

Product datasheet for **RC238807**

MPP2 (NM_001278373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278373) 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:

>RC238807 representing NM_001278373
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCAAGTCCTGGACAACCTGGGATCCCTCCCAGTGCCACGGGGGCTGCAGAGCTGGACCTGATCT
 TCCTTCGAGGCATTATGGAAGTCCCATAGTAAGATCCCTGGCCAAGGCCATGAGAGGCTGGAGGAGAC
 GAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCTGCGGGACCTGGCGAGCTG
 GCTGAGCAGAGCAGCACAGCCGCGAGCTGGCCACATCCTCCAGGAGCCCCACTTCCAGTCCCTCCTGG
 AGAGCAGCAGCTCTGTGGCCTCAAAGACCTATGAGACACCACCCCCAGCCCTGGCCTGGACCCTACATT
 CAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAGCCGGAGAACATCTG
 GGTGTAACGTTCCGCGTGGAGGGCGCGAGCTGGTGTGATCGCGCATTCTGCATGGGGGCATGGTGGCTC
 AACAGGCCTGCTGCATGTGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTGGGCAGTACCCCGG
 CGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTATCCTCAAGATCCTGCCAGCTACCAGGAG
 CCCCATCTGCCCGCCAGGTATTTGTGAAATGTCACTTTGACTATGACCCGGCCCGAGACAGCCTCATCC
 CCTGCAAGGAAGCAGGCCTGCGCTTCAACGCGGGGACTTGCTCCAGATCGTAAACCAGGATGATGCCAA
 CTGGTGGCAGGCATGCCATGTGCAAGGGGGCAGTGTGGGCTCATTCCCAGCCAGCTGCTGGAGGAGAAG
 CGGAAAGCATTGTCAAGAGGGACCTGGAGCTGACACCAAACCTCAGGGACCCATGCGGCAGCCTTTCAG
 GAAAGAAAAAGAGCGAATGATGATTTTACCACCAAGAATGCAGAGTTTGACCGTCATGAGCTGCTCAT
 TTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGAAAACCTGGTACTGATTGGGGCTCAGGGCGTG
 GGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGATCCAGATCGCTATGGCACCACGGTGGCCTACA
 CCTCCCGCGCCGAAAGACTCAGAGCGGGAAGTCAAGGTTACAGCTTTGTGTCCTCCGTTGGGAGATGGA
 GGCTGACGTCCTGCTGGGCGCTACCTGGAGCATGGCGAATACGAGGGCAACCTGTATGGCACACGTATT
 GACTCCATCCGGGGCGTGGTGTGCTGGGAAGGTGTGCGTGTGGATGTCAACCCCGAGCGGTGAAGG
 TGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTTCATCGAGGCCCGAGACTTCGAGACCCTGCGGGC
 CATGAACAGGGCTGCGTGGAGAGTGGAAATCCACCAAGCAGCTCACGGAGGCGGACCTGAGACGGACA
 GTGGAGGAGAGCAGCCGATCCAGCGGGGCTACGGGCACTACTTTGACCTCTGCCTGGTCAATAGCAACC
 TGGAGAGGACCTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGGACAGAGCCCCAGTGGGTGCCTGT
 CAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238807 representing NM_001278373
 Red=Cloning site Green=Tags(s)

MQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSALAKAHERLEETKLEAVRDNNLELVQEILRDLAQL
 AEQSSTAAELAHILQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRMVGIRKTAGEHL
 GVTFRVEGGELVIARILHGMVAQQQLLHVGDIIKEVNGQPVGSDPRALQELLRNASGSVILKILPSYQE
 PHLPRQVFKCHFQYDYPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQLEEK
 RKAFVKRDLELTPNSGTLGSLSGKKKRMMLTTKNAEFDRHELLIYEEVARMPPFRRKTLVLIQAQGV
 GRRSLKNKLI MWDPDRYGTTPYTSRRPKDSEREGQGYSFVSRGEMADVVRAGRYLEHGEYEGNLVYTRI
 DSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALESISTKQLTEADLRRT
 VEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEPQWVPSWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

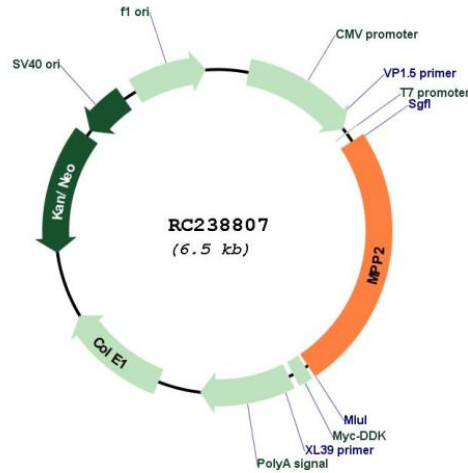
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001278373
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_001278373.2
RefSeq Size:	4581 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]