

Product datasheet for **RG207011**

MPP2 (NM_005374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_005374) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG207011 representing NM_005374
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGTTGCCACCAACTCTGAAACTGCCATGCAGCAAGTCTGGACAACCTGGGATCCCTCCCCA
 GTGCCACGGGGCTGCAGAGCTGGACCTGATCTTCCTTCGAGGCATTATGAAAAGTCCCATAGTAAGATC
 CCTGGCCAAGGCCCATGAGAGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTG
 GTGCAGGAGATCTGCGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCACA
 TCCTCCAGGAGCCCCACTTCCAGTCCCTCTGGAGACGCAGCTCTGTGGCCTCAAAGACCTATGAGAC
 ACCACCCCCAGCCCTGGCCTGGACCCTACGTTACGAACCAGCCTGTACCTCCCAGTGTGTGCGCATG
 GTGGGCATCCGCAAGACAGCCGGAGAACATCTGGGTGTAACGTTCCGCGTGGAGGGCGCGAGCTGGTGA
 TCGCGCGCATTTCATGGGGCATGGTGGCTCAGCAAGGCCCTGTGCATGTGGGTGACATCATCAAGGA
 GGTGAACGGGCAGCCAGTGGGCAGTGACCCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGT
 GCATCTCAAGATCCTGCCAGCTACCAGGAGCCCCATCTGCCCGCCAGGTATTTGTGAAATGTCACT
 TTGACTATGACCCGGCCCGAGACAGCCTCATCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGA
 CTTGCTCCAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTGCAAGGGGGCAGTGT
 GGGCTCATTCCCAGCCAGCTGCTGGAGGAGAAGCGGAAAGCATTGTCAAGAGGGACCTGGAGCTGACAC
 CAAACTCAGGGACCCTATGCGGCAGCCTTTCAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACAA
 GAATGCAGAGTTTGACCGTCATGAGCTGCTCATTTATGAGGAGGTGGCCCGCATGCCCGGTTCCGCCGG
 AAAACCTGGTACTGATTGGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGG
 ATCCAGATCGCTATGCCACCACGGTCCCTACACCTCCCGCGGCCGAAAGACTCAGAGCGGAAGTCA
 GGGTTACAGCTTTGTGTCCCGTGGGGAGATGGAGGCTGACGTCCGTGCTGGGCGCTACCTGGAGCATGGC
 GAATACGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGTTCGCTGCTGGGAAGTGT
 GCGTGTGGATGTCAACCCCGAGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTACGTGGTGT
 CATCGAGGCCAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGAATATCCACC
 AAGCAGCTCAGGAGGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGGCTACGGGC
 ACTACTTTGACCTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTTCCCGAGCTCCAGACAGCCATGGA
 GAAGCTACGGACAGAGCCCCAGTGGGTGCCTGTCAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207011 representing NM_005374
 Red=Cloning site Green=Tags(s)

MPVAATNSETAMQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLEL
 VQEILRDLAQLAEQSSTAELAHILQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRM
 VGIRKTAGEHLGVTRVEGGELVIARILHGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNASGS
 VILKILPSYQEPHLPRQVFKCHFDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGS
 GLIPSQLEEKRAFVKRDLELTPNSGLCGSLSGKKKKRMYLTTKNAEFDREHELLIYEEVARMPPFR
 KTLVLIQAQGVGRRSLKNKLI MWDPDRYGTTPVYTSRRPKDSEREGQYSFVSRGEMEADVRAGRYLEHG
 EYEGNLVYTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALESIST
 KQLTEADLRRTVEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTPEQWVPSWVY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005374

ORF Size: 1656 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005374.2](#)

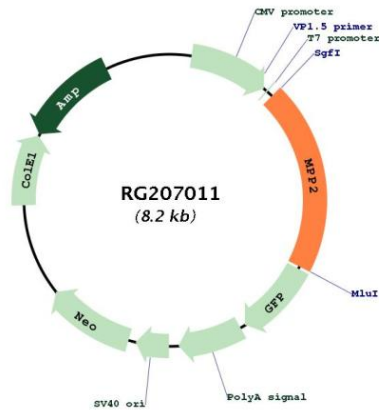
RefSeq Size: 4412 bp

RefSeq ORF: 1659 bp

Locus ID: 4355

UniProt ID: [Q14168](#)
Cytogenetics: 17q21.31
Domains: SH3, PDZ, L27, Guanylate_kin, GuKc
Protein Families: Druggable Genome
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 RG207011