

## Product datasheet for **MG204286**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cnn2 (NM_007725) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnn2
Synonyms:	AA408047; AI324678; Calpo2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204286 representing NM_007725 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTCCACGCAGTTCAACAAGGGCCCGTCCTACGGGCTCTCGGCCGAGGTCAAGAACCGGCTCCTGT  
CCAAATATGACCCCCAAAAGGAAGCAGAAGCTCCGAAGCTGGATAGAGGGACTCACGGGCCTCTCCATTGG  
CCCTGACTTCCAGAAGGGTCTGAAAGATGGGGTTATCCTATGCACACTCATGAACAAGCTGCAGCCAGGC  
TCCGTCCTAAAATCAACCGCTCTATGCAGAAGTGGCACCAGCTAGAAAATCTCTCCAATTCATCAAGG  
CCATGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTGAGGCCAATGACCTGTTTCGAGAGCGGGAACAT  
GACACAGGTGCAAGTGTCTCTGCTTGCCTGGCTGGAAAGGCCAAGACCAAGGGGCTGCAGAGTGGTGTG  
GACATTGGAGTTAAGTATTCGGAGAAAACAGGAGAGGAACTTTGACGACGCCACCATGAAGGCCGGCCAGT  
GCGTCATCGGGCTGCAGATGGGCACCAACAAGTGTGCCAGCCAGTCTGGCATGACAGCCTATGGTACCAG  
GAGACATCTCTATGACCCCAAGAACCATATCCTGCCTCCCATGGACCACTGCACCATCAGCCTCCAGATG  
GGCACCAACAAGTGTGCCAGCCAGGTGGGCATGACAGCTCCAGGGACCCGGAGGCACATCTATGACACCA  
AGCTGGGCACCGACAAGTGGCACAACCTTCCATGTCCCTGCAGATGGGCTACACGCAGGGGCCAACCA  
GAGCGGTCAAGTCTTCGGACTGGGGCGGCAGATCTACGATCCCAAGTATTGCCACAGGGCTCTGCAGCT  
GACGGGCTCTGCGGGTGACGGCAAGGCGAGGCCCCAGAGTACCTGGCCTACTGCCAGGAGGAAGCTG  
GCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204286 representing NM\_007725  
 Red=Cloning site Green=Tags(s)

MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRSWIEGLTGLSIGPDFQKGLKDGVILCTLMNKLQPG  
 SVPKINRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKAKTKGLQSGV  
 DIGVKYSEKQERNFDDATMKAGQCIVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHCTISLQM  
 GTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSSMSLQMGYTTQGANQSGQVFGLRQIYDPKYCPQGSAA  
 DGAPAGDGQGEAPEYLAYCQEEAGY

TRTRPLE - GFP Tag - V

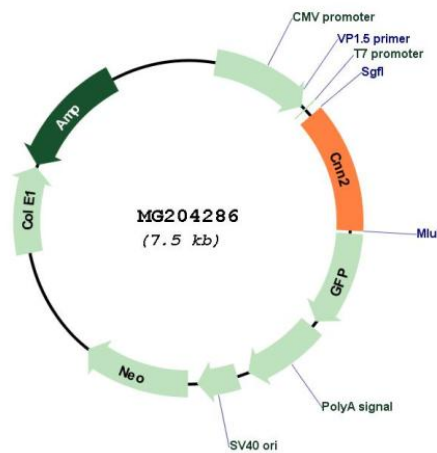
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_007725

**ORF Size:** 915 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007725.2</a> , <a href="#">NP_031751.1</a>
<b>RefSeq Size:</b>	1800 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	12798
<b>UniProt ID:</b>	<a href="#">Q08093</a>
<b>Cytogenetics:</b>	10 C1
<b>Gene Summary:</b>	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]