

Product datasheet for **SC314626**

Tau (MAPT) (NM_016835) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_016835) 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)



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Fully Sequenced ORF: >OriGene sequence for NM_016835 edited
 GGACGGCCGAGCGGCAGGGCGCTCGCGCGCCCACTAGTGGCCGGAGGAGAAGGCTCCC
 GCGGAGGCCGCGCTGCCCGCCCCCTCCCCTGGGGAGGCTCGCGTTCGCGTGTGCTCGCGCC
 TGCGCCGCCCCCGGCCTCAGGAACCGCCCTTTCGCGCGCGCGCCCTCGCAGTCAC
 CGCCACCACAGCTCCGGCACCAACAGCAGCGCCGTCGCCACCGCCACCTTCTGCCG
 CGCCACCACAGCCACCTTCTCTCTCCGCTGTCTCTCCGTCCTCGCCTGTGTCGACT
 ATCAGGTGAACCTTTGAACCAGGATGGCTGAGCCCGCCAGGAGTTCGAAGTGATGGAAGA
 TCACGCTGGGACGTACGGGTTGGGGACAGGAAAGATCAGGGGGCTACACCATGCACCA
 AGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGAATCTCCCCTGCAGACCCCCACTGA
 GGACGGATCTGAGGAACCGGGCTCTGAAACCTCTGATGCTAAGAGCACTCCAACAGCGGA
 AGATGTGACAGCACCTTAGTGGATGAGGGAGCTCCCGCAAGCAGGCTGCCGCGCAGCC
 CCACACGGAGATCCAGAAGGAACACAGCTGAAGAAGCAGGCATTGGAGACACCCCCAG
 CCTGGAAGACGAAGCTGTGGTACGTGACCAAGAGCCTGAAAGTGGTAAGGTGGTCCA
 GGAAGGCTTCTCCGAGAGCCAGGCCCCCAAGTCTGAGCCACCAGCTCATGTCCGGCAT
 GCCTGGGGCTCCCCTCTGCCTGAGGGCCCAAGAGGCCACACGCCAACCTTCGGGGAC
 AGGACCTGAGGACACAGAGGGCGCCGCCACGCCCTGAGCTGCTCAAGCACAGCTTCT
 AGGAGACCTGCACCAGGAGGGGGCCGCGCTGAAGGGGGCAGGGGGCAAAGAGAGGGCCGG
 GAGCAAGGAGGAGGTGGATGAAGACCGCAGCTCGATGAGTCTCCCCCAAGACTCCCC
 TCCCTCAAGGCCTCCCCAGCCAAGATGGGCGGCCTCCCAGACAGCCGCCAGAGAAGC
 CACCAGCATCCCAGGCTTCCCAGCGAGGGTGCCATCCCCTCCCCTGTGGATTTCTCTC
 CAAAGTTTCCACAGAGATCCCAGCCTCAGAGCCGACGGGCCAGTGTAGGGCGGGCCAA
 AGGGCAGGATGCCCCCTGGAGTTCACGTTTACGTGGAATCACACCCAACGTGCAGAA
 GGAGCAGGCGCACTCGGAGGACATTTGGGAAGGGTGCATTTCCAGGGGCCCTGGAGA
 GGGGCCAGAGGCCCGGGGCCCTTTGGGAGAGGACACAAAAGAGGCTGACCTTCAGA
 GCCCTCTGAAAAGCAGCCTGCTGCTGCTCCGCGGGGAAGCCCGTCAGCCGGGTCCCTCA
 ACTCAAAGCTCGCATGGTCAGTAAAAGCAAAGCAGGGACTGGAAGCGATGACAAAAAAGC
 CAAGACATCCACACGTTCTCTGCTAAAACCTTAAAAATAGGCCTTGCCTTAGCCCCAA
 ACACCCACTCTCTGCTAGCTCAGACCCTCTGATCCAACCTCCAGCCCTGCTGTGTGCC
 AGAGCCACTTCTCTCTAAACACGTCTTCTGTCACTTCCCGAACTGGCAGTTCTGG
 AGCAAAGGAGATGAAACTCAAGGGGGCTGATGGTAAAACGAAGATCGCCACACCGCGGG
 AGCAGCCCTCCAGGCCAGAAGGGCCAGGCCAACGCCACCAGGATTCAGCAAAAACCC
 GCCCGCTCAAAGACACCACCCAGCTCTGGTGAACCTCCAAAATCAGGGGATCGCAGCG
 CTACAGCAGCCCGGCTCCCCAGGCACTCCCGGACGCCGCTCCCGCACCCCGTCCCTTCC
 AACCCACCCACCCGGGAGCCAAAGAAGGTGGCAGTGGTCCGTACTCCACCCAAGTCGCC
 GTCTTCCGCCAAGAGCCGCTGCAGACAGCCCGTGCCCATGCCAGACCTGAAGAATGT
 CAAGTCCAAGATCGGCTCCACTGAGAACCTGAAGCACCAGCCGGGAGGCGGGAAGGTGCA
 GATAATTAATAAGAAGCTGGATCTTAGCAACGTCCAGTCCAAGTGGGCTCAAAGGATAA
 TATCAAACACGTCCCGGAGGCGGCAGTGTGCAAAATAGTCTACAAACCAGTTGACCTGAG
 CAAGGTGACCTCAAAGTGTGGCTCATTAGGCAACATCCATCATAAACCAGGAGGTGGCCA
 GGTGGAAGTAAAACTGAGAAGCTTGAATCAAGGACAGAGTCCAGTCAAGATTGGGTC
 CCTGGACAATATACCCACGTCCCTGGCGGAGGAAATAAAAAGATTGAAACCCACAAGCT
 GACCTTCCGCGAGAACGCCAAAGCCAAGACAGACCAGGGGCGGAGATCGTGTACAAGTC
 GCCAGTGGTGTCTGGGACACGTCTCCACGGCATCTCAGCAATGTCTCTCCACCGGCAG
 CATCGACATGGTAGACTCGCCCCAGCTCGCCACGCTAGCTGACGAGGTGTCTGCCTCCCT
 GGCCAAGCAGGGTTTGTGATCAGGCCCTGGGGCGGTCAATAATTGTGGAGAGGAGAGAA
 TGAGAGAGTGTGAAAAAAGAATAATGACCCGGCCCCCGCCCTGCCCCCAGCTGC
 TCCTCGCAGTTTCGGTTAATTGGTTAATCACTTAACCTGCTTTTGTCACTCGGCTTTGGCT
 CGGGACTTCAAATCAGTGATGGGAGTAAGAGCAAATTTTCATCTTCAAATTTGATGGGT
 GGGCTAGTAATAAATATTTAAAAA

Restriction Sites: Please inquire

ACCN:	NM_016835
Insert Size:	3000 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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:	<u>NM_016835.1, NP_058519.1</u>
RefSeq Size:	3747 bp
RefSeq ORF:	2277 bp
Locus ID:	4137
UniProt ID:	<u>P10636</u>
Cytogenetics:	17q21.31
Domains:	tubulin-binding
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 (1) lacks one internal coding exons, as compared to variant 6. The reading frame is not affected, and the resulting isoform (1) has identical N- and C-termini but lacks one segment, 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.