

Product datasheet for **MC228098**

Cttn (NM_001252572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cttn (NM_001252572) 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: >MC228098 representing NM_001252572
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTGAAAGCCTCTGCAGGCCATGCTGTGTCCATCACGCAGGATGATGGAGAGCTGATGACTGGGAGA
CTGATCCTGATTTTGTGAATGATGTGAGTGAAAAGGAGCAGAGATGGGGTGCTAAAACCGTGCAGGGATC
GGGGCACCAGGAACACATCAACATTCACAAGCTTCGAGAGAATGTCTTCCAAGAACCAGACGCTCAAG
GAGAAGGAGCTGGAAACGGGACCAAGGCTTCCCACGGCTATGGCGGGAAGTTCGGTGTGGAGCAGGATA
GGATGGACAGATCAGCCGTGGGCCATGAGTACCAGTCAAGCTTCCAAGCACTGCTCACAAGTGGACTC
GGTCCGGGGCTTCGGAGGCAAGTTCGGTGTCCAGATGGACAGGGTGGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAAGACTACTCTAGTGGCTTCGGTGGCAAATACGGTG
TGCAAGCTGACCGTGTAGACAAGAGTCCCGTGGGCTTTGACTACCAGGGCAAGACGGAGAAGCATGAGTC
TCAGAAAGATTACTCAAAGTTTTGGTGGCAAATATGGGATTGACAAGGACAAGGTGGATAAAAGTGTCT
GTGGGCTTTGAGTATCAAGGCAAGACAGAGAAGCACGAATCCCAGAAAGACTATGTAAAAGGCTTTGGAG
GAAAGTTTGGTGTGCAGACAGACAGACAGGACAAGTGTGCCCTTGGCTGGGACCATCAGGAGAAGCTGCA
GCTGCATGAATCCAAAAAGACTATGCCAAAGGATTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATG
GACAAGAATGCATCCACCTTTGAAGAAGTGGTCCAGGTGCCATCTGCCTATCAGAAGACTGTCCCATTTG
AGGCCGTAAACCAGCAAAACAGTAAATATCCGTGCTAACTTTGAAAACCTGGCAAAGGAGAGAGAGCAGGA
GGACAGGCGGAAGGCAGAAGCCGAGAGAGCTCAGCGGATGGCCAAAGAAAGACAGGAGCAGGAGGAGGCG
CGCAGGAAGCTGGAAGAGCAAGCCAGAGCCAAGAAGCAGACGCCCCCTGCATCCCCTAGTCTCAACCAA
TTGAAGACAGACCACCCTCCAGCCCCATCTATGAGGATGCAGCTCCGTTCAAGGCCGAGCCGAGTACCG
AGGTAGCGAACCTGAGCCTGAGTACAGCATCGAGGCCGACAGGCATTCTGAGGCTGGCAGCCAGCAAGGC
CTGACCTATACATCAGAGCCCGTGTACGAGACTACAGAGGCTCCTGGCCACTATCAAGCAGAGGATGACA
CCTACGATGGGTATGAGAGTGACCTGGGCATCACAGCCATCGCCCTGTATGACTACCAGGCTGTGGCGA
TGATGAGATCTCCTTTGACCCTGATGACATCATACCAACATAGAAATGATTGACGATGGCTGGTGGCGT
GGGGTGTGCAAGGGCAGATACGGGCTCTCCAGCCAACATGTGGAGCTGCGGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252572

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001252572.1](#), [NP_001239501.1](#)

RefSeq Size: 3112 bp

RefSeq ORF: 1530 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]

Transcript Variant: This variant (2) lacks an alternate exon in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.