACTTTGACCTCTGCTGGTCAATAGCAACCTGGAGAGGACCTCCGC
GAGCTCCAGACAGCCATGGAGAAGTACGGACAGAGCCCGAGTGGGTGCCTGTCAGCTGGGTGTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

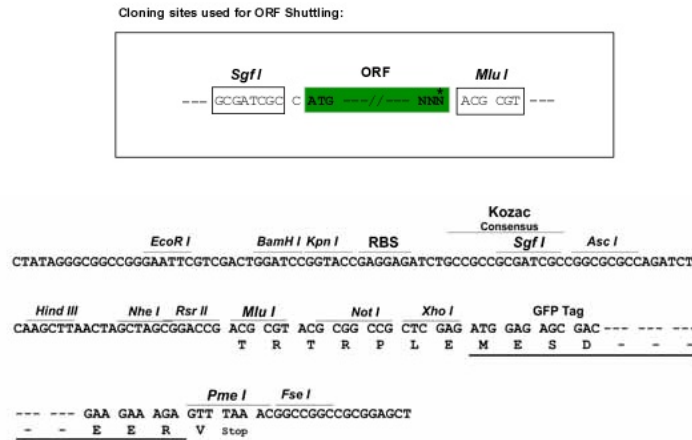
**Protein Sequence:**

>Peptide sequence encoded by RG239036  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSWAPPPVQVQNLRSQTVLRILNMGEDLMWVAMEERRFRALASFMPVAATNSETAMQVLDNLGSLPS
ATGAAELDLIFLRGIMESPIVRS�AKAHERLEETKLEAVRDNNLELVQELRLDLAQLAEQSSTAELAH
ILQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRMVGIRKTAGEHLGVTFRVEGGEL
VIARILHGGMVAQQLLHVGDIIKEVNGQPVGSDPRALQELLRNASGSVILKILPSYQEPHLPRQVFK
CHFDDYDPAKSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQELLEKRAFVKRDL
ELTPNSGTLCGSLSGKKKRMYYLTTKNAEFDRELLIYEEVARMPPFRKTLVLIGAQVGRSLKNK
LIMWDPDRYGTTPYTSRRPKDSEREGQYFVSRGEMEADVRAGRYLEHGEYEGNLYGTRIDSIRGVV
AAGKVCVLDVNPQAVKVLRTAEFVPYVVFIEAPDFETLRAMNRAALESISTKQLTEADLRRTVEESSR
IQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEPQWVPVSWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001278370

**ORF Size:** 1791 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\\_001278370.1](#), [NP\\_001265299.1](#)

**RefSeq Size:** 4346 bp

**RefSeq ORF:** 1794 bp

**Locus ID:** 4355

**UniProt ID:** [Q14168](#)

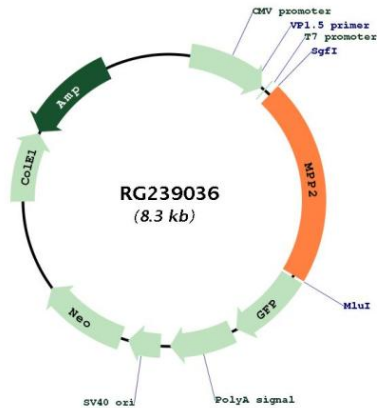
**Cytogenetics:** 17q21.31

**Protein Families:** Druggable Genome

**MW:** 67.3 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 RG239036