

## Product datasheet for **MR226202**

### **Mapt (NM\_001038609) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mapt (NM_001038609) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapt
Synonyms:	AI413597; AW045860; Mtapt; Tau
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR226202 representing NM\_001038609  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGACCCTCGCCAGGAGTTTGACACAATGGAAGACCATGCTGGAGATTACACTCTGCTCCAAGACC  
 AAGAAGGAGACATGGACCATGGCTTAAAAGAGTCTCCCCACAGCCCCCGCCGATGATGGAGCGGAGGA  
 ACCAGGGTCGGAGACCTCCGATGCTAAGAGCACTCCAACCTGCTGAAGACGTGACTGCGCCCCCTAGTGGAT  
 GAGAGAGCTCCCGACAAGCAGGCCGCTGCCAGCCCCACACGGAGATCCCAGAAGGAATTACAGCCGAAG  
 AAGCAGGCATCGGAGACACCCCGAACAGGAGGACCAAGCCGCTGGGCATGTGACTCAAGCTCGTGTGGC  
 CAGCAAAGACAGGACAGGAAATGACGAGAAGAAAGCCAAGGGCGCTGATGGCAAACCGGGGCGAAGATC  
 GCCACACCTCGGGGAGCAGCCTCTCCGGCCAGAAGGGCAGCTCAACGCCACCAGGATCCCGGCCAAGA  
 CCACGCCAGCCCTAAGACTCCTCCAGGGTCAGGTGAACCACAAAATCCGGAGAACGAAGCGGCTACAG  
 CAGCCCCGGCTCTCCCGAACGCTGGCAGTCGCTCGCGCACCCCATCCCTACCAACACCCGCCACCCGG  
 GAGCCCAAGAAGGTGGCAGTGGTCCGCACTCCCCCTAAGTCACCATCAGCTAGTAAGAGCCGCTGCAGA  
 CTGCCCTGTGCCATGCCAGACCTAAAGAATGTCAGGTGGAAGATTGGCTCTACTGAGAACCTGAAGCA  
 CCAGCCAGGAGGTGGCAAGTGCAGATAATTAATAAGAAGCTGGATCTTAGCAACGTCCAGTCCAAGTGT  
 GGCTCGAAGGATAATATCAAACAGTCCCGGGTGGAGGCAGTGTGCAAAATAGTCTACAAGCCGGTGGACC  
 TGAGCAAAGTGACCTCCAAGTGTGGCTCGTTAGGGAACATCCATCACAAGCCAGGAGGTGGCCAGGTGGA  
 AGTAAATCAGAGAAGCTGGACTTCAAGGACAGAGTCCAGTCGAAGATTGGCTCCTTGGATAATATCACC  
 CACGTCCTGGAGGAGGAATAAGAAGATTGAAACCCACAAGCTGACCTCAGGGAGAATGCCAAAGCCA  
 AGACAGACCATGGAGCAGAAATTGTGATAAGTCACCCGTGGTGTCTGGGGACACATCTCCACGGCACCT  
 CAGCAATGTGTCTTCCACGGGCAGCATCGACATGGTGGACTCACACAGCTTGCCACACTAGCCGATGAA  
 GTGTCTGCTTCTTGCCAAGCAGGTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226202 representing NM\_001038609  
 Red=Cloning site Green=Tags(s)

MADPRQEFDTMEDHAGDYTLQDQEGDMDHGLKESPPQPPADDGAEPEGSETSDAKSTPTAEDVTAPLVD  
 ERAPDKQAAAQPHTEIPEGITAEAEAGIGDTPNQEDAAGHVTQARVASKDRTGNDEKKAKGADGKTGAKI  
 ATPRGAASPAQKGTSNATRIPAKTTPSPKTPPGSGEPPKSGERSGYSSPGSPGTPGSRSRTPSLTPPTR  
 EPKKVAVVRTPPKSPSASKSRLQTAPVMPDLKNVRSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKC  
 GSKDNIKHVPPGGSVQIVYKPVDLKVTSKCGSLGNIHHKPGGGQVEVKSEKLDKDRVQSKIISLDNIT  
 HVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSAGTSPRHL SNVSSTGSIDMVSPQLATLADE  
 VSASLAKQGL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

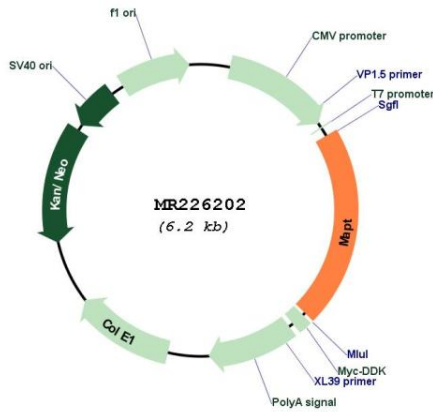
SgfI-MluI



**MW:** 44.9 kDa

**Gene Summary:** Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226202