

Product datasheet for **SC318980**

Tau (MAPT) (NM_001123066) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Tau (MAPT) (NM_001123066) 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) |



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001123066 edited
 CTTTGAACCAGGATGGCTGAGCCCCGCCAGGAGTTCGAAGTGATGGAAGATCACGCTGGG
 ACGTACGGGTTGGGGGACAGGAAAGATCAGGGGGCTACACCATGCACCAAGACCAAGAG
 GGTGACACGGACGCTGGCCTGAAAGAATCTCCCTGCAGACCCCACTGAGGACGGATCT
 GAGGAACCGGGCTCTGAAACCTGTATGCTAAGAGCACTCCAACAGCGGAAGATGTGACA
 GCACCCCTTAGTGGATGAGGGAGCTCCCGCAAGCAGGCTGCCGCGAGCCCCACACGGAG
 ATCCCAGAAGGAACACAGCTGAAGAAGCAGGCATTGGAGACACCCCAAGCCTGGAAGAG
 GAAGTGTGGTACGTGACCAAGAGCCTGAAAGTGGTAAGGTGGTCCAGGAAGGCTTC
 CTCGAGAGCCAGGCCCCCAAGTCTGAGCCACCAGCTCATGTCCGGCATGCCTGGGGCT
 CCCCTCTGCCTGAGGGCCCCAGAGAGGCCACACGCCAACCTTCGGGGACAGGACCTGAG
 GACACAGAGGGGCGCCGACGCCCCCTGAGCTGCTCAAGCACCAGCTTCTAGGAGACCTG
 CACCAGGAGGGGCGCCGCTGAAGGGGGCAGGGGGCAAAGAGAGGCCGGGGAGCAAGGAG
 GAGGTGGATGAAGACCGGACGTCGATGAGTCTCCCCCAAGACTCCCCTCCCTCCAAG
 GCCTCCCAGCCAAGATGGGCGGCTCCCAGACAGCCGACAGAGAAGCCACCAGCATC
 CCAGGCTCCCAGCGGAGGTGCCATCCCCTCCCTGTGGATTTCTCTCAAAGTTTCC
 ACAGAGATCCCAGCCTCAGAGCCGACGGGCCAGTGTAGGGCGGCCAAAGGGCAGGAT
 GCCCCCTGGAGTTCACGTTTACGTGGAATCACACCAACGTGCAGAAGGAGCAGGCG
 CACTCGGAGGAGCATTGGGAAGGGCTGCATTTCCAGGGGCCCTGGAGAGGGGCCAGAG
 GCCCGGGGCCCTCTTTGGGAGAGGACACAAAAGGGTGAACCTTCCAGAGCCCTCTGAA
 AAGCAGCTGCTGCTGCCGCGGGGAAGCCCGTCAGCCGGTCCCTCAACTCAAAGCT
 CGCATGGTCAGTAAAAGCAAAGACGGGACTGGAAGCGATGACAAAAAGCCAAGACATCC
 ACACGTTCTCTGCTAAAACCTTAAAAATAGGCCTTGCCTTAGCCCCAACACCCCACT
 CCTGGTAGCTCAGACCCCTGATCCAACCCTCCAGCCCTGCTGTGTGCCAGAGCCACT
 TCCTCTCTAAACACGCTCTTCTGTCACTTCCGAACTGGCAGTTCTGGAGCAAAGGAG
 ATGAAACTCAAGGGGCTGATGGTAAAACGAAGATCGCCACACCGCGGGAGCAGCCCT
 CCAGGCCAGAAGGGCCAGGCCAACGCCACCAGGATTCCAGCAAAAACCCGCCCCCTCCA
 AAGACACCACCCAGCTCTGCGACTAAGCAAAGTCCAGAGAAGACCACCCCTGCAGGGCC
 AGATCTGAGAGAGGTGAACCTCCAAAATCAGGGGATCGCAGCGGTACAGCAGCCCCGGC
 TCCCCAGGCACTCCCGCAGCCGCTCCCGACCCCGTCCCTTCAAACCCACCCACCCGG
 GAGCCCAAGAAGGTGGCAGTGGTCCGTACTCCACCAAGTCGCCGCTTCCGCCAAGAGC
 CGCTGCAGACAGCCCCGTGCCATGCCAGACCTGAAGATGTCAAGTCCAAGATCGGC
 TCCACTGAGAACCTGAAGCACCAGCCGGAGGCGGAAGGTGCAGATAATTAATAAGAAG
 CTGGATCTTAGCAACGTCCAGTCCAAGTGTGGCTCAAAGGATAATATCAAACACGTCCTCG
 GGAGGGCGCAGTGTGCAATAGTCTACAAACCAGTTGACCTGAGCAAGGTGACCTCCAAG
 TGTGGCTCATTAGGCAACATCCATCATAAACAGGAGGTGGCCAGGTGGAAGTAAAATCT
 GAGAAGCTTGACTTCAAGGACAGAGTCCAGTCAAGATTGGGTCCTGGACAATATCACC
 CACGTCCTGGCGGAGGAAATAAAAAGATTGAAACCCACAAGCTGACCTTCCGCGAGAAC
 GCCAAAGCCAAGACAGACCACGGGGCGGAGATCGTGTACAAGTCGCCAGTGGTGTCTGGG
 GACACGCTCCACGGCATCTCAGCAATGTCTCTCCACCGGCAGCATCGACATGGTAGAC
 TCGCCCCAGCTCGCCACGCTAGCTGACGAGGTGTCTGCCTCCCTGGCCAAGCAGGGTTTG
 TGA

Restriction Sites: Please inquire
ACCN: NM_001123066
Insert Size: 6816 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: | 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. |
| 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_001123066.1</u> , <u>NP_001116538.1</u> |
| RefSeq Size: | 6816 bp |
| RefSeq ORF: | 6816 bp |
| Locus ID: | 4137 |
| UniProt ID: | <u>P10636</u> |
| Cytogenetics: | 17q21.31 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Alzheimer's disease, MAPK signaling pathway |
| Gene Summary: | <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 (6) encodes the longest 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> |