OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC207011

MPP2 (NM_005374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_005374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPP2
Synonyms:	DLG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC207011 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGTTGCCGCCACCAACTCTGAAACTGCCATGCAGCAAGTCCTGGACAACTTGGGATCCCTCCCCA
GTGCCACGGGGGCTGCAGAGCTGGACCTGATCTTCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATC
CCTGGCCAAGGCCCATGAGAGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTG
GTGCAGGAGATCCTGCGGGACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCCACA
TCCTCCAGGAGCCCCACTTCCAGTCCCTCCTGGAGACGCACGACTCTGTGGCCTCAAAGACCTATGAGAC
ACCACCCCCCAGCCCTGGCCTGGACCCTACGTTCAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATG
GTGGGCATCCGCAAGACAGCCGGAGAACATCTGGGTGTAACGTTCCGCGTGGAGGGCGGCGAGCTGGTGA
TCGCGCGCATTCTGCATGGGGGCATGGTGGCTCAGCAAGGCCTGCTGCATGTGGGTGACATCATCAAGGA
GGTGAACGGGCAGCCAGTGGGCAGTGACCCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGT
GTCATCCTCAAGATCCTGCCCAGCTACCAGGAGCCCCATCTGCCCCGCCAGGTATTTGTGAAATGTCACT
TTGACTATGACCCGGCCCGAGACAGCCTCATCCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGGA
CTTGCTCCAGATCGTAAACCAGGATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGTGCT
GGGCTCATTCCCAGCCAGCTGCTGGAGGAGAAGCGGAAAGCATTTGTCAAGAGGGACCTGGAGCTGACAC
CAAACTCAGGGACCCTATGCGGCAGCCTTTCAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACCAA
GAATGCAGAGTTTGACCGTCATGAGCTGCTCATTTATGAGGAGGTGGCCCGCATGCCCCCGTTCCGCCGG
AAAACCCTGGTACTGATTGGGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGG
ATCCAGATCGCTATGGCACCACGGTGCCCTACACCTCCCGGCGGCCGAAAGACTCAGAGCGGGAAGGTCA
GGGTTACAGCTTTGTGTCCCGTGGGGAGATGGAGGCTGACGTCCGTGCTGGGCGCTACCTGGAGCATGGC
GAATACGAGGGCAACCTGTATGGCACACGTATTGACTCCATCCGGGGCGTGGTCGCTGCTGGGAAGGTGT
GCGTGCTGGATGTCAACCCCCAGGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTT
CATCGAGGCCCCAGACTTCGAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGGAATATCCACC
AAGCAGCTCACGGAGGCGGACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGGCTACGGGC
ACTACTTTGACCTCTGCCTGGTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGA
GAAGCTACGGACAGAGCCCCAGTGGGTGCCTGTCAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207011 protein sequence
Red=Cloning site Green=Tags(s)

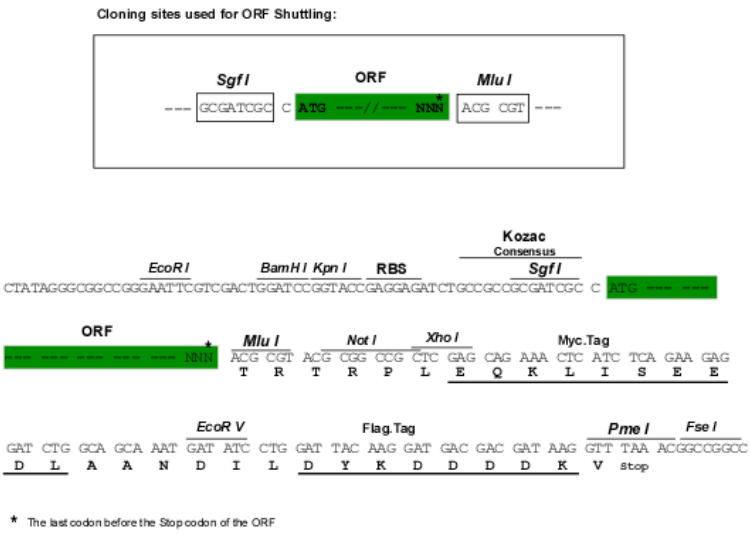
MPVAATNSETAMQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLEL
VQEILRDLAQLAEQSSTAAELAHILQEPHFQSLLETHDSVASKTYETPPPSPGLDPTFSNQPVPPDAVRM
VGIRKTAGEHLGVTFRVEGGELVIARILHGGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRNASGS
VILKILPSYQEPHLPRQVFVKCHFDYDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSA
GLIPSQLLEEKRKAFVKRDLELTPNSGTLCGSLSGKKKKRMMYLTTKNAEFDRHELLIYEEVARMPPFRR
KTLVLIGAQGVGRRSLKNKLIMWDPDRYGTTVPYTSRRPKDSEREGQGYSFVSRGEMEADVRAGRYLEHG
EYEGNLYGTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVPYVVFIEAPDFETLRAMNRAALESGIST
KQLTEADLRRTVEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEPQWVPVSWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6333_f03.zip

Restriction Sites: SgfI-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.

RefSeq: NM_005374.2

RefSeq Size: 4645 bp

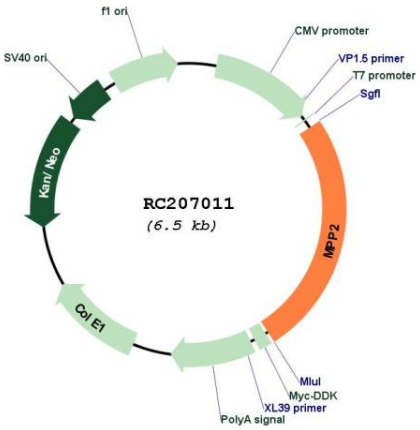
RefSeq ORF: 1659 bp

Locus ID: 4355

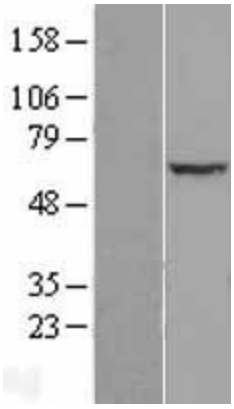
UniProt ID: Q14168

Cytogenetics:	17q21.31
Domains:	SH3, PDZ, L27, Guanylate_kin, GuKc
Protein Families:	Druggable Genome
MW:	61.6 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]

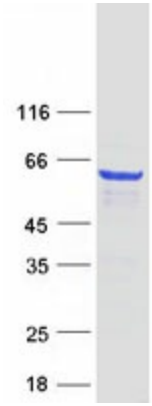
Product images:



Circular map for RC207011



Western blot validation of overexpression lysate (Cat# [LY417352]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207011 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MPP2 protein (Cat# [TP307011]). The protein was produced from HEK293T cells transfected with MPP2 cDNA clone (Cat# RC207011) using MegaTran 2.0 (Cat# [TT210002]).