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Product datasheet for MR230309

Cttn (NM_001252572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cttn (NM_001252572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cttn
Synonyms:	1110020L01Rik; Ems1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR230309 representing NM_001252572
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAAAGCCTCTGCAGGCCATGCTGTGTCCATCACGCAGGATGATGGAGGAGCTGATGACTGGGAGA
CTGATCCTGATTTTGTGAATGATGTGAGTGAAAAGGAGCAGAGATGGGGTGCTAAAACCGTGCAGGGATC
GGGGCACCAGGAACACATCAACATTCACAAGCTTCGAGAGAATGTCTTCCAAGAACACCAGACGCTCAAG
GAGAAGGAGCTGGAAACGGGACCCAAGGCTTCCCACGGCTATGGCGGGAAGTTCGGTGTGGAGCAGGATA
GGATGGACAGATCAGCCGTGGGCCATGAGTACCAGTCGAAGCTTTCCAAGCACTGCTCACAAGTGGACTC
GGTCCGGGGCTTCGGAGGCAAGTTCGGTGTCCAGATGGACAGGGTGGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAAGACTACTCTAGTGGCTTCGGTGGCAAATACGGTG
TGCAAGCTGACCGTGTAGACAAGAGTGCCGTGGGCTTTGACTACCAGGGCAAGACGGAGAAGCATGAGTC
TCAGAAAGATTACTCCAAAGGTTTTGGTGGCAAATATGGGATTGACAAGGACAAGGTGGATAAAAGTGCT
GTGGGCTTTGAGTATCAAGGCAAGACAGAGAAGCACGAATCCCAGAAAGACTATGTAAAAGGCTTTGGAG
GAAAGTTTGGTGTGCAGACAGACAGACAGGACAAGTGTGCCCTTGGCTGGGACCATCAGGAGAAGCTGCA
GCTGCATGAATCCCAAAAAGACTATGCCAAAGGATTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATG
GACAAGAATGCATCCACCTTTGAAGAAGTGGTCCAGGTGCCATCTGCCTATCAGAAGACTGTCCCCATTG
AGGCCGTAACCAGCAAAACCAGTAATATCCGTGCTAACTTTGAAAACCTGGCAAAGGAGAGAGAGCAGGA
GGACAGGCGGAAGGCAGAAGCCGAGAGAGCTCAGCGGATGGCCAAAGAAAGACAGGAGCAGGAGGAGGCG
CGCAGGAAGCTGGAAGAGCAAGCCAGAGCCAAGAAGCAGACGCCCCCTGCATCCCCTAGTCCTCAACCAA
TTGAAGACAGACCACCCTCCAGCCCCATCTATGAGGATGCAGCTCCGTTCAAGGCCGAGCCGAGCTACCG
AGGTAGCGAACCTGAGCCTGAGTACAGCATCGAGGCCGCAGGCATTCCTGAGGCTGGCAGCCAGCAAGGC
CTGACCTATACATCAGAGCCCGTGTACGAGACTACAGAGGCTCCTGGCCACTATCAAGCAGAGGATGACA
CCTACGATGGGTATGAGAGTGACCTGGGCATCACAGCCATCGCCCTGTATGACTACCAGGCTGCTGGCGA
TGATGAGATCTCCTTTGACCCTGATGACATCATCACCAACATAGAAATGATTGACGATGGCTGGTGGCGT
GGGGTGTGCAAGGGCAGATACGGGCTCTTCCCAGCCAACTATGTGGAGCTGCGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

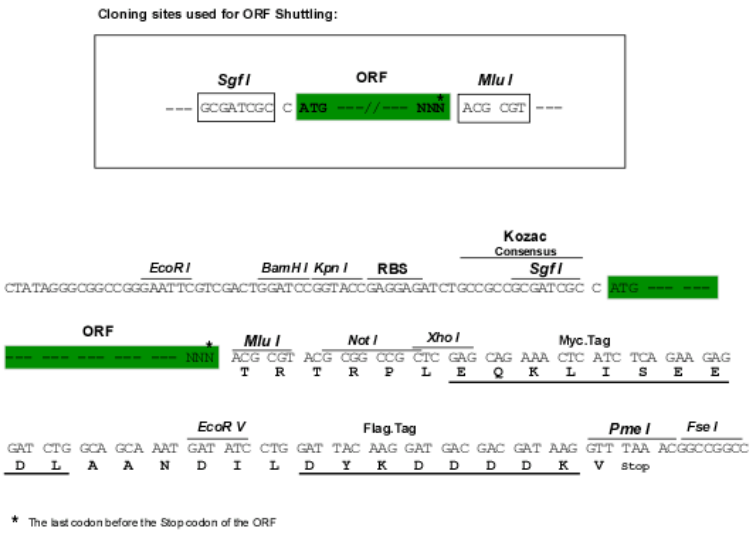
>MR230309 representing NM_001252572
Red=Cloning site Green=Tags(s)

MWKASAGHAVSITQDDGGADDWETDPDFVNDVSEKEQRWGAKTVQGSGHQEHINIHKLRENVFQEHQTLK
EKELETGPKASHGYGGKFGVEQDRMDRSAVGHEYQSKLSKHCSQVDSVRGFGGKFGVQMDRVDQSAVGFE
YQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFDYQGKTEKHESQKDYSKGFGGKYGIDKDKVDKSA
VGFEYQGKTEKHESQKDYVKGFGGKFGVQTDRQDKCALGWDHQEKLQLHESQKDYAKGFGGKYGVQKDRM
DKNASTFEEVVQVPSAYQKTVPIEAVTSKTSNIRANFENLAKEREQEDRRKAEAERAQRMAKERQEQEEA
RRKLEEQARAKKQTPPASPSPQPIEDRPPSSPIYEDAAPFKAEPSYRGSEPEPEYSIEAAGIPEAGSQQG
LTYTSEPVYETTEAPGHYQAEDDTYDGYESDLGITAIALYDYQAAGDDEISFDPDDIITNIEMIDDGWWR
GVCKGRYGLFPANYVELRQ

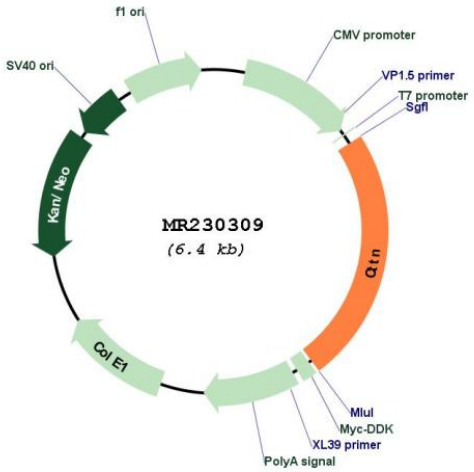
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001252572
ORF Size:	1527 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	57.5 kDa
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]