

Product datasheet for **RC239036**

MPP2 (NM_001278370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278370) 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:

>RC239036 representing NM_001278370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTGGGCTCCACCTCCCCAGGTGGGCCAGAATCTGAGATCCAGACTGTCCTGAGGATCCTAAATG
 GAATGGAAGATTTGATGTGGGTCGCTATGGAGGAGAGACGTTTCAGAGCCCTTGCCCTCCTCACCATGCC
 GGTGGCCGCCACCAACTCTGAAACTGCCATGCAGCAAGTCTGGACAACCTGGGATCCCTCCCCAGTGCC
 ACGGGGGCTGCAGAGCTGGACCTGATCTTCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATCCCTGG
 CCAAGGCCATGAGAGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCA
 GGAGATCTGCGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCACATCCTC
 CAGGAGCCCCACTTCCAGTCCCTCTGGAGACGCAGACTCTGTGGCCTCAAAGACCTATGAGACACCAC
 CCCCCAGCCCTGGCCTGACCTACATTAGCAACCAGCCTGTACCTCCCGATGTGTGCGCATGGTGGG
 CATCCGAAGACAGCCGGAGAACATCTGGGTGTAACTTCGCGTGGAGGGCGGGCAGCTGGTGATCGCG
 CGCATTCTGCATGGGGCATGGTGGCTCAACAAGGCCCTGCTGCATGTGGGTGACATCAAGGAGGTGA
 ACGGGCAGCCAGTGGGCAGTGACCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTGAT
 CCTCAAGATCCTGCCAGCTACCAGGAGCCCCATCTGCCCGCCAGGTATTTGTGAAATGTCACTTTGAC
 TATGACCCGGCCCGAGACAGCCTCATCCCTGCAAGGAAGCAGGCTGCGCTTCAACGCCGGGACTTGC
 TCCAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGTGTGGGCT
 CATTCCAGCCAGCTGCTGGAGGAGAAGCGAAAGCATTGTCAAGAGGGACCTGGAGCTGACACCAAAC
 TCAGGGACCCTATGCGGCAGCCTTTAGGAAAGAAAAAGAAGCGAATGATGATTTGACCACCAAGATG
 CAGATTTGACCGTCATGAGCTGCTCATTATGAGGAGGTGGCCCGCATGCCCCGTTCCGCCGAAAAAC
 CCTGGTACTGATTGGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGATCCA
 GATCGCTATGGCACCACGGTGCCTACACCTCCCGCGGGCGAAAGACTCAGAGCGGGAAGTCAAGGTT
 ACAGCTTTGTGTCCCGTGGGAGATGGAGGCTGACGTCCGTGCTGGGCGCTACCTGGAGCATGGCGAATA
 CGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGTGCCTGCTGGGAAGGTGTGCGTG
 CTGGATGTCAACCCAGGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTTCATCG
 AGGCCCCAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGGAAATCCACCAAGCA
 GCTCACGGAGGCGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGGCTACGGGCACTAC
 TTTGACCTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGAGAAGC
 TACGGACAGAGCCCCAGTGGGTGCTGTGACTGGGTGTAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239036 representing NM_001278370
 Red=Cloning site Green=Tags(s)

MSWAPPPQVQNLRSQTVLRILNMGEDLMWVAMEERRFRALASFMPVAATNSETAMQVLDNLGSLPSA
 TGAELDLIFLRGIMESPIVRS�AKAHERLEETKLEAVRDNNLELVQEILRDLAQLAEQSSAAELAHIL
 QEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRMVGIRKTAGEHLGVTFRVEGGELVIA
 RILHGGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNASGSVILKILPSYQEPHLPRQVFVKCHFD
 YDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSAGLIPSQLEEKRAFVKRDLELTPN
 SGTLCGSLSGKKKRMMLYTTKNAEFDRELLIYEEVARMPPFRKTLVLIGAQQVGRSLKNKLIMWDP
 DRYGTTVPYTSRRPKDSEREGQYSFVSRGEMEADVRAGRYLEHGEYEGNLYGTRIDSIRGVVAAGKVCV
 LDVNPQAVKVLRTAEFVPPYVVFIEAPDFETLRAMNRAALESISTKQLTEADLRRTVEESSRIQRGYGHY
 FDLCLVNSNLERTFRELQTAMEKLRTEPQWVPSVWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_001278370.1 , NP_001265299.1
RefSeq Size:	4346 bp
RefSeq ORF:	1794 bp
Locus ID:	4355
UniProt ID:	Q14168
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome
MW:	67.3 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]