

Product datasheet for **RC238806**

MPP2 (NM_001278371) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278371) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPP2
Synonyms:	DLG2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238806 representing NM_001278371
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCAAGTCCTGGACAACCTGGGATCCCTCCCAGTGCCACGGGGGCTGCAGAGCTGGACCTGATCT
 TCCTTCGAGGCATTATGGAAGTCCCATAGTAAGATCCCTGGCCAAGGCCATGAGAGGCTGGAGGAGAC
 GAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCCTGCGGGACCTGGCGCAGCTG
 GCTGAGCAGAGCAGCACAGCCGCGAGCTGGCCACATCCTCCAGGAGCCCCACTTCCAGTCCCTCCTGG
 AGAGCAGCAGCTCTGTGGCCTCAAAGACCTATGAGACACCACCCCGAGCCCTGGCCTGGACCCTACATT
 CAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAGCCGGAGAACATCTG
 GGTGTAACGTTCCGCGTGGAGGGCGCGAGCTGGTGCATCGCGCATTCTGCATGGGGGCATGGTGGCTC
 AACAGGCCTGCTGCATGTGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGGGCAGTACCCCGG
 CGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCAAGATCCTGCCAGCTACCAGGAG
 CCCCATCTGCCCGCCAGGTATTTGTGAAATGTCACTTTGACTATGACCCGGCCCGAGACAGCCTCATCC
 CCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGACTTGCTCCAGATCGTAAACCAGGATGATGCCAA
 CTGGTGGCAGGCATGCCATGTGCAAGGGGGCAGTGTGGGCTCATTCCCAGCCAGCTGCTGGAGGAGAAG
 CGGAAAGCATTGTCAAGAGGGACCTGGAGCTGACACCAAACCTCAGGGACCCATGCGGCAGCCTTTGAG
 GAAAGAAAAAGAGCGAATGATGATATTTGACCACCAAGAATGCAGAGTTTGACCGTCATGAGCTGCTCAT
 TTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGAAAACCTGGTACTGATTGGGGCTCAGGGCGTG
 GGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGATCCAGATCGCTATGGCACCACGGTGGCCTACA
 CCTCCCGCGCGGAAAGACTCAGAGCGGGAAGTCAAGGTTACAGCTTTGTGTCCTCCGTTGGGAGATGGA
 GGCTGACGTCCTGCTGGGCGCTACCTGGAGCATGGCGAATACGAGGGCAACCTGTATGGCACACGTATT
 GACTCCATCCGGGGCGTGGTGGTGTGGGAAAGTGTGCGTGTGGATGTCAACCCCGAGCCGTGAAGG
 TGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTTCATCGAGGCCCGAGACTTCGAGACCCTGCGGGC
 CATGAACAGGGCTGCGTGGAGAGTGGAAATCCACCAAGCAGCTCACGGAGGGGACCTGAGACGGACA
 GTGGAGGAGAGCAGCCGATCCAGCGGGGCTACGGGCACTACTTTGACCTCTGCCTGGTCAATAGCAACC
 TGGAGAGGACCTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGGACAGAGCCCCAGTGGGTGCCTGT
 CAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238806 representing NM_001278371
 Red=Cloning site Green=Tags(s)

MQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLELVQEILRDLAQL
 AEQSSTAAELAHLQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRMVGIRKTAGEHL
 GVTFRVEGGELVIARILHGMVAQQQLLHVGDIIKEVNGQPVGSDPRALQELLRNASGSVILKILPSYQE
 PHLPRQVFKCHFQYDIPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQLEEK
 RKAFVKRDLELTPNSGTLGSLSGKKKRMMLTTKNAEFDRHELLIYEEVARMPPFRRKTLVLIQAQGV
 GRRSLKNKLI MWDPDRYGTTPYTSRRPKDSEREGQGYSFVSRGEMEADVVRAGRYLEHGEYEGNLVYTRI
 DSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALESISTKQLTEADLRRT
 VEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEPQWVPSWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001278371
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).
Reconstitution Method:	<ol style="list-style-type: none">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.
RefSeq:	NM_001278371.1 , NP_001265300.1
RefSeq Size:	4282 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]