

## Product datasheet for **SC316366**

### Tau (MAPT) (NM\_016834) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_016834) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_016834 edited  
 ATGGCTGAGCCCCGCCAGGAGTTTCGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTG  
 GGGGACAGGAAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGAC  
 GCTGGCCTGAAAAGCTGAAGAAGCAGGCATTGGAGACACCCCCAGCCTGGAAGACGAAGCT  
 GCTGGTACGTGACCCAAGCTCGCATGGTCAGTAAAAGCAAAGACGGGACTGGAAGCGAT  
 GACAAAAAAGCCAAGGGGGCTGATGGTAAAACGAAGATCGCCACACCGCGGGGAGCAGCC  
 CCTCCAGGCCAGAAGGGCCAGGCCAACGCCACCAGGATTCCAGCAAAAACCCCGCCCGCT  
 CCAAAGACACCACCCAGCTCTGGTGAACCTCCAAAATCAGGGGATCGCAGCGGCTACAGC  
 AGCCCCGGCTCCCAGGCACTCCCGGCAGCCGCTCCCGCACCCCGTCCCTTCCAACCCCA  
 CCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGTAATCCACCAAGTCGCCGCTTTC  
 GCCAAGAGCCGCCTGCAGACAGCCCCCGTGCCCATGCCAGACCTGAAGAATGTCAAGTCC  
 AAGATCGGCTCCACTGAGAACCTGAAGCACCAGCCGGGAGGCGGGAAGGTGCAGATAATT  
 AATAAGAAGCTGGATCTTAGCAACGTCCAGTCCAAGTGTGGCTCAAAGGATAATATCAAA  
 CACGTCCCAGGAGGCGGCAGTGTGCAAATAGTCTACAAACCAGTTGACCTGAGCAAGGTG  
 ACCTCCAAGTGTGGCTCATTAGGCAACATCCATCATAAACCCAGGAGGTGGCCAGGTGGAA  
 GTAAAATCTGAGAAGCTTGACTTCAAGGACAGAGTCCAGTCAAGATTGGGTCCCTGGAC  
 AATATCACCCACGTCCCTGGCGGAGGAAATAAAAAGATTGAAACCCACAAGCTGACCTTC  
 CGCGAGAACGCCAAAGCCAAGACAGACCACGGGGCGGAGATCGTGTACAAGTCGCCAGTG  
 GTGTCTGGGGACAGTCTCCACGGCATCTCAGCAATGTCTCCTCACCCGGCAGCATCGAC  
 ATGGTAGACTCGCCCCAGCTCGCCACGCTAGCTGACGAGGTGTCTGCCTCCCTGGCCAAG  
 CAGGGTTTGTGA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016834 unedited GCGGGCCCGGGTCGATGGTGCCATTGTATACGACTCCTATAGGGCGGCCCAAATCGGCA CGAGGGGACGGCCGAGCGGCAGGGCGCTCGCGCGGCCACTAGTGGCCGGAGGAGAAGG CTCCCGCGGAGGCCGCGCTGCCCGCCCCCTCCCCTGGGGAGGCTCGCGTTCCCGCTGCTC GCGCCTGCGCCGCCCGCGGCCTCAGGAACGCGCCCTCTCGCCGGCGCGCCCTCGCA GTCACCGCCACCCACAGCTCCGGCACCAACAGCAGCGCCGCTGCCACCGCCACCTTCT GCCGCGCCACCCACAGCCACCTTCTCCTCCTCCGCTGTCTCTCCCGTCTCGTCTGT CGACTATCAGGTGAACCTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGTGATG GAAGATACGCTGGGACGTACGGGTTGGGGGACAGGAAAGATCAGGGGGGCTACACCATG CACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGCTGAAGAAGCAGGCATTGGA GACACCCCGAGCCTGGAAGACGAAGCTGCTGGTCACGTGACCCAAGCTCGCATGGTCAGT AAAAGCAAAGACGGGACTGGAAGCGATGACAAAAAAGCCAAGGGGGCTGATGGTAAAAACG AAGATCGCCACACCGGGGAGCAGCCCTCCAGGCCAGAAGGGCCAGGCCAACGCCACC AGGATTCCAGCAAAAACCCCGCCGCTCCAAAGACACCACCCAGCTCTGGTGAACCTCCA AAATCAGGGGATCGCAGCGGCTACAGCAGCCCGGCTCCAGCACTCCCGCAGCCGCTCC CGCACCCCGTCCCTTCAACCCACCCACCCGGAGCCAGAGTGCAAGTGTGCTACTCCACC CAAGTCGCGTCTTCCGCCAGAAGCGCTGCAAAACAGCCCCCGGTGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_016834
<b>Insert Size:</b>	1800 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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_016834.2</a> , <a href="#">NP_058518.1</a>
<b>RefSeq Size:</b>	5557 bp
<b>RefSeq ORF:</b>	1152 bp
<b>Locus ID:</b>	4137
<b>UniProt ID:</b>	<a href="#">P10636</a>
<b>Cytogenetics:</b>	17q21.31

<b>Domains:</b>	tubulin-binding
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, MAPK signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks five internal coding exons, as compared to variant 6. The reading frame is not affected, and the resulting isoform (3) has identical N- and C-termini but lacks four 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.</p>