

## Product datasheet for **SC309606**

### Tau (MAPT) (NM\_005910) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_005910) 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:	>SC309606 representing NM_005910. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTGAGCCCCGCCAGGAGTTGCGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTGGGGGACAGG
AAAGATCAGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGAATCT
CCCCTGCAGACCCCACTGAGGACGGATCTGAGGAACCGGGCTCTGAAACCTCTGATGCTAAGAGCACT
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CCCCACACGGAGATCCCAGAAGGAACCACAGCTGAAGAAGCAGGCATTGGAGACACCCCCAGCCTGGAA
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ATCGTGTACAAGTCGCCAGTGGTGTCTGGGACACGTCTCCACGCATCTCAGCAATGTCTCCTCCACC
GGCAGCATCGACATGGTAGACTCGCCCCAGCTCGCCACGCTAGCTGACGAGGTGTCTGCCTCCCTGGCC
AAGCAGGGTTGTGA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005910 unedited GCGGCCGCGAATTCGGCACGAGGGGACGGCCGAGCGGCAGGGCGCTCGCGCGGCCACTAGTGGCCGG AGGAGAAGGCTCCCGCGGAGGCCGCGCTGCCGCCCCCTCCCCTGGGGAGGCTCGCGTTCGCGTCTGCTC GCGCCTGCGCCGCCCGCCGGCCCTCAGGAACGCGCCCTCTTCGCCGGCGCGGCCCTCGCAGTCACCGCC ACCCACCAGCTCCGGCACCAACAGCAGCGCCGCTGCCACCGCCACCTTCTGCCGCCGCCACCACAGCC ACCTTCTCCTCCTCCGCTGTCTCTCCCGTCTCGCCTCTGTGCGACTATCAGGTGAATTTGAACCAGG
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005910 unedited TCAGGCCCTGGGGCGGTCAATAATTGTGGAGAGGAGAGAATGAGAGAGTGTGGAAAAAAAAAGAATAA TGACCCGGCCCCGCCCTCTGCCCCAGCTGCTCCTCGCAGTTCGGTTAATTGGTTAATCACTTAACCT GCTTTTGTCACTCGGCTTTGGCTCGGGACTTCAAATCAGTGATGGGAGTAAGAGCAAATTTTCATCTTT CCAAATTGATGGGTGGGCTAGTAATAAAATATTTAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGGC GCCGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005910
<b>Insert Size:</b>	1326 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>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_005910.3</a>
<b>RefSeq Size:</b>	5731 bp
<b>RefSeq ORF:</b>	1326 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>MW:</b>	45.8 kDa
<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 (2) lacks three internal coding exons, as compared to variant 6. The reading frame is not affected, and the resulting isoform (2) 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.</p>