

Product datasheet for **MC202005**

Mpp2 (NM_016695) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpp2 (NM_016695) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mpp2
Synonyms: D11Bwg0652e; Dlg2; Dlg2; Pals4
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC053026 sequence for NM_016695
 GCCGCTTTAAGAGCGCGCTAGCGATTGACAAGCAATAACCGCGAGCGCCGGGCTGCGCGGAATCGCCC
 CAAGCTAGGGGCTCCCCAAAACGCAGGACCATCAGAATCCACACTGCCTCTATTACCATGCCGGTTGCT
 GCCACGAACTCCGAGTCTGCTATGCAGCAAGTCTTGACAACTGGGATCCCTGCCCAATGCCACTGGGG
 CCGCGAACTGGACCTGATCTTTCTTCGAGGCATAATGGAAGTCCGATAGTCAGATCCCTGGCCAAGGC
 CCACGAGCGGCTGGAGGAGACGAAGTTGGAGGCCGTCGGGATAACAACCTGGAGCTGGTGCAGGAAATC
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 CCCAGGCTGGATCCCACGTTTAGCAACCAGCCAGTACCTCCTGATGCGGTGCGCATGGTGGCATTTCGG
 AAGACTGCAGGAGAACACCTGGGTGTGACATTCGAGTGGAGGGTGGTGGAGCTGGTATTGCCCGATTTC
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 GGAGCCCCAGTGGGTGCCTGTGAGCTGGGTGTACTGAGGCTTGTCTGGACCTTGTACTGCCTGTTGG



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GAATCCAACCTTCCACTCCACCTGCGATGCTCCCCATCCTGCTAATGGTCTTCGTCCCCATCTCTGGTTT
TCCCTGGACTGCAGTTCCCAGCAAGGGCTGGCTTCAGTATAGGGGTGTGCACTGCCAGGGAGGTAGGTGT
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AGCCCGTTGCTGTCCCTCTGTCTCCCCCACTCCCCACCCAGCCATCTAGTTTTTAAGTTTTCTCTTT
TCCTTTGATTAACGTGACAGCAAGTGA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites:

Ascl-NotI

ACCN:

NM_016695

Insert Size:

1659 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC053026](#), [AAH53026](#)

RefSeq Size: 4142 bp

RefSeq ORF: 1659 bp

Locus ID: 50997

UniProt ID: [Q9WV34](#)

Cytogenetics: 11 65.48 cM

Gene Summary: Postsynaptic MAGUK scaffold protein that links CADM1 cell adhesion molecules to core components of the postsynaptic density (By similarity). In CA1 pyramidal neurons, required for synaptic KCNN2-containing channel function and long-term potentiation expression (PubMed:26880549). Seems to negatively regulate SRC function in epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region, compared to variant 1. It encodes isoform 2, which has a shorter and distinct N-terminus, compared to isoform 1.