

Product datasheet for **MR204859**

Cnn3 (NM_028044) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn3 (NM_028044) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnn3
Synonyms:	1600014M03Rik; C85854; Calpo3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204859 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCACTTCAACAAGGGCCCTTCTACGGGCTCTCCGCCGAAGTTAAGAACAAGATTGCATCCAAGT
ATGACCAGCAGGCCGAGGAAGATCTGCGCAACTGGATAGAAGAGGTGACAGGCCTAGGCATTGGCACCAA
CTTCCAGCTGGGGCTGAAGGACGGCATCATATTGTGCGAACTCATAAACAAGCTACAGCCAGGCTCTGTG
AAGAAAGTCAACGAATCCTCACTAAATTGGCCCCAGTTGGAGAATATCGGCAACTTCATTAAGCTATCC
AGGCTTACGGTATGAAGCCCCATGATATATTTGAAGCAAACGACCTCTTTGAGAATGGCAACATGACCCA
GGTTCAGACGACGCTGGTGGCTCTAGCAGGTCTGGCGAAAAACAAAGGATTCCATACAACATTGACATT
GGCGTTAAGTATGCAGAAAAACAAACAAGACGTTTTGATGAAGGCAAATTAAGGCTGGCCAGAGTGTA
TTGGTTTACAGATGGGTACCAACAAATGTGCCAGCCAGGCGGCATGACAGCCTATGGGACTCGGAGGCA
TCTTTATGATCCAAGATGCAGACGGACAAACCCTTTGACCAGACCAGATTAGCCTGCAGATGGGACC
AACAAAGGGCCAGCCAGGCTGGGATGTTAGCACCGGGCACCAGAAGAGACATCTATGACCAGAAGCTGA
CATTACAGCCAGTGGACAACCTGACCATTTCTCTACAGATGGGCACCAACAAAGTTGCTCCAGAAAGG
AATGAGCGTGTATGGGCTTGGCGGCAAGTATATGACCCCAAGTACTGTGCCACCCACAGAACCTGTC
ATTCACAACGGAAGCCAGGGCACGGCACCAATGGGTCGGAATCAGTGATAGCGATTATCAGGCAGAAT
ACCCCGATGAATATCATGGCGAGTACCCAGACGACTACCCTCGGGAGTACCAGTATGGCGACGACCAGGG
CATTGATTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204859 protein sequence
Red=Cloning site Green=Tags(s)

MTHFNKGPSYGLSAEVKNKIASKYDQQAEDLRNWIEEVTGLGIGTNFQLGLKDGIIICELINKLQPGSV
 KKVNESSLNWPQLENIGNFIKAIQAYGMKPHDIFEANLDFENGNTQVQTTLVALAGLAKTKGFHTTIDI
 GVKYAEKQTRRFDEGKLGKAGQSVIGLQMGTNKCCASQAGMTAYGTRRHL YDPKMQTDKPFQDTTISLQMG
 NKGASQAGMLAPGTRRDIYDQKLTLPVDNSTISLQMGTNKVASQKGMSSVYGLGRQVYDPKYCAAPTEPV
 IHNGSQGTGTNGSEISDSYQAEYPDEYHGEYDDYPREYQYGGDDQIDY

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_028044

ORF Size: 993 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_028044.2](#), [NP_082320.1](#)

RefSeq Size: 2003 bp

RefSeq ORF: 993 bp

Locus ID: 71994

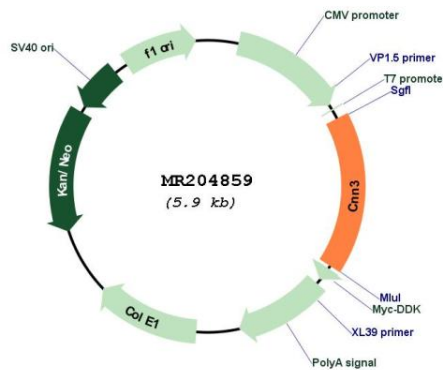
UniProt ID: [Q9DAW9](#)

Cytogenetics: 3 G1

MW: 36.4 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204859