

Product datasheet for **MG208768**

Mpp2 (NM_016695) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpp2 (NM_016695) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mpp2
Synonyms:	D11Bwg0652e; Dlg2; Dlgh2; Pals4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208768 representing NM_016695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTTGCTGCCACGAACCTCCGAGTCTGCTATGCAGCAAGTCTTGGACAACCTGGGATCCCTGCCCA
 ATGCCACTGGGGCCGCGAACTGGACCTGATCTTTCTTCGAGGCATAATGGAAAGTCCGATAGTCAGATC
 CCTGGCCAAGGCCACGAGCGGCTGGAGGAGACGAAGTTGGAGGCCGTCCGGGATAACAACCTGGAGCTG
 GTGCAGGAAATCCTTCGGGACCTGGCAGAGCTGGCAGAGCAGAGCAGCACCGCTGCAGAGCTGGCAGCA
 TCCTCCAGGAGCCCCACTTCCAGTCCCTCTGGAGACACATGACTCAGTGGCTTCAAAGACCTATGAGAC
 ACCACCCCAAGCCAGGCTGGATCCCACGTTTAGCAACCAGCCAGTACCTCCTGATGCGGTGCGCATG
 GTGGGCATTTCGGAAGACTGCAGGAGAACACCTGGGTGTGACATTCGAGTGGAGGGTGGTGGAGCTGGTGA
 TTGCCCGCATTTCATGGGGCATGGTGGCTCAGCAAGGTCTGCTGCATGTCGGTGACATCATCAAGGA
 AGTGAATGGACAGCCAGTGGCAGCGATCCCCGGGCACTGCAGGAGCTCCTGCGCAGTGCCAGTGGCAGT
 GTCATCTCAAGATCTTGCCAGCTACCAGGAACCCACCTGCCCGACAGGTATTTGTTAAATGCCACT
 TCGACTATGACCTGCCCGGGACAGTCTCAGCCCTGCAAGGAGGCAGGCTGCGCTTAAACGCGGGGGA
 CTTGCTCCAGATTGTAACCAAGATGATGCCAACTGGTGGCAGGCATGCCACGTAGAAGCGGCAGTGCC
 GGCCTCATCCCCAGCCAGCTGTTGGAGGAGAAACGGAAAGCATTGTCAAGCGGGACCTGGAACCTGACCC
 CGACCTCAGGGACCCTATGCGGCAGCCTTTCAGGAAAGAAAAAGAAGCGAATGATGTATTTGACCACAA
 GAATGCAGAGTTTACCAGCATGAGTGCCTATTTATGAGGAGGTGGCCCGCATGCCCCATTCCGCAGG
 AAAACCTGGTACTGATTGGCGCGCAGGGTGTGGGCCGCGCAGCCTGAAAAACAAGTCAATTTTGTGGG
 ATCCAGACCGCTACGGCACCACGGTGCCTACACATCACGGAGGCCAAGGACTCAGAACGGGAGGGGCA
 GGGCTACAGCTTTGTGTCCCGTGGGAGATGGAGGCTGACATCCGAGCCGGGCGCTACCTAGAACATGGC
 GAGTATGAGGGCAACCTGTATGGCACACGGATCGACTCCATCCGGGGCGTTGTTGCCTCTGGCAAGGTGT
 GCGTGCTGGATGTCAACCCGAGGCGGTGAAGGTCTGAGGACAGCTGAGTTTGTCCCTACGTGGTGT
 CATAGAGGCTCCTGATTATGAGACTCTACGGCCATGAACCGGGCTGCGCTGGAGAGTGGCGTGTCCACT
 AAGCAGTTGACGGAGGCAGATCTGAGGCGGACAGTGGAGGAGAGCAGCCGCATCCAGAGGGGCTATGGC
 ATTACTTCGACCTCAGCCTGGTCAACAGCAACCTGGAGAGGACCTCCGTGAGCTCCAGACTGCCATGGA
 GAAACTTCGACGGAGCCCCAGTGGGTGCCTGTGAGCTGGGTGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208768 representing NM_016695
 Red=Cloning site Green=Tags(s)

MPVAATNSESAMQQVLDNLGSLPNATGAAELDLIFLRGIMESPIVRSLAKAHERLEETKLEAVRDNNLEL
 VQEILRDLAEAEQSSTAELARILQEPHFQSLETHDSVASKTYETPPSPGLDPTFSNQPVPPDAVRM
 VGIRKTAGEHLGVTRVEGGELVIARILHGGMVAQQGLLHVGDIIKEVNGQPVGSDPRALQELLRSASGS
 VILKILPSYQEPHLPRQVFKCHFDPARDSLSPCKEAGLRFNAGDLLQIVNQDDANWWQACHVEGGSA
 GLIPSQLEEKRAFVKRDLELTPTSGTLCGSLSGKKKRMMYLTTKNAEFDREHELLIYEEVARMPPFR
 KTLVLIQAQGVGRRSLKNKLLWDPDRYGTTPYTSRRPKDSEREGQYSFVSRGEMADIRAGRYLEHG
 EYEGNLVYTRIDSIRGVVASGKVCVLDVNPQAVKVLRTAEFVYVVFIEAPDYETLRAMNRAALESVST
 KQLTEADLRRTVEESSRIQRGYGHYFDLSLVNSNLERTFRELQTAMEKLRTPEQWVPSWVY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_016695
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:	<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_016695.4
RefSeq Size:	4100 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]