

## Product datasheet for **MC227213**

### Mapt (NM\_001285455) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mapt (NM\_001285455) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mapt  
**Synonyms:** AI413597; AW045860; Mtapt; Tau  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227213 representing NM\_001285455  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTGACCCTCGCCAGGAGTTTGACACAATGGAAGACCATGCTGGAGATTAACTCTGCTCCAAGACC  
AAGAAGGAGACATGGACCATGGCTTAAAAGCTCGTGTGGCCAGCAAAGACAGGACAGGAAATGACGAGAA  
GAAAGCCAAGGGCGCTGATGGCAAACCGGGCGAAGATCGCCACACCTCGGGGAGCAGCCTCTCCGGCC  
CAGAAGGGCAGTCCAACGCCACCAGGATCCCGGCAAGACCACGCCAGCCCTAAGACTCTCCAGGGT  
CAGGTGAACCAACAAAATCCGGAGAACGAAGCGGCTACAGCAGCCCCGGCTCTCCCGAAGCCTGGCAG  
TCGCTCGCGCACCCATCCCTACCAACACCGCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGCACT  
CCCCCTAAGTCACCATCAGTAGTAAGAGCCGCTGCAGACTGCCCTGTGCCATGCCAGACCTAAAGA  
ATGTCAGGTCGAAGATTGGCTCTACTGAGAACCTGAAGCACCAGCCAGGAGGTGGCAAGGTGCAGATAAT  
TAATAAGAAGCTGGATCTTAGCAACGTCAGTCCAAGTGTGGCTCGAAGGATAATATCAAACACGTCGCC  
GGTGGAGGCAGTGTGCAAATAGTCTACAAGCCGGTGGACCTGAGCAAAGTGACCTCCAAGTGTGGCTCGT  
TAGGGAACATCCATCACAAGCCAGGAGGTGGCCAGGTGGAAGTAAAATCAGAGAAGCTGGACTTCAAGGA  
CAGAGTCCAGTCAAGATTGGCTCCTTGATAATATCACCCACGTCCTGGAGGAGGGAATAAGAAGATT  
GAAACCCACAAGCTGACCTTCAGGGAGAATGCCAAAGCCAAGACAGACCATGGAGCAGAAATTTGTGATA  
AGTCACCCGTGGTGTCTGGGGACACATCTCACCGCACCTCAGCAATGTGTCTTCCACGGGCAGCATCGA  
CATGGTGGACTCACACAGCTTGCACACTAGCCGATGAAGTGTCTGCTTCTTGGCCAAGCAGGGTTTG  
TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001285455



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<b>Insert Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001285455.1</a></u> , <u><a href="#">NP_001272384.1</a></u>
<b>RefSeq Size:</b>	5141 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	17762
<b>UniProt ID:</b>	<u><a href="#">P10637</a></u>
<b>Cytogenetics:</b>	11 E1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks three consecutive exons in the 5' coding region, compared to variant 1. The resulting isoform (d) lacks an internal segment, compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>