*h*Tau VersaClone cDNA

Catalog Number: RDC1864

Specifications:

Gene:	*h*MAPT
Accession:	NP_058518
Insert size:	1165bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

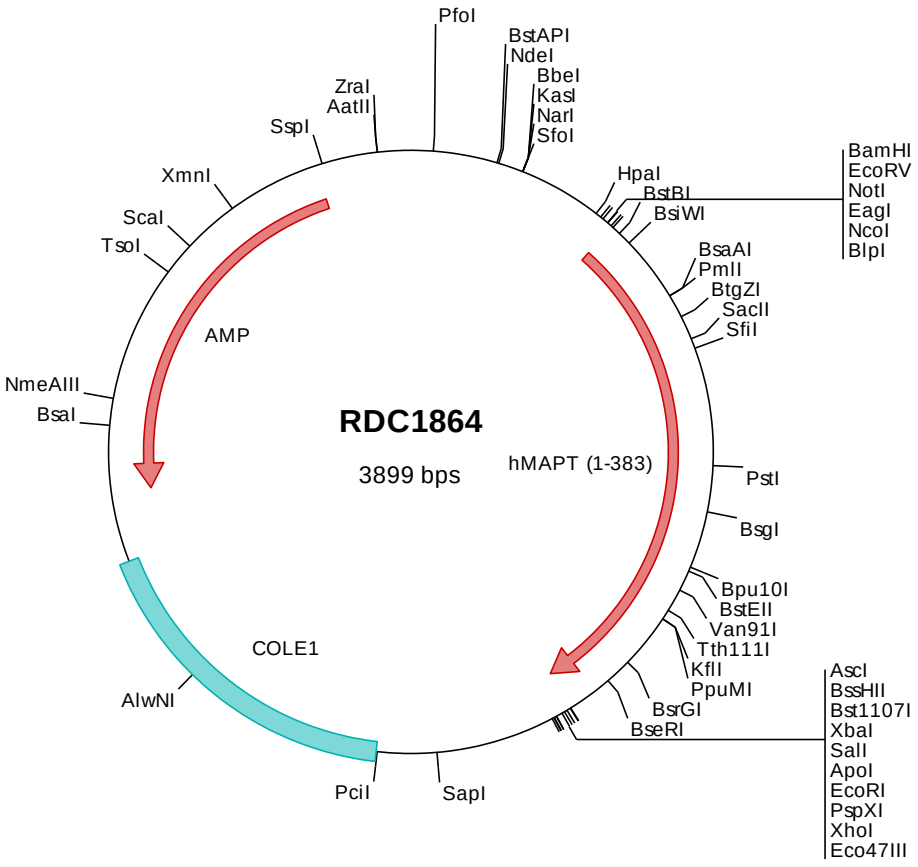
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Tau cDNA Plasmid

MAPT microtubule associated protein tau [*Homo sapiens* (human)]

Also known as: TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; PPP1R103

Summary:
MAPT is a microtubule-associated protein primarily expressed in neurons. It can associate with microtubules through the carboxy-terminal domains and with the plasma membrane through the amino-terminal projection domain. MAPT has a role as a stabilizer of microtubules. Abnormal MAPT phosphorylation or splicing is associated with various neurological disorders. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC1864 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggctgagc cccgccagga gttcgaagtg atggaagatc acgctgggac
 501  gtacgggttg ggggacagga aagatcaggg gggctacacc atgcaccaag accaagaggg tgacacggac gctggcctga aagctgaaga agcaggcatt
 601  ggagacaccc ccagcctgga agacgaagct gctggtcacg tgacccaagc tcgcatggtc agtaaaagca aagacgggac tggaagcgat gacaaaaaag
 701  ccaagggggc tgatggtaaa acgaagatcg ccacaccgcg gggagcagcc cctccaggcc agaagggcca ggccaacgcc accaggattc cagcaaaaac
 801  cccgcccgct ccaaagacac cacccagctc tggtgaacct ccaaaatcag gggatcgcag cggctacagc agccccggct ccccaggcac tcccggcagc
 901  cgctcccgca ccccgtccct tccaacccca cccacccggg agcccaagaa ggtggcagtg gtccgtactc cacccaagtc gccgtcttcc gccaagagcc
1001  gcctgcagac agcccccgtg cccatgccag acctgaagaa tgtcaagtcc aagatcggct ccactgagaa cctgaagcac cagccgggag gcgggaaggt
1101  gcagataatt aataagaagc tggatcttag caacgtccag tccaagtgtg gctcaaagga taatatcaaa cacgtcccgg gaggcggcag tgtgcaaata
1201  gtctacaaac cagttgacct gagcaaggtg acctccaagt gtggctcatt aggcaacatc catcataaac caggaggtgg ccaggtggaa gtaaaatctg
1301  agaagcttga cttcaaggac agagtccagt cgaagattgg gtccctggac aatatcaccc acgtccctgg cggaggaaat aaaaagattg aaacccacaa
1401  gctgaccttc cgcgagaacg ccaaagccaa gacagaccac ggggcggaga tcgtgtacaa gtcgccagtg gtgtctgggg acacgtctcc acggcatctc
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1701  attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt
1801  gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct
1901  tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa aggcggtaat acggttatcc acagaatcag
2001  gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt gctggcgttt ttccataggc tccgcccccc
2101  tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag gcgtttcccc ctggaagctc cctcgtgcgc
2201  tctcctgttc cgaccctgcc gcttaccgga tacctgtccg cctttctccc ttcgggaagc gtggcgcttt ctcaatgctc acgctgtagg tatctcagtt
2301  cggtgtaggt cgttcgctcc aagctgggct gtgtgcacga acccccgttc agcccgacc gctgcgcctt atccggtaac tatcgtcttg agtccaaccc
2401  ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag gtatgtaggc ggtgctacag agttcttgaa gtggtggcct
2501  aactacggct acactagaag gacagtattt ggtatctgcg ctctgctgaa gccagttacc ttcggaaaaa gagttggtag ctcttgatcc ggcaaacaaa
2601  ccaccgctgg tagcggtggt ttttttgttt gcaagcagca gattacgcgc agaaaaaaag gatctcaaga agatcctttg atcttttcta cggggtctga
2701  cgctcagtgg aacgaaaact cacgttaagg gattttggtc atgagattat caaaaaggat cttcacctag atccttttaa attaaaaatg aagttttaaa
2801  tcaatctaaa gtatatatga gtaaacttgg tctgacagtt accaatgctt aatcagtgag gcacctatct cagcgatctg tctatttcgt tcatccatag
2901  ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacca tctggcccca gtgctgcaat gataccgcga gacccacgct caccggctcc
3001  agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac tttatccgcc tccatccagt ctattaattg ttgccgggaa
3101  gctagagtaa gtagttcgcc agttaatagt ttgcgcaacg ttgttgccat tgctacaggc atcgtggtgt cacgctcgtc gtttggtatg gcttcattca
3201  gctccggttc ccaacgatca aggcgagtta catgatcccc catgttgtgc aaaaaagcgg ttagctcctt cggtcctccg atcgttgtca gaagtaagtt
3301  ggccgcagtg ttatcactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga tgcttttctg tgactggtga gtactcaacc
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3601  atcttttact ttcaccagcg tttctgggtg agcaaaaaca ggaaggcaaa atgccgcaaa aaagggaata agggcgacac ggaaatgttg aatactcata
3701  ctcttccttt ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat gtatttagaa aaataaacaa atagggggttc
3801  cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt atcacgaggc cctttcgtc
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> RDC1864 Translated Insert Sequence

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 101  ppgqkgqana tripaktppa pktppssgep pksgdrsgys spgspgtpgs rsrtpslptp ptrepkkvav vrtppkspss aksrlqtapv pmpdlknvks
 201  kigstenlkh qpgggkvqii nkkldlsnvq skcgskdnik hvpgggsvqi vykpvdlskv tskcgslgni hhkpgggqve vksekldfkd rvqskigsld
 301  nithvpgggn kkiethkltf renakaktdh gaeivykspv vsgdtsprhl snvsstgsid mvdspqlatl adevsaslak qgl
```