

Product datasheet for MR203003

Cnn2 (BC008181) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn2 (BC008181) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnn2
Synonyms:	AA408047; AI324678; Calpo2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR203003 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAAGCTGCAGCCAGGCTCCGTCCCCAAATCAACCGCTCTATGCAAACTGGCACCAGCTAGAAA
ATCTCTCCAATTCATCAAGCCATGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTGAGGCCAATGA
CCTGTTTCGAGAGCGGGAACATGACACAGGTGCAAGTGTCTCTGCTTGCCTGGCTGGAAAGGCCAAGACC
AAGGGGCTGCAGAGTGGTGTGGACATTGGAGTTAAGTATTCGGAGAAACAGGAGAGGAACCTTGACGACG
CCACCATGAAGGCCGGCCAGTGCCTCATCGGGCTGCAGATGGGCACCAACAAGTGTGCCAGCCAGTCTGG
CATGACAGCCTATGGTACCAGGAGACATCTCTATGACCCTAAGAACCATATCCTGCCTCCCATGGACCAC
TGCACCATCAGCCTCCAGATGGGCACCAACAAGTGTGCCAGCCAGGTGGGCATGACAGCTCCAGGGACCC
GGAGGCACATCTATGACACCAAGCTGGGCACCGACAAGTGCACAACCTTCCATGTCCCTGCAGATGGG
CTACACGCAGGGCGCCAACCAGAGCGGTGAGGTCTTCGGACTGGGGCGGCAGATCTACGATCCCAAGTAT
TGCCACAGGGCTCTGCAGCTGATGGGGCTCCTGCGGGTGACGGCCAAGGCGAGGCCCCAGAGTACCTGG
CCTACTGCCAGGAGGAAGCCGGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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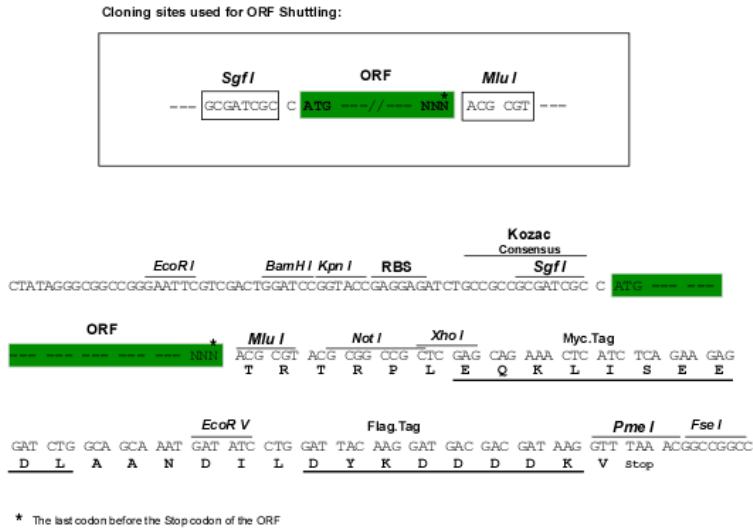
Protein Sequence: >MR203003 protein sequence
 Red=Cloning site Green=Tags(s)

MNKLQPGSVPKINRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKAKT
 KGLQSGVDIGVKYSEKQERNFDDATMKAGQCVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDH
 CTISLQMGTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSMSLQMGYTQGANQSQGVFGLGRQIYDPKY
 CPQGSAADGAPAGDGGQGEAPEYLAYCQEEAGY

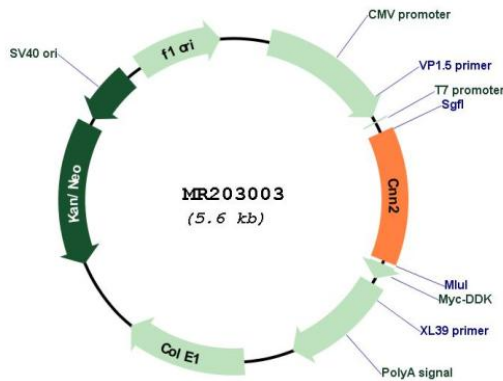
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC008181
ORF Size: 726 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:	<ol style="list-style-type: none">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:	BC008181 , AAH08181
RefSeq Size:	1724 bp
RefSeq ORF:	728 bp
Locus ID:	12798
Cytogenetics:	10 C1
MW:	26.3 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]