

## Product datasheet for **MC218158**

### **Cttn (BC011434) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cttn (BC011434) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cttn
Synonyms:	1110020L01Rik; Ems1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC011434  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTGAAAGCCTCTGCAGGCCATGCTGTGTCCATCACGCAGGATGATGGAGAGCTGATGACTGGGAGA  
CTGATCCTGATTTTGTGAATGATGTGAGTGAAAAGGAGCAGAGATGGGGTGCTAAAACCGTGCAGGGATC  
GGGACACCAGGAACACATCAACATTCACAAGCTTCGAGAGAATGTCTTCCAAGAACCAGACGCTCAAG  
GAGAAGGAGCTGGAAACGGGACCAAGGCTTCCCACGGCTATGGCGGGAAGTTCGGTGTGGAGCAGGATA  
GGATGGACAGATCAGCCGTGGGCCATGAGTACCAGTCAAGCTTTCGAAGCACTGCTCACAAGTGGACTC  
GGTCCGGGGCTTCGGAGGCAAGTTCGGTGTCCAGATGGACAGGGTGGATCAGTCTGCTGTAGGCTTTGAA  
TACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAAGACTACTCTAGTGGCTTCGGTGGCAAATACGGTG  
TGCAAGCTGACCGTGTAGACAAGAGTCCCGTGGGCTTTGACTACCAGGGCAAGACGGAGAAGCATGAGTC  
TCAGAAAGATTACTCAAAGTTTTGGTGGCAAATATGGGATTGACAAGGACAAGGTGGATAAAAGTGTCT  
GTGGGCTTTGAGTATCAAGGCAAGACAGAGAAGCACGAATCCCAGAAAGACTATGTAAAAGGCTTTGGAG  
GAAAGTTTGGTGTGCAGACAGACAGACAGGACAAGTGTGCCCTTGGCTGGGACCATCAGGAGAAGCTGCA  
GCTGCATGAATCCAAAAAGACTATGCCAAAGGATTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATG  
GACAAGAATGCATCCACCTTTGAAGAAGTGGTCCAGGTGCCATCTGCCTATCAGAAGACTGTCCCATTTG  
AGGCCGTAAACCAGCAAAACAGTAAATATCCGTGCTAACTTTGAAAACCTGGCAAAGGAGAGAGCAGGA  
GGACAGGCGGAAGGCAGAAGCCGAGAGAGCTCAGCGGATGGCCAAAGAAAGACAGGAGCAGGAGGAGGCG  
CGCAGGAAGCTGGAAGAGCAAGCCAGAGCAAGAAGCAGACGCCCCCTGCATCCCCTAGTCTCAACCAA  
TTGAAGACAGACCACCCTCCAGCCCCATCTATGAGGATGCAGTCCGTTCAAGGCCGAGCCGAGCTACCG  
AGGTAGCGAACCTGAGCCTGAGTACAGCATCGAGGCCGACGGCATTCTGAGGCTGGCAGCCAGCAAGGC  
CTGACCTATACATCAGAGCCCGTGTACGAGACTACAGAGGCTCCTGGCCACTATCAAGCAGAGGATGACA  
CCTACGATGGGTATGAGAGTGACCTGGGCATCACAGCCATCGCCCTGTATGACTACCAGGCTGTGGCGA  
TGATGAGATCTCCTTTGACCCTGATGACATCATACCAACATAGAAATGATTGACGATGGCTGGTGGCGT  
GGGGTGTGCAAGGGCAGATACGGGCTCTCCCAGCCAATATGTGGAGCTGCGGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC011434

Insert Size: 1530 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:** [BC011434](#), [AAH11434](#)

**RefSeq Size:** 2916 bp

**RefSeq ORF:** 1529 bp

**Locus ID:** 13043

**Cytogenetics:** 7 F5

**Gene Summary:** Contributes to the organization of the actin cytoskeleton and cell shape (PubMed:17403031). Plays a role in the formation of lamellipodia and in cell migration (By similarity). Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Through its interaction with CTTNBP2, involved in the regulation of neuronal spine density (PubMed:22262902). Plays a role in the invasiveness of cancer cells, and the formation of metastases (By similarity). Plays a role in focal adhesion assembly and turnover (By similarity). In complex with ABL1 and MYLK regulates cortical actin-based cytoskeletal rearrangement critical to sphingosine 1-phosphate (S1P)-mediated endothelial cell (EC) barrier enhancement (By similarity). Plays a role in intracellular protein transport and endocytosis, and in modulating the levels of potassium channels present at the cell membrane (PubMed:17959782). Plays a role in receptor-mediated endocytosis via clathrin-coated pits (By similarity). Required for stabilization of KCNH1 channels at the cell membrane (By similarity).[UniProtKB/Swiss-Prot Function]