

Product datasheet for MR219445

Cnn1 (NM_009922) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn1 (NM_009922) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnn1
Synonyms:	CN; Cnnl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219445 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCTGCACATTTTAACCGAGGTCCTGCCTACGGCTTGTCTGCTGAAGTAAAGAACAAGCTGGCCC
AGAAATACGACCATCAGCGGGAGCAGGAGCTGAGAGAGTGGATTGAGGGGTGACAGGCCGGCGCATCGG
GAACAAC TTCATGGATGGCCTCAAAGATGGGATCATTCTTTGCGAATTTATCAACAAGCTGCAGCCGGT
TCTGTGAAGAAGGTCAATGAGTCAACTCAGAAGTGGCACCAGCTGGAGAACATAGGTAATTTATCAAAAG
CCATTACCAAGTATGGGGTGAAACCCACGACATCTTTGAGGCCAACGACCTGTTTGAAAACACCAACCA
TACACAAGTTCAGTCCACTCTCCTGGCTCTGGCCAGCATGGCCAAGACAAAAGGAAACAAAGTCAATGTG
GGAGTCAAGTATGCAGAGAAACAAGAGCGGAGATTTGAGCCGGAGAAGTTGAGAGAAGGCAGGAACATCA
TTGGACTGCAGATGGGCACCAACAAGTTTGCCAGTCAGCAGGGCATGACGGCCTATGGTACACGGCGTCA
CCTCTATGATCCCAAACTGGGTACAGATCAGCCTCTGGACCAGGGCACCATCAGCCTGCAGATGGGCACC
ACAAGGGTGCCAGCCAGGCTGGCATGACTGCACCAGGCACCAAGCGGCAGATCTTTGAGCCAGGTCTGG
GCATGGAACACTGCGACACACTCAACGTCAGCTGCAGATGGGCAGCAACAAGGGGGCCTCCAGAGGGG
CATGACAGTGTATGGGCTTCTCGCCAGGTGTACGATCCCAAGTACTGCCTGAACCCGGAGTACCCAGAG
CTGAGTGAGCCCACCCACAATCACCCCGCACAACTACTACAACCTCTGCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219445 protein sequence
Red=Cloning site Green=Tags(s)

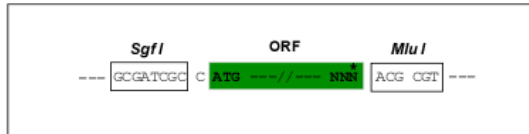
MSSAHFNRPAYGLSAEVKNKLAQKYDHRQEQELREWIEGVTGRRIGNNFMDGLKDGIIILCEFINKLQPG
 SVKKVNESTQNWHLNIGNFIKAITKYGVKPHDIFEANDLFENTNHTQVQSTLLALASMAKTGKNKVN
 GVKYAEKQERRFEPEKLREGRNIIGLQMGTKNFASQQGMTAYGTRRHL YDPKLGTDQPLDQATISLQMG
 NKGASQAGMTAPGTRQIFEPGLGMEHCDTLNLSLQMGSNKGASQRGMTVYGLPRQVYDPKYCLNPEYPE
 LSEPTNHHHPHNYNSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009922

ORF Size: 894 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_009922.1](#), [NM_009922.2](#), [NM_009922.3](#), [NM_009922.4](#), [NP_034052.3](#)

RefSeq Size: 1987 bp

RefSeq ORF: 894 bp

Locus ID: 12797

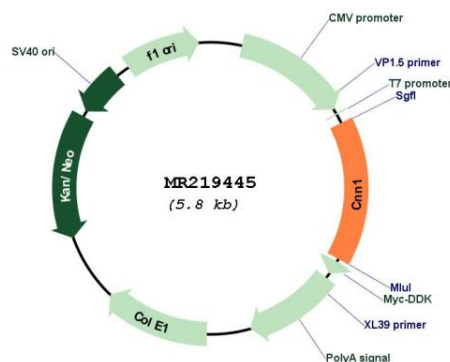
UniProt ID: [Q08091](#)

Cytogenetics: 9 A3

MW: 33.4 kDa

Gene Summary: Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219445