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Product datasheet for RC238930

MPP2 (NM_001278376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPP2 (NM_001278376) 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)

ORF Nucleotide Sequence:

>RC238930 representing NM_001278376
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGCAGCCCAGGCAGCGGGGTCTCCTTGGAGGGTATATCCCTGGAGTCTTCTGAGGAAGCGGAGC
TCCAGAGGGAAGCCATGCAGCAAGTCCTGGACAACTTGGGATCCCTCCCCAGTGCCACGGGGGCTGCAGA
GCTGGACCTGATCTTCCTTCGAGGCATTATGGAAAGTCCCATAGTAAGATCCCTGGCCAAGGCCCATGAG
AGGCTGGAGGAGACGAAGCTGGAGGCCGTGAGAGACAACAACCTGGAGCTGGTGCAGGAGATCCTGCGGG
ACCTGGCGCAGCTGGCTGAGCAGAGCAGCACAGCCGCCGAGCTGGCCCACATCCTCCAGGAGCCCCACTT
CCAGTCCCTCCTGGAGACGCACGACTCTGTGGCCTCAAAGACCTATGAGACACCACCCCCCAGCCCTGGC
CTGGACCCTACATTCAGCAACCAGCCTGTACCTCCCGATGCTGTGCGCATGGTGGGCATCCGCAAGACAG
CCGGAGAACATCTGGGTGTAACGTTCCGCGTGGAGGGCGGCGAGCTGGTGATCGCGCGCATTCTGCATGG
GGGCATGGTGGCTCAACAAGGCCTGCTGCATGTGGGTGACATCATCAAGGAGGTGAACGGGCAGCCAGTG
GGCAGTGACCCCCGCGCACTGCAGGAGCTCCTGCGCAATGCCAGTGGCAGTGTCATCCTCAAGATCCTGC
CCAGCTACCAGGAGCCCCATCTGCCCCGCCAGGTATTTGTGAAATGTCACTTTGACTATGACCCGGCCCG
AGACAGCCTCATCCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGGGACTTGCTCCAGATCGTAAAC
CAGGATGATGCCAACTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGTGCTGGGCTCATTCCCAGCCAGC
TGCTGGAGGAGAAGCGGAAAGCATTTGTCAAGAGGGACCTGGAGCTGACACCAAACTCAGGGACCCTATG
CGGCAGCCTTTCAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACCAAGAATGCAGAGTTTGACCGT
CATGAGCTGCTCATTTATGAGGAGGTGGCCCGCATGCCCCCGTTCCGCCGGAAAACCCTGGTACTGATTG
GGGCTCAGGGCGTGGGACGGCGCAGCCTGAAGAACAAGCTCATCATGTGGGATCCAGATCGCTATGGCAC
CACGGTGCCCTACACCTCCCGGCGGCCGAAAGACTCAGAGCGGGAAGGTCAGGGTTACAGCTTTGTGTCC
CGTGGGGAGATGGAGGCTGACGTCCGTGCTGGGCGCTACCTGGAGCATGGCGAATACGAGGGCAACCTGT
ATGGCACACGTATTGACTCCATCCGGGGCGTGGTCGCTGCTGGGAAGGTGTGCGTGCTGGATGTCAACCC
CCAGGCGGTGAAGGTGCTACGAACGGCCGAGTTTGTCCCTTACGTGGTGTTCATCGAGGCCCCAGACTTC
GAGACCCTGCGGGCCATGAACAGGGCTGCGCTGGAGAGTGGAATATCCACCAAGCAGCTCACGGAGGCGG
ACCTGAGACGGACAGTGGAGGAGAGCAGCCGCATCCAGCGGGGCTACGGGCACTACTTTGACCTCTGCCT
GGTCAATAGCAACCTGGAGAGGACCTTCCGCGAGCTCCAGACAGCCATGGAGAAGCTACGGACAGAGCCC
CAGTGGGTGCCTGTCAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

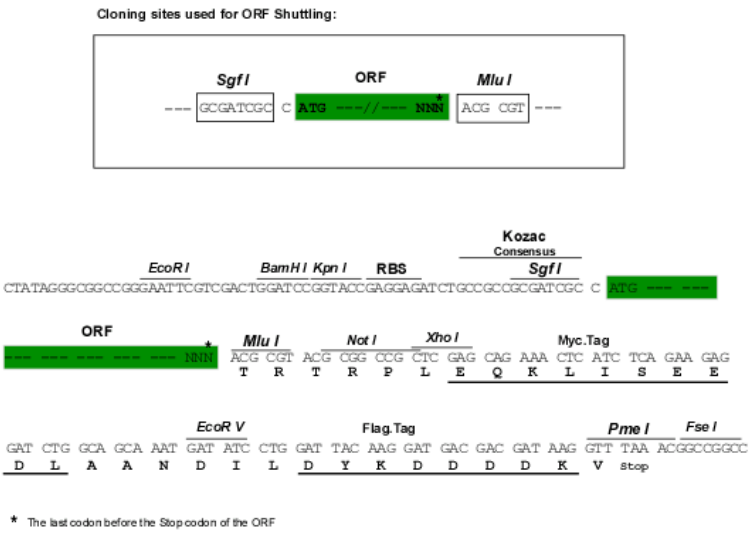
>RC238930 representing NM_001278376
Red=Cloning site Green=Tags(s)

MAGSPGSGVSLEGISLESSEEAELQREAMQQVLDNLGSLPSATGAAELDLIFLRGIMESPIVRSLAKAHE
RLEETKLEAVRDNNLELVQEILRDLAQLAEQSSTAAELAHILQEPHFQSLLETHDSVASKTYETPPPSPG
LDPTFSNQPVPPDAVRMVGIRKTAGEHLGVTFRVEGGELVIARILHGGMVAQQGLLHVGDIIKEVNGQPV
GSDPRALQELLRNASGSVILKILPSYQEPHLPRQVFVKCHFDYDPARDSLIPCKEAGLRFNAGDLLQIVN
QDDANWWQACHVEGGSAGLIPSQLLEEKRKAFVKRDLELTPNSGTLCGSLSGKKKKRMMYLTTKNAEFDR
HELLIYEEVARMPPFRRKTLVLIGAQGVGRRSLKNKLIMWDPDRYGTTVPYTSRRPKDSEREGQGYSFVS
RGEMEADVRAGRYLEHGEYEGNLYGTRIDSIRGVVAAGKVCVLDVNPQAVKVLRTAEFVPYVVFIEAPDF
ETLRAMNRAALESGISTKQLTEADLRRTVEESSRIQRGYGHYFDLCLVNSNLERTFRELQTAMEKLRTEP
QWVPVSWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278376

ORF Size: 1707 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_001278376.3

RefSeq Size: 4275 bp

RefSeq ORF: 1710 bp

Locus ID: 4355

UniProt ID: Q14168

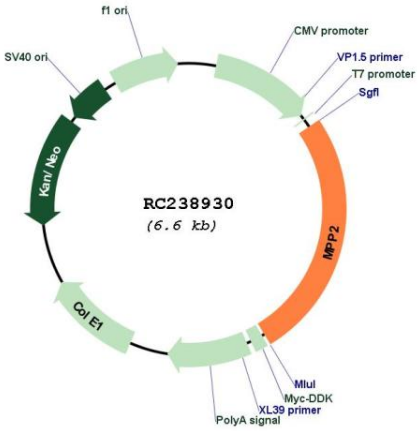
Cytogenetics: 17q21.31

Protein Families: Druggable Genome

MW: 63.8 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 RC238930