

Product datasheet for **MC208988**

Mapt (NM_001038609) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapt (NM_001038609) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapt
Synonyms:	AI413597; AW045860; Mtapt; Tau
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC208988 representing NM_001038609
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGACCCTCGCCAGGAGTTTGACACAATGGAAGACCATGCTGGAGATTACACTCTGCTCCAAGACC
 AAGAAGGAGACATGGACCATGGCTTAAAAGAGTCTCCCCACAGCCCCCGCCGATGATGGAGCGGAGGA
 ACCAGGGTCGGAGACCTCCGATGCTAAGAGCACTCCAACCTGCTGAAGACGTGACTGCGCCCCCTAGTGGAT
 GAGAGAGCTCCCGACAAGCAGGCCGCTGCCAGCCCCACACGGAGATCCCAGAAGGAATTACAGCCGAAG
 AAGCAGGCATCGGAGACACCCCGAACAGGAGGACCAAGCCGCTGGGCATGTGACTCAAGCTCGTGTGGC
 CAGCAAAGACAGGACAGGAAATGACGAGAAGAAAGCCAAGGGCGCTGATGGCAAACCGGGGCGAAGATC
 GCCACACCTCGGGGAGCAGCCTCTCCGGCCAGAAAGGGCAGTCCAACGCCACCAGGATCCCGGCCAAGA
 CCACGCCAGCCCTAAGACTCCTCCAGGGTCAGGTGAACCACAAAATCCGGAGAACGAAGCGGCTACAG
 CAGCCCCGGCTCTCCCGAACGCCTGGCAGTCGCTCGCGCACCCCATCCCTACCAACACCGCCACCCGG
 GAGCCCAAGAAGGTGGCAGTGGTCCGCACTCCCCCTAAGTCACCATCAGCTAGTAAGAGCCGCTGCAGA
 CTGCCCTGTGCCATGCCAGACCTAAAGAATGTGAGTGAAGATTGGCTCTACTGAGAACCTGAAGCA
 CCAGCCAGGAGGTGGCAAGTGCAGATAATTAATAAGAAGCTGGATCTTAGCAACGTCCAGTCCAAGTGT
 GGCTCGAAGGATAATATCAAACAGTCCCGGGTGGAGGCAGTGTGCAAAATAGTCTACAAGCCGGTGGACC
 TGAGCAAAGTGACCTCCAAGTGTGGCTCGTTAGGGAACATCCATCACAAGCCAGGAGGTGGCCAGGTGGA
 AGTAAAATCAGAGAAGCTGGACTTCAAGGACAGAGTCCAGTCGAAGATTGGCTCCTTGGATAATATCACC
 CACGTCCTGGAGGAGGAATAAGAAGATTGAAACCCACAAGCTGACCTTCAGGGAGAATGCCAAAGCCA
 AGACAGACCATGGAGCAGAAATTGTGTATAAGTCACCCGTGGTGTCTGGGACACATCTCCACGGCACCT
 CAGCAATGTGTCTTCCACGGGCAGCATCGACATGGTGGACTCACACAGCTTGCCACACTAGCCGATGAA
 GTGTCTGCTTCTTGCCAAGCAGGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001038609

Insert Size: 1293 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: [NM_001038609.2](#), [NP_001033698.1](#)

RefSeq Size: 5396 bp

RefSeq ORF: 1293 bp

Locus ID: 17762

UniProt ID: [P10637](#)

Cytogenetics: 11 E1

Gene Summary: Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (a).