

Product datasheet for RC233929

Tau (MAPT) (NM_001203251) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tau (MAPT) (NM_001203251) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tau
Synonyms:	DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; tau-40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233929 representing NM_001203251 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGCCCCGCCAGGAGTTCGAAGTGATGGAAGATCACGCTGGGACGTACGGGTTGGGGGACAGGA
AAGATCAGGGGGCTACACCATGCACCAAGACCAAGAGGGTGACACGGACGCTGGCCTGAAAGAATCTCC
CCTGCAGACCCCCACTGAGGACGGATCTGAGGAACCGGGCTCTGAAACCTCTGATGCTAAGAGCACTCCA
ACAGCGGAAGCTGAAGAAGCAGGCATTGGAGACACCCCCAGCCTGGAAGACGAAGCTGCTGGTCACTGA
CCCAAGCTCGCATGGTCAGTAAAAGCAAAGACGGGACTGGAAGCGATGACAAAAAGCCAAGGGGCTGA
TGGTAAAACGAAGATCGCCACACCGGGGAGCAGCCCTCCAGGCCAGAAGGGCCAGGCCAACGCCACC
AGGATTCAGCAAAAACCCCGCCGCTCCAAGACACCACCCAGCTCTGGTGAACCTCCAAAATCAGGGG
ATCGCAGCGGCTACAGCAGCCCCGGCTCCCCAGGCACTCCCGCAGCCGCTCCCGCACCCCGTCCCTTCC
AACCCACCCACCCGGGAGCCCAAGAAGGTGGCAGTGGTCCGTAATCCACCCAAGTCGCCGCTTCCCGCC
AAGAGCCGCTGCAGACAGCCCCGTGCCATGCCAGACCTGAAGAAATGTCAAGTCCAAGATCGGCTCCA
CTGAGAACCTGAAGCACCAGCCGGGAGGGGGAAGGTGCAAAATAGTCTACAAACCAAGTTGACCTGAGCAA
GGTGACCTCCAAGTGTGGCTCATTAGGCAACATCCATCATAAACCAGGAGGTGGCCAGGTGGAAGTAAAA
TCTGGAAGCTTGACTTCAAGGACAGAGTCCAGTCAAGATTGGGTCCTGGACAATATCACCCAGCTCC
CTGGCGGAGAAAATAAAAGATTGAAACCCACAAGCTGACCTTCCGCGAGAACGCCAAAGCCAAGACAGA
CCACGGGGCGGAGATCGTGTACAAGTCGCCAGTGGTGTCTGGGGACACGCTCCACGGCATCTCAGCAAT
GTCTCCTCCACCGGCAGCATCGACATGGTAGACTCGCCCCAGCTCGCCACGCTAGCTGACGAGGTGTCTG
CCTCCCTGGCCAAGCAGGGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233929 representing NM_001203251
 Red=Cloning site Green=Tags(s)

MAEPRQEFVEMDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPTEGSEEPGSETSDAKSTP
 TAEAEAEAGIGDTPSLEDEAAGHVTQARMVSKSKDGTGSDDKAKAGADGKTKIATPRGAAPPQKQANAT
 RIPAKTPPAPKTPPSSGEPKSGDRSGYSPGSPGTPGSRRTPSLTPPTREPKKVAVVRTPPKSPSSA
 KSRLQTAPVMPDLKNVKSKIGSTENLKHQPPGGKQVQIVYKPVDSLKVTSKCGSLGNIHHKPGGGQVEVK
 SEKLDKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSQDTPSPRHL
 VSSTGSIDMVDSPLATLADEVASLAKQGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/ja3785_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001203251

ORF Size: 1143 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001203251.2](#)

RefSeq Size: 5631 bp

RefSeq ORF: 1146 bp

Locus ID: 4137

Cytogenetics: 17q21.31

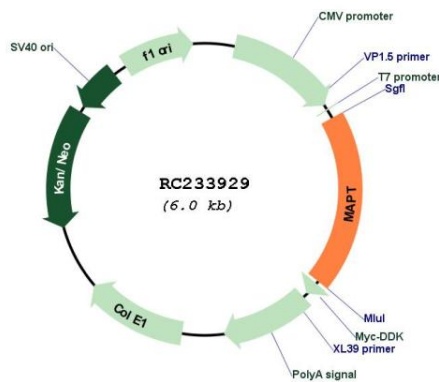
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, MAPK signaling pathway

MW: 39.7 kDa

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]

Product images:



Circular map for RC233929