

## Product datasheet for **SC318865**

### Tau (MAPT) (NM\_001123067) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_001123067) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tau
Synonyms:	DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; tau-40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001123067 edited  
 ATGGCTGAGCCCCGCCAGGAGTTCTGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTG  
 GGGGACAGGAAAAGATCAGGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGAC  
 GCTGGCCTGAAAAGAAATCTCCCTGCAGACCCCCACTGAGGACGGATCTGAGGAACCGGGC  
 TCTGAAACCTCTGATGCTAAGAGCACTCCAACAGCGGAAGCTGAAGAAGCAGGCATTGGA  
 GACACCCCGAGCCTGGAAGACGAAGCTGCTGGTACGTGACCCAAGCTCGCATGGTCAAGT  
 AAAAGCAAAGACGGGACTGGAAGCGATGACAAAAAGCCAAGGGGGTGTGGTAAAAACG  
 AAGATCGGCACACCGGGGAGCAGCCCTCCAGGCCAGAAGGGCCAGGCCAACGCCACC  
 AGGATTCCAGCAAAAACCCCGCCGCTCCAAAGACACCACCCAGCTCTGGTGAACCTCCA  
 AAATCAGGGGATCGCAGCGGCTACAGCAGCCCGGCTCCCGAGGCACTCCCGGCAGCCGC  
 TCCCGCACCCCGTCCCTTCCAACCCACCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTC  
 CGTACTCCACCCAAGTCGCCGTCTTCCGCCAAGAGCCGCCTGCAGACAGCCCCCGTGCC  
 ATGCCAGACCTGAAGAATGTCAAGTCCAAGATCGGCTCCACTGAGAACCTGAAGCACCA  
 CCGGGAGGCGGGAAGGTGCAGATAAATTAATAAGAAGCTGGATCTTAGCAACGTCCAGTCC  
 AAGTGTGGCTCAAAGGATAATATCAAACACGTCCCGGGAGGCGGCAGTGTGCAAAATAGTC  
 TACAAACCAAGTTGACCTGAGCAAGGTGACCTCCAAGTGTGGTCTATTAGGCAACATCCAT  
 CATAAACCAGGAGGTGGCCAGGTGGAAGTAAAACTGAGAAGCTTGAATCAAGGACAGA  
 GTCCAGTCGAAGATTGGGTCCCTGGACAATATCACCCACGTCCCTGGCGGAGGAAATAAA  
 AAGATTGAAACCCACAAGCTGACCTTCCGCGAGAACGCCAAAGCCAAGACAGACCAGGG  
 GCGGAGATCGTGTACAAGTCGCCAGTGGTGTCTGGGGACACGTCTCCACGGCATCTCAGC  
 AATGTCTCCTCCACCGGACGATCGACATGGTAGACTCGCCCCAGCTCGCCACGCTAGCT  
 GACGAGGTGTCTGCCTCCCTGGCCAAGCAGGGTTTGTGA

Restriction Sites:	Please inquire
ACCN:	NM_001123067
Insert Size:	5724 bp



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<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>	<u><a href="#">NM_001123067.1</a></u> , <u><a href="#">NP_001116539.1</a></u>
<b>RefSeq Size:</b>	5724 bp
<b>RefSeq ORF:</b>	5724 bp
<b>Locus ID:</b>	4137
<b>UniProt ID:</b>	<u><a href="#">P10636</a></u>
<b>Cytogenetics:</b>	17q21.31
<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 (5) lacks four internal coding exons, as compared to variant 6. The reading frame is not affected, and the resulting isoform (5) 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>