

## Product datasheet for **MC220522**

### **Mctp1 (NM\_030174) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mctp1 (NM_030174) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mctp1
Synonyms:	2810465F10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220522 representing NM\_030174  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACCAGTTGGATATCACACTAAGAAGGGTCAAAGTTTAGCTGCCCGTGATCGAGGAGGACAAGCG  
 ATCCGTATGTGAAGTTTAAAATTGGAAGAAAAGAAGTTTTTAGAAGCAAATTATCCACAAGAACCCTAAA  
 TCCTGTGTGGGAGGAAAAGGCTTGCCTGCTCATTGACCATCTTAGAGAGCCACTATATATCAAGGTATT  
 GACTATGATTTTGGACTGCAAGATGACTTTATGGGCTCAGCCTTTCTTGATCTCACTCAGTTGGAGTTAA  
 ACAGGTCCACAGATGTTACCCTAACTCTGAAAGACCCCATATCCTGACCATGACCTTGGAAATCATTTT  
 GCTGTCAGTCATCCTTACGCCTAAGGAAGGTGAACACAGGGATGTGACAATGCTAATGAGGAAGAGTTGG  
 AAAAGATCCAGTAAGTTTACGACCCAAAGTTTACGCCTGTCCGACCAGCACAGGAAATCACACCTTTGGA  
 GAGGAATAGTCAGCATCACCTTGATTGAGGGTCGAGATCTCAAAGCAATGGATTCCAATGGGTTGAGTGA  
 TCCATATGTGAAGTTCCGGCTTGGCCATCAGAAGTACAAGAGCAAGATTATGCCAAAACCTTTGAACCTT  
 CAGTGGAGGGAGCAATTTGATTTCCATCTCTATGAAGAAAAGAGGTGGGATCATGGACATCACTGCCTGGG  
 ACAAAGATGCTGGGAAAAGAGATGACTTTATTGGAAGGTGCCAGGTTGACCTGTCTTCCCTCAGTAGGGA  
 GCAAACCTACAAGCTGGAGTTACATCTGGAAGAGGGTGAGGGCCACCTGGTTCTGCTTGTCACTCTGACA  
 GCCTCGGCCACAGTCTGTATCTCTGACCTCTGTCAATCCATGGAGGACCAGAAGGAGCGGGAAGAGA  
 TATTAAGAGATATAGCCCACTGAGGATATTTAAACAACCTAAAAGACGTGGGATTTCTCCAGGTGAAAGT  
 CATCAGAGCAGAAGGTTTGTGGCTGCAGATGTACAGGTAAGTATCCATTTTGTGTAGTAGAACTG  
 AACATGATAGGCTGCTAACACACACTGTGTACAAAACCTCAATCCTGAGTGAACAAAAGTGTTCACAT  
 TTAACATTAAGACATTCATTGAGTTCTTGAAGTGACAGTTTATGATGAAGATCGTGACCGGAGTGCCGA  
 CTTTCTGGGCAGAGTCGCTATACCATTGCTGTCTATTCAAATGGTGAACAGAAAAGCCTACGTCTTGAAA  
 AACAAAGCAGTGCAGGGCCAACAAGGGGTCATCTATCTTGAATAGATGTGATTTTTAATGCTGTGA  
 AAGCCAGCTTACGAACATTAATACCCAAAGAACGGAAGTACATTGAAGAGGAAAACAGACTCTCTAAACA  
 GCTGCTTCTAAGAACTTTATCAGAACAAAACGTTGTGTCATAGTGCTTGTAAACGCTGCATACTACGTT  
 AATAGTTGCTTTGATTGGGATTCGCCCCAAGGAGTCTTGCTGCTTTTGTGCTTTTCTCCTCATTGTCT  
 GGAACCTTGAGCTCTACATGATACCCTGCTGCTGTTGTTACTATTGACATGGAACACTCTCCTGATAAT  
 ATCCGGGAAAAGACAACAGGCAACGGGACACAGTAGTGGAGGACATGCTGGAGGACGAAGAGGAAGAAGT  
 GACAGAGATGACAAGGATGGTGAAGAAAGGATTTATAAATAAAATCTATGCGATCCAGGAAGTCTGTG  
 TCAGTGTGCAGAACATCCTAGATGAAGTGGCTTCCCTTGGTGAAGGATAAAGAATACTTTCAACTGGAC  
 TGTCCTTCTTAAGCTGGCTGGCCATTGTAGCCCTGTGTGTTTACCAGCCATTCTGTACTTCATCCCA  
 CTGAGATACATTGTTCTTGTGGGGAATTAATAAATTTACAAAAAGCTTCGGAGTCCATATGCAATTG  
 ATAACATGAACTACTTGACTTCCTTTCCAGAGTTCCTTCAGATGTACAAGTGGTGCAGTACCAAGAAGT  
 GAAACCAGATCATTCTCATAGCCCATACAAAAGGAAGAAAACAACCTTGGCT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_030174
- Insert Size:** 2085 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).
- 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\\_030174.2](#), [NP\\_084450.2](#)

**RefSeq Size:** 4289 bp

**RefSeq ORF:** 2085 bp

**Locus ID:** 78771

**Cytogenetics:** 13 C1

**Gene Summary:** Calcium sensor which is essential for the stabilization of normal baseline neurotransmitter release and for the induction and long-term maintenance of presynaptic homeostatic plasticity.[UniProtKB/Swiss-Prot Function]