

## Product datasheet for **RG238808**

### **MPP2 (NM\_001278375) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278375) 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:**

>RG238808 representing NM\_001278375.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGCAAGTCCTGGACAACCTGGGATCCCTCCCAGTGCCACGGGGGCTGCAGAGCTGGACCTGATC
TTCCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCCATGAGAGGCTGGAGGAG
ACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCCTGCCGGACCTGGCGCAG
CTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCACATCCTCCAGGAGCCCCACTTCCAGTCCCTC
CTGGAGACGCACGACTCTGTGGCCTCAAAGACCTATGAGACACCACCCCCAGCCCTGGCCTGGACCCT
ACATTCAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAGCCGGAGAA
CATCTGGGTGTAACGTTCCGCGTGGAGGGCGCGAGCTGGTGATCGCGGCATTCTGCATGGGGCATG
GTGGCTCAACAAGCCTGCTGCATGTGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGGGCAGT
GACCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCAAGATCCTGCCAGC
TACCAGGAGCCCCATCTGCCCGCCAGGATTTTGTGAAATGTCACCTTTGACTATGACCCGGCCCGAGAC
AGCCTCATCCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGACTTGTCTCAGATCGTAAACCAG
GATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGTGTGGGCTCATTCCCAGCCAGCTG
CTGGAGGAGAAGCGAAAGCATTGTCAAGAGGGACCTGGAGCTGACACCAAACCTCAGGGACCCTATGC
GGCAGCCTTTTCAGGAAAGAAAAGAAGCGAATGATGATTTGACCACCAAGAATGCAGAGTTTGACCGT
CATGAGCTGCTCATTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGAAAACCTGGTACTGATT
GGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAAACAGCTCATCATGTGGGATCCAGATCGCTATGGC
ACCACGGTGCCCTACACCTCCCGCGCGCGAAAGACTCAGAGCGGAAGGTGAGGGTTACAGCTTTGTG
TCCCGTGGGAGATGGAGGTGACGTCCGTGCTGGGCGTACTGGAGCATGGCGAATACGAGGGCAAC
CTGTATGGCACACGTATTGACTCCATCCCGGGCGTGGTCCGTGCTGGGAAGGTGTGCGTGTGGATGTC
AACCCCAAGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTACGTGGTGTTCATCGAGGCCCA
GACTTCGAGACCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGAATATCCACCAAGCAGCTCAGC
GAGGGCGACTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGCTACGGGCACTACTTTGAC
CTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGG
ACAGAGCCCCAGTGGGTGCCTGTCAGCTGGGTGTAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238808  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLELVQEILRDLAQ
LAEQSSTAAELAHILQEPHFQSLLETHDSVASKTYETPPPSPGLDPTFSNQVPPDAVRMVGIRKTAGE
HLGVTFRVEGGELVIARILHGGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNAGSVILKILPS
YQEPHLPRQVFKCHFVDYDPAKSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQL
LEEKRFKAFVKRDLELTPNSGTLGSLSGKKKRMMLYTTKNAEFDRELLIYEEVARMPPFRKTLVLI
GAQGVGRRSLKNKLIMWDPDRYGTTPYTSRRPKDSEREGQGYSFVSRGEMEADVRAGRYLEHGEYEGN
LYGTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALESISTKQLT
EADLRRTVESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTPEQWVPVSWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

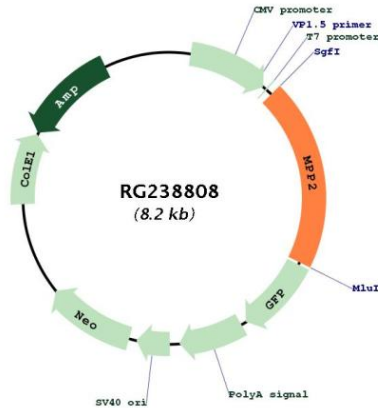
Sgfl-MluI



**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 RG238808