

## Product datasheet for **RG200488**

### Acidic Calponin (CNN3) (NM\_001839) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acidic Calponin (CNN3) (NM_001839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acidic Calponin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200488 representing NM_001839 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCACTTCAACAAGGGCCCTTCCTATGGGCTCTCGGCCGAAGTCAAGAACAAGATTGCTTCCAAGT  
ATGATCATCAGGCAGAAGAAGATCTTCGCAATTGGATAGAAGAGGTGACAGGCATGAGCATTGGCCCCAA  
CTTCCAGCTGGGCTTAAAGGATGGCATCATCCTCTGCGAACTTATAAACAAGCTACAGCCAGGCTCAGTG  
AAGAAGGTCAACGAGTCCTCACTGAAGTGGCCTCAGTTGGAGAATATTGGCAACTTTATTAAGCTATT  
AGGCTTATGGTATGAAGCCACATGACATATTCGAAGCAAATGATCTTTTTGAGAATGAAACATGACCCA  
GGTTCAGACTACTCTGGTGGCTCTAGCAGGTCTGGCTAAAACAAAAGGATTCCATACAACCATTGACATT  
GGAGTTAAGTATGCAGAAAAACAAACAAGACGTTTTGATGAAGGAAAATAAAAGCTGGCCAAAGTGTA  
TTGGTCTGCAGATGGGAACCAACAAATGTGCCAGCCAGGCAGGTATGACAGCTTACGGGACTAGGAGGCA  
TCTTTATGATCCCAAAATGCAAAGTACAAACCTTTTGACCAGACCACAATTAGTCTGCAGATGGGCACT  
AATAAAGGAGCCAGCCAGGCAGGATGTTAGCACCAGGTACCAGAAGAGACATCTATGATCAGAAGCTAA  
CATTACAGCCGGTGGACAACCGACAATTTCCCTACAGATGGGTACCAACAAAGTTGCTTCCAGAAAGG  
AATGAGTGTGATGGGCTTGGGCGCAAGTATATGATCCCAAATACTGTGCTGCTCTACAGAACCTGTC  
ATTCACAACGGAAGCCAAGGAACAGGAACAAATGGTTCGAAATCAGTGATAGTGATTATCAGGCAGAAT  
ACCTGATGAGTATCATGGCGAGTACCAGGATGACTACCCAGAGATTACCAATATAGCGACCAAGGCAT  
TGATTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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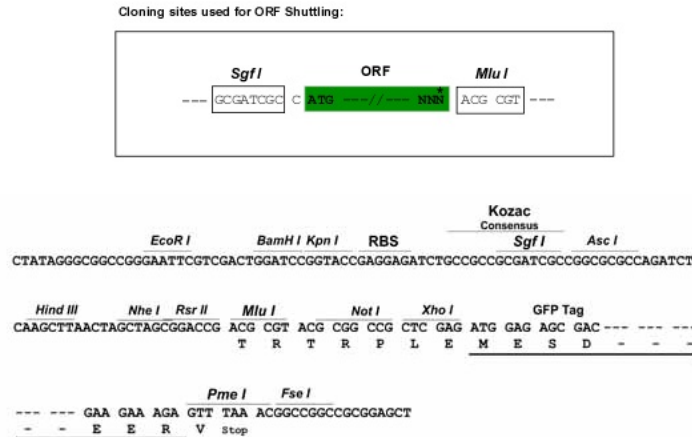
**Protein Sequence:** >RG200488 representing NM\_001839  
 Red=Cloning site Green=Tags(s)

MTHFNKGPSYGLSAEVKNKIASKYDHAQEDLRNWIEEVTGMSIGPNFQLGLKDGIIICELINKLQPGSV  
 KKVNESSLNWPQLENIGNFIKAIQAYGMKPHDIFEANLDFENGNTQVQTTLVALAGLAKTKGFHTTIDI  
 GVKYAEKQTRRFDEGKLGAGQSVIQLQMGTKKASQAGMTAYGTRRHL YDPKMQTDKPFQDQTTISLQMG  
 NKGASQAGMLAPGTRRDIYDQKLTLPVDNSTISLQMGTKNKNVAVSQQKMSVYGLGRQVYDPKYCAAPTEPV  
 IHNGSQGTGTNGSEISDSYQAEYPDEYHGEYQDDYPRDYQYSDQGIDY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001839

**ORF Size:** 987 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\\_001839.5](#)

**RefSeq Size:** 2045 bp

**RefSeq ORF:** 990 bp

**Locus ID:** 1266

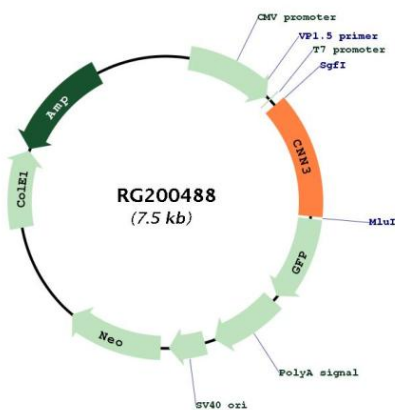
**UniProt ID:** [Q15417](#)

**Cytogenetics:** 1p21.3

**Domains:** calponin, CH

**Gene Summary:** This gene encodes a protein with a markedly acidic C terminus; the basic N-terminus is highly homologous to the N-terminus of a related gene, CNN1. Members of the CNN gene family all contain similar tandemly repeated motifs. This encoded protein is associated with the cytoskeleton but is not involved in contraction. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG200488