

Product datasheet for **MC227141**

Mapt (NM_001285456) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mapt (NM_001285456) 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)
Fully Sequenced ORF: >MC227141 representing NM_001285456
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGACCCTCGCCAGGAGTTTGACACAATGGAAGACCATGCTGGAGATTAACTCTGCTCCAAGACC
AAGAAGGAGACATGGACCATGGCTTAAAAGCCGAAGAAGCAGGCATCGGAGACACCCGAACCAGGAGGA
CCAAGCCGCTGGGCATGTGACTCAAGCTCGTGTGGCCAGCAAAGACAGGACAGGAAATGACGAGAAGAAA
GCCAAGGGCGCTGATGGCAAAACCGGGGCAAGATCGCCACACCTCGGGGAGCAGCCTCTCCGGCCAGA
AGGGCACGTCCAACGCCACCAGGATCCCGCCAAGACCACGCCCAAGACTCCTCCAGGGTCAGG
TGAACCACCAAAATCCGGAGAACGAAGCGGCTACAGCAGCCCGGCTCTCCCGGAACGCCTGGCAGTCGC
TCGGCCACCCATCCCTACCAACACCGCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGCACTCCCC
CTAAGTCAACATCAGCTAGTAAGAGCCGCTGCAGACTGCCCTGTGCCATGCCAGACCTAAAGAATGT
CAGGTCGAAGATTGGCTCTACTGAGAACCTGAAGCACCAGCCAGGAGGTGGCAAGGTGCAATAGTCTAC
AAGCCGGTGGACCTGAGCAAAGTGACCTCCAAGTGTGGCTCGTTAGGGAACATCCATCACAAGCCAGGAG
GTGGCCAGGTGGAAGTAAATCAGAGAAGCTGGACTTCAAGGACAGAGTCCAGTCGAAGATTGGCTCCTT
GGATAATACCCACGTCCTGGAGGAGGGAATAAGAAGATTGAAACCCACAAGCTGACCTTCAGGGAG
AATGCCAAAGCCAAGACAGACCATGGAGCAGAAATTGTGATAAGTCACCCGTGGTGTCTGGGGACACAT
CTCCACGGCACCTCAGCAATGTGCTTCCACGGGCAGCATCGACATGGTGGACTCACCACAGCTTGCCAC
ACTAGCCGATGAAGTGTCTGCTTCTTGGCCAAGCAGGGTTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001285456
Insert Size:	1026 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001285456.1</u> , <u>NP_001272385.1</u>
RefSeq Size:	5129 bp
RefSeq ORF:	1026 bp
Locus ID:	17762
UniProt ID:	<u>P10637</u>
Cytogenetics:	11 E1
Gene Summary:	<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 (5) lacks two consecutive exons in the 5' coding region and an exon in the 3' coding region, compared to variant 1. The resulting isoform (e) lacks two internal segments, compared to isoform a.</p>