

Product datasheet for **RR216896**

Mpp2 (NM_053513) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp2 (NM_053513) Rat 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)



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ORF Nucleotide Sequence:

>RR216896 representing NM_053513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTTGCTGCCACGAAGCTCTGAGTCTGCTATGCAGCAAGTCTTGGACAACCTGGGATCCCTGCCCA
 ATGCCACTGGGGCTGCGGAAGCTGGACCTGATCTTCCTTCGAGGGATAATGGAAAGTCCGATAGTCAGATC
 CCTGGCCAAGGCCACGAGCGGCTGGAGGAGACCAAGCTGGAGGCCGTTCCGGATAACAACCTGGAGCTG
 GTGCAGGAGATCCTTCGGGACCTGGCAGAGCTGGCAGAGCAGAGTAGCACGGCTGCGGAGCTGGCAGCA
 TCCTCCAAGAGCCTCACTCCAGTCCCTCTGGAGACACATGACTCAGTGGCCTCAAAGACCTATGAGAC
 ACCACCCCCAGTCCAGGTCTAGATCCCACGTTTAGCAACCAGCCGGTACCTCCTGATGCTGTGCGCATG
 GTGGGCATTTCGAAAGACCGCAGGAGAACATCTGGGTGTGACATCCGAGTGGAGGGTGGTGGAGCTGGTGA
 TTGCCCGAATTCTGCACGGGGCATGGTGGCGCAGCAAGGTCTGCTGCATGTTGGTGACATCATCAAGGA
 AGTGAATGGGCAGCCAGTGGGCAGCGATCCCCGGGCACTGCAGGAACTCCTACGCAGCGCCAGTGGTAGC
 GTCATCCTCAAGATCCTGCCAGTTACCAGGAACCCACCTGCCCGACAGGTGTTTGTAAATGCCACT
 TCGATTACGACCCTGCCCGGACAGTCTCATCCCTGCAAGGAAGCAGGCCTGCGCTTCAACGCCGGAGA
 CTTGCTCCAGATTGTAACCAAGATGATGCCAATTGGTGGCAGGCATGCCATGTCGAAGGGGGCAGCGCA
 GGACTCATCCCCAGCCAGTTGTTGGAGGAGAAGCGGAAAGCATTGTCAAACGGGACCTGGAAGTACCC
 CGACCTCAGGGACCCTGTGCGGCAGCCTTTAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACAA
 GAATGCAGAGTTTGACCGCCATGAGCTGCTTATCTATGAGGAGGTGGCCCGCATGCCCCATTCCGTAGG
 AAAACCTGGTGTGATTGGCGCGCAGGGTGTGGGCCGGCAAGCCTGAAAAACAAGCTCATTCTGTGGG
 ATCCAGACCGCTACGGCACACAGTGCCTACACATCCCGAGGCCAAGGACTCAGAACGGGAGGGGCA
 GGGCTACAGCTTTGTGTCTCGTGGGAGATGGAGGCTGACATCCGCGCCGGGCGCTACTTGGAGCATGGC
 GAGTATGAGGGCAACCTGTACGGCACGCGGATCGACTCCATCCGGGGCGTTGTTGCCTCGGGCAAGGTGT
 GCGTGCTGGATGTCAACCCTCAGGCGGTGAAGTCTGAGGACAGCTGAGTTTGTCCCTACGTGGTGT
 CATCGAGGCTCCTGACTTTGAGACTCTGCGGGCCATGAACCGAGCTGCCCTGGAGAGCGGAGTGTCCACT
 AAGCAGCTGACGGAGCGGATCTGAGGCGGACAGTGGAGGAGAGCAGCCGCATCCAGAGAGGCTATGGGC
 ATTACTTCGACCTCAGCCTGGTCAACAGCAACCTGGAGAGGACCTCCGCGAGCTCCAGACTGCCATGGA
 GAAGCTTCGCACGGAGCCCCAGTGGGTGCCTGTGAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216896 representing NM_053513
 Red=Cloning site Green=Tags(s)

MPVAATNSESAMQQVLDNLGSLPNATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLEL
 VQEILRDLAELAEQSSTAELARILQEPHFQSLLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRM
 VGIRKTAGEHLGVTRVEGGELVIARILHGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRSASGS
 VILKILPSYQEPHLPRQVFVKCHFDPARDSLIPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSA
 GLIPSQLEEKRAFVKRDLELTPTSGTLCGSLSGKKKRRMYLTTKNAEFDRELLIYEEVARMPPFRR
 KTLVLIGAQGVRRSLKNKLLWDPDRYGTTPYTSRRPKDSEREGQGYFVSRGEMADIRAGRYLEHG
 EYEGNLYGTRIDSIKRVVAVSGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDFETLRAMNRAALESVST
 KQLTEADLRRTVEESSRIQRGYGHYFDLSLVNSNLERTFRELQTAMEKLRTEPQWVPSWVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_053513

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_053513.1](#), [NP_445965.1](#)

RefSeq Size: 2198 bp

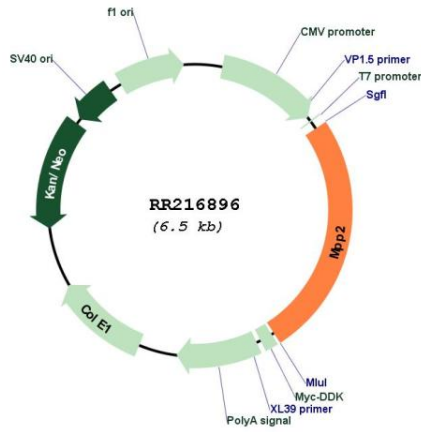
RefSeq ORF: 1659 bp

Locus ID: 85275

UniProt ID: [D3ZAA9](#)

Cytogenetics: 10q32.1
 MW: 61.6 kDa
 Gene Summary: a protein related to CASK that may play a role in synaptic vesicle exocytosis and synaptic junctions [RGD, Feb 2006]

Product images:



Circular map for RR216896