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Product datasheet for MC227295

Mapt (NM_001285454) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapt (NM_001285454) 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:	>MC227295 representing NM_001285454 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGACCCTCGCCAGGAGTTTGACACAATGGAAGACCATGCTGGAGATTACACTCTGCTCCAAGACC AAGAAGGAGACATGGACCATGGCTTAAAAGCCGAAGAAGCAGGCATCGGAGACACCCCGAACCAGGAGGA CCAAGCCGCTGGGCATGTGACTCAAGCTCGTGTGGCCAGCAAAGACAGGACAGGAAATGACGAGAAGAAA GCCAAGGGCGCTGATGGCAAAACCGGGGCGAAGATCGCCACACCTCGGGGAGCAGCCTCTCCGGCCCAGA AGGGCACGTCCAACGCCACCAGGATCCCGGCCAAGACCACGCCCAGCCCTAAGACTCCTCCAGGGTCAGG TGAACCACCAAAATCCGGAGAACGAAGCGGCTACAGCAGCCCCGGCTCTCCCGGAACGCCTGGCAGTCGC TCGCGCACCCCATCCCTACCAACACCGCCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGCACTCCCC CTAAGTCACCATCAGCTAGTAAGAGCCGCCTGCAGACTGCCCCTGTGCCCATGCCAGACCTAAAGAATGT CAGGTCGAAGATTGGCTCTACTGAGAACCTGAAGCACCAGCCAGGAGGTGGCAAGGTGCAAATAGTCTAC AAGCCGGTGGACCTGAGCAAAGTGACCTCCAAGTGTGGCTCGTTAGGGAACATCCATCACAAGCCAGGAG GTGGCCAGGTGGAAGTAAAATCAGAGAAGCTGGACTTCAAGGACAGAGTCCAGTCGAAGATTGGCTCCTT GGATAATATCACCCACGTCCCTGGAGGAGGGAATAAGAAGATTGAAACCCACAAGCTGACCTTCAGGGAG AATGCCAAAGCCAAGACAGACCATGGAGCAGAAATTGTGTATAAGTCACCCGTGGTGTCTGGGGACACAT CTCCACGGCACCTCAGCAATGTGTCTTCCACGGGCAGCATCGACATGGTGGACTCACCACAGCTTGCCAC ACTAGCCGATGAAGTGTCTGCTTCCTTGGCCAAGCAGGGAAAAGCTGCTTTACTGAGTTCTCAAGTTTGG AACTACAGCCATGATTTGGCCACCATTACAGACCTGGGACTTTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001285454

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Insert Size:	1095 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:	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_001285454.1, NP_001272383.1
RefSeq Size:	4207 bp
RefSeq ORF:	1095 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 (3) has multiple coding region differences and differs in the 3' UTR, compared to variant 1. The resulting isoform (c) lacks two internal segments and has a longer and distinct C-terminus, compared to isoform a.