

## Product datasheet for MR204286

### Cnn2 (NM\_007725) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn2 (NM_007725) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnn2
Synonyms:	AA408047; AI324678; Calpo2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204286 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCTCCACGCAGTTCACAAGGGCCCGTCTACGGGCTCTCGGCCGAGGTCAAGAACC GGCTCCTGT  
CCAAATATGACCCCAAAGGAAGCAGAAGCTCCGAAGCTGGATAGAGGGACTCACGGGCCTCTCCATTGG  
CCCTGACTTCCAGAAGGGTCTGAAAGATGGGGTTATCCTATGCACACTCATGAACAAGCTGCAGCCAGGC  
TCCGTCCTAAAATCAACCGCTCTATGCAGAAGTGGCACCAGCTAGAAAATCTCTCCAATTCATCAAGG  
CCATGGTCAGCTACGGCATGAACCTGTGGACCTGTTTGAGGCCAATGACCTGTTTCGAGAGCGGGAACAT  
GACACAGGTGCAAGTGTCTCTGCTTGCCTGGCTGGAAAGGCCAAGACCAAGGGGCTGCAGAGTGGTGTG  
GACATTGGAGTTAAGTATTCGGAGAAAACAGGAGAGGAACTTTGACGACGCCACCATGAAGGCCGGCCAGT  
GCGTCACTCGGGCTGCAGATGGGCACCAACAAGTGTGCCAGCCAGTCTGGCATGACAGCCTATGGTACCAG  
GAGACATCTCTATGACCCCAAGAACCATATCCTGCCTCCCATGGACCACTGCACCATCAGCTCCAGATG  
GGCACCACAAGTGTGCCAGCCAGGTGGGCATGACAGCTCCAGGGACCCGGAGGCACATCTATGACACCA  
AGCTGGGCACCGACAAGTGGCACAACCTTCCATGTCCCTGCAGATGGGCTACACGCAGGGGCCAACCA  
GAGCGGTCAAGTCTTCGGACTGGGGCGGCAGATCTACGATCCCAAGTATTGCCACAGGGCTCTGCAGCT  
GACGGGGCTCTGCGGGTGACGGCCAAGGCGAGGCCCCAGAGTACCTGGCCTACTGCCAGGAGGAAGCTG  
GCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204286 protein sequence  
Red=Cloning site Green=Tags(s)

MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRSWIEGLTGLSIGPDFQKGLKDGVILCTLMNKLQPG  
 SVPKINRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKAKTKGLQSGV  
 DIGVKYSEKQERNFDDATMKAGQCVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHCTISLQM  
 GTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSSMSLQMGYTGANQSGQVFGLRQIYDPKYCPQGSAA  
 DGAPAGDGQGEAPEYLAYCQEAGY

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\_007725

**ORF Size:** 918 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\\_007725.2](#), [NP\\_031751.1](#)

**RefSeq Size:** 1800 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 12798

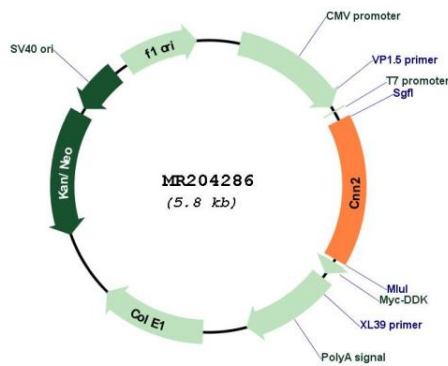
**UniProt ID:** [Q08093](#)

**Cytogenetics:** 10 C1

**MW:** 33.2 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 MR204286