

Product datasheet for **RG238930**

MPP2 (NM_001278376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278376) 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:

>RG238930 representing NM_001278376.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCAGGCAGCCAGGCAGCGGGTCTCCTTGGAGGGTATATCCCTGGAGTCTTCTGAGGAAGCGGAG
CTCCAGAGGGAAGCCATGCAGCAAGTCTGGACAACCTGGGATCCCTCCCAGTGCCACGGGGCTGCA
GAGCTGGACCTGATCTTCCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCAT
GAGAGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGACGAGATCTTG
CGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCACATCCTCCAGGAGCCC
CACTTCCAGTCCCTCCTGGAGACGCAGACTCTGTGGCCTCAAAGACCTATGAGACACCACCCCCAGC
CCTGGCCTGGACCCTACATTAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGC
AAGACAGCCGGAGAACATCTGGGTGTACGTTCCGCGTGGAGGGCGGCGAGCTGGTGATCGCGGCATT
CTGCATGGGGCATGGTGGCTCAACAAGGCCTGCTGCATGTGGGTGACATCATCAAGGAGGTGAACGGG
CAGCCAGTGGGCAGTGACCCCCGCGCACTGCAGGAGCTCTGCGCAATGCCAGTGGCAGTGTATCCTC
AAGATCCTGCCAGCTACCAGGAGCCCCATCTGCCCGCCAGGATTTTGTGAAATGTCACTTTGACTAT
GACCCGGCCCCGAGACAGCCTCATCCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGACTTGCTC
CAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTCAAGGGGGCAGTGTGGGCTC
ATCCCAGCCAGCTGCTGGAGGAGAAGCGGAAAGCATTGTCAAGAGGGACCTGGAGTGACACCAAAAC
TCAGGGACCCTATGCGGCAGCCTTTAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACCAAGAAAT
GCAGAGTTTGACCGTATGAGCTGCTCATTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGGAAA
ACCTGGTACTGATTGGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGGAT
CCAGATCGCTATGGCACCACGGTCCCTACACCTCCCGCGGCGGAAAGACTCAGAGCGGGAAGTACAG
GGTTACAGCTTTGTGCCGTGGGGAGATGGAGGCTGACGTCCGTGCTGGGCGCTACCTGGAGCATGGC
GAATACGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGTGGTGTGGGAAGGTG
TGCGTGTGGATGTCAACCCCCAGGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTG
TTCATCGAGGCCCCAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGGAAATATCC
ACCAAGCAGCTCACGGAGGCGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGCTAC
GGGCACTACTTTGACCTGCTGCTGGTCAATAGCAACCTGGAGAGGACCTCCGCGAGCTCCAGACAGCC
ATGGAGAAGCTACGGACAGAGCCCCAGTGGTGCCTGTCAGCTGGGTGTAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238930
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAGSPSGVLSLEGISLESSEEAEIQREAMQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAH
ERLEETKLEAVRDNNLELVQEILRDLAQLAEQSSTAELAHILQEPHFQSLLETHDSVASKTYETPPPS
PGLDPTFSNQPVPPDAVRMVGIRKTAGEHLGVTFRVEGGELVIARILHGMVAQQGLLHVGDIIKEVNG
QPVGSDPRALQELLRNASGSVILKILPSYQEPHLPRQVFVKCHFVDYDPARDSLIPCKEAGLRFNAGDLL
QIVNQDDANWQACHVEGGSAGLIPSQLLEEKRAFVKRDLELTPNSGLTCGSLSGKMKRMMYLTKN
AEFDRHELLIYEEVARMPPFRKTLVLIGAQGVRRSLKNKLIMWDPDRYGTTPYTSRRPKDSEREGQ
GYSFVSRGEMADVRAGRYLEHGEYEGNLYGTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVV
FIEAPDFETLRAMNRAALESISTKQLTEADLRRTVEESSRIQRGYGHYFDLCLVNSNLERTFRELQTA
MEKLRTEPQWVPVSWVY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

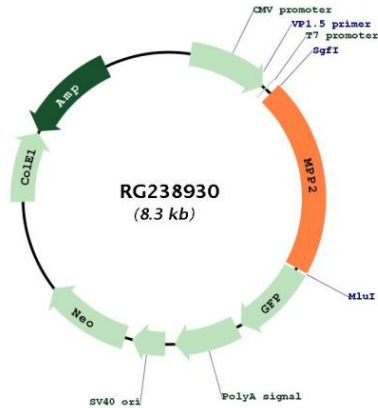
SgfI-MluI

Cloning Scheme:


- ACCN:** NM_001278376
- ORF Size:** 1707 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_001278376.3](#)
- RefSeq Size:** 4275 bp
- RefSeq ORF:** 1710 bp
- Locus ID:** 4355
- UniProt ID:** [Q14168](#)
- Cytogenetics:** 17q21.31
- Protein Families:** Druggable Genome
- MW:** 63.8 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 RG238930