

## Product datasheet for **SC337215**

### **MCTP1 (NM\_001297777) Human Untagged Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | MCTP1 (NM_001297777) Human Untagged Clone |
| Tag:                      | Tag Free                                  |
| Symbol:                   | MCTP1                                     |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001297777, the custom clone sequence may differ by one or more nucleotides

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ATGCTAGACAGCTGCAAGCTGAAAAGTGCCTGCAATTTGCCATTTATTTGTAATAAGAAAATAATAAACA
CTGCTGGAACCAAGTAATGCAGAAGTCCCCTTGGCTGATCCCGAATGTACCAGCTGGACATTACATTAAG
AAGGGGTCAAAGTTTAGCTGCTCGAGATCGAGGAGGACGAGTGATCCATATGTGAAGTTTAAATCGGA
GGAAAAGAAAGTTTTAGAAAGTAAGATAATACACAAGAACCCTCAACCCTGTGTGGGAAGAAAAGCTTGTA
TTCTGGTTGATCATCTTAGGGAGCCATTGTATATAAAGGTATTTGACTATGATTTTGGACTACAGGATGA
CTTTATGGGCTCAGCCTTTCTGGATCTGACACAATTGGAGTTAAACAGGCCACAGATGTGACCCTTACT
CTGAAAGATCCTCATTATCCTGACCATGATCTTGAATCATTTTCTCAGTCATCCTTACCCCTAAAG
AAGGAGAGTCCAGGGATGTGACAATGCTAATGAGGAAGAGTTGGAAAAGATCAAGTAAGTTTCAGACCCA
AAGTTTACGCCTATCAGACCTACACAGAAAATCGCATCTTTGGAGAGGAATAGTCAGCATCACCTTGATT
GAAGGGAGAGACCTCAAGGCCATGGATTCCAACGGGTTGAGCGATCCCTACGTGAAGTTCCGGCTTGGGC
ATCAGAAGTACAAGAGCAAGATTATGCCAAAACGTTGAATCCTCAGTGGAGGGAACAATTTGATTTTCA
CCTTTATGAAGAAAGAGGAGGAGTCATTGATATCACTGCATGGGACAAAGATGCTGGGAAAAGGGATGAT
TTCATTGGCAGGTGCCAGGTGCGACCTGTGAGCCCTCAGTAGGGAACAGACGCACAAGCTGGAGTTGCAGC
TGGAAGAGGGTGAGGGACACCTGGTGCTGCTGCTCACTCTGACAGCATCAGCCACAGTCAGCATCTCTGA
CCTGTCTGTCAACTCCCTGGAGGACCAGAAGGAACGAGAGGAGATATTAAGAGATATAGCCATTGAGG
ATATTTCAACAACCTGAAAGATGTGGGATTTCTCCAGGTGAAAGTCATCAGAGCGGAAGGGTTAATGGCTG
CCGACGTCACTGGAAAAGTGACCCATTTGTGTGGTAGAACTGAACAACGATAGACTGCTAACACATAC
TGCTACAAAAATCTCAATCCTGAGTGAATAAAGTCTTCACGTTCAACATTAAGATATCCATTCAGTT
CTTGAAGTGACAGTTTATGATGAAGATCGGGATCGAAGTCTGACTTTCTGGGCAAAGTTGCTATACCAT
TGCTGTCTATTCAAAATGGTGAACAGAAAAGCCTACGTCTTGAAAACAAGCAGCTGACAGGGCCAACAAA
GGGGGTCTATCTTGAATAGATGTGATTTTAAATGCTGTGAAAGCCAGCTTACGAACATTAATACCC
AAAGAACAGAAGTACATTGAAGAGGAAAACAGACTCTCTAAACAGCTGCTACTAAGAACTTTATCAGAA
TGAAACGTTGTGTCATGGTGCTGGTAAATGCTGCATACTACGTTAATAGTTGCTTTGATTGGGATTACC
CCCAAGGAGTCTCGTGCTTTTGTGGTAGTGGAGGACATGCTAGAGGACGAGGAAGAAGAAGATGACAAA
GATGACAAGGACAGTGAAAAAAGGGATTATAAATAAAATCTATGCCATCCAGGAGGTATGTGTCAGTG
TCCAGAATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGATAAAGAATACTTTCAACTGGACTGTCCC
ATTCTTAAGCTGGCTGGCCATTGTAGCCCTCTGTGTGTTACAGCCATCCTGTACTGCATTCCGCTGAGA
TACATTGTCTTGTCTGGGCATCAATAAATTTACAAAAAGCTTCGGAGTCCATATGCAATTGATAACA
ATGAACACTTGACTTCCTTTCCAGAGTCCCTTCAGATGTACAAGTGGTGAATACCAAGAACTGAAACC
AGATCCTTCTCATAGCCCATATAAAAGAAAGAAAAACAATCTTGGCTAG
  
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001297777

**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).

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                  |
| <b>RefSeq:</b>                | <u>NM_001297777.1, NP_001284706.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>           | 4439 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq ORF:</b>            | 2079 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 79772                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u>Q6DN14</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 5q15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding sequence, and lacks three internal coding exons but maintains the reading frame, compared to variant L. The resulting isoform (3) has a shorter and distinct N-terminus and lacks two internal segments, compared to isoform L. 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> |