

Product datasheet for **SC331481**

Tau (MAPT) (NM_001203252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_001203252) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tau
Synonyms:	DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; tau-40
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001203252, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGCCCCGCCAGGAGTTCGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTGGGGACAGGA
AAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGAATCTCC
CCTGCAGACCCCCACTGAGGACGGATCTGAGGAACCGGGCTCTGAAACCTCTGATGCTAAGAGCACTCCA
ACAGCGGAAGATGTGACAGCACCTTAGTGATGAGGGAGCTCCCGGCAAGCAGGCTGCCGCGCAGCCCC
ACACGGAGATCCCAGAAGGAACACAGCTGAAGAAGCAGGCATTGGAGACACCCCGCCTGGAAGACGA
AGCTGCTGGTACGTGACCAAGCTCGCATGGTCAGTAAAAGCAAAGACGGGACTGGAAGCGATGACAAA
AAAGCCAAGGGGGCTGATGGTAAAACGAAGATCGCCACACCGCGGGGAGCAGCCCTCCAGGCCAGAAGG
GCCAGGCCAAGCCACCAGGATTCAGCAAAAACCCCGCCGCTCAAAGACACCACCCAGCTCTGGTGA
ACCTCCAAAATCAGGGGATCGCAGCGGCTACAGCAGCCCCGGCTCCCCAGGCACTCCCGGAGCCGCTCC
CGCACCCCGTCCCTTCCAACCCACCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGTAATCCACCCA
AGTCGCGCTTCCGCAAGAGCCGCTGCAGACAGCCCCGTCATGCCAGACCTGAAGAATGTCAA
GTCCAAGATCGGCTCCACTGAGAACCTGAAGCACCAGCCGGGAGGCGGGAAGGTGCAAATAGTCTACAAA
CCAGTTGACCTGAGCAAGGTGACCTCCAAGTGTGGCTCATTAGGCAACATCCATCATAAACCAGGAGGTG
GCCAGGTGGAAGTAAAATCTGAGAAGCTTGACTCAAGGACAGAGTCCAGTCAAGATTGGTCCCTGGA
CAATATCACCCAGTCCCTGGCGGAGGAAATAAAAGATTGAAACCCACAAGCTGACCTCCGCGAGAAC
GCCAAAGCCAAGACAGACCAGGGGCGGAGATCGTGTACAAGTCGCCAGTGGTGTCTGGGACACAGTCTC
CACGGCATCTCAGCAATGTCTCCTCCACCGGCAGCATCGACATGGTAGACTCGCCCCAGCTCGCCACGCT
AGCTGACGAGGTGTCTGCCTCCCTGGCCAAGCAGGTTTGTGA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001203252



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001203252.1](#), [NP_001190181.1](#)

RefSeq Size: 5718 bp

RefSeq ORF: 1233 bp

Locus ID: 4137

UniProt ID: [P10636](#)

Cytogenetics: 17q21.31

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, MAPK signaling pathway

Gene Summary:

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (8) lacks three internal coding exons, as compared to variant 6. The reading frame is not affected, and the resulting isoform (8) has identical N- and C-termini but lacks three segments, as compared to isoform 6. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.