

## Product datasheet for **SC119290**

### Calponin (CNN1) (NM\_001299) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calponin (CNN1) (NM_001299) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calponin
Synonyms:	HEL-S-14; Sm-Calp; SMCC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001299, the custom clone sequence may differ by one or more nucleotides

```
ATGTCCTCTGCTCACTTCAACCGAGGCCCTGCCTACGGGCTGTCAGCCGAGGTTAAGAACAAGCTGGCCC  
AGAAGTATGACCACCAGCGGGAGCAGGAGCTGAGAGAGTGGATCGAGGGGTGACAGGCCGTCGCATCGG  
CAACAAC TTCATGGACGGCCTCAAAGATGGCATCATTCTTTGCGAATTCATCAATAAGCTGCAGCCAGGC  
TCCGTGAAGAAGATCAATGAGTCAACCCAAAATTGGCACCAGCTGGAGAACATCGGCAACTTCATCAAGG  
CCATCACCAAGTATGGGGTGAAGCCCCACGACATTTTTGAGGCCAACGACCTGTTTGAGAACACCAACCA  
TACACAGGTGCAGTCCACCCTCTGGCTTTGGCCAGCATGGCGAAGACGAAAGGAAACAAGGTGAACGTG  
GGAGTGAAGTACGCAGAGAAGCAGGAGCGGAAATTCGAGCCGGGAAGCTAAGAGAAGGGCGGAACATCA  
TTGGGCTGCAGATGGGCACCAACAAGTTTGCCAGCCAGCAGGGCATGACGGCCTATGGCACCCGGCGCCA  
CCTCTACGACCCCAAGCTGGGCACAGACCAGCCTCTGGACCAGGCGACCATCAGCCTGCAGATGGGCACC  
AACAAAGGAGCCAGCCAGGCTGGCATGACTGCGCCAGGGACCAAGCGGCAGATCTTCGAGCCGGGCTGG  
GCATGGAGCACTGCGACACGCTCAATGTGAGCCTGCAGATGGGCAGCAACAAGGGCGCCTCGCAGCGGGG  
CATGACGGTGTATGGGCTGCCACGCCAGGTCTACGACCCCAAGTACTGTCTGACTCCCGAGTACCCAGAG  
CTGGGTGAGCCCCCACAACCACCACGCACACAACACTACTACAATTCCGCCTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001299 unedited  
 NCCTTTTCANAATTTTGTAAATACGACTCACTATAGGGCGGCCGCGAAATCGGCACCAGGC  
 ACAAGCCTTACTTTGGTTACCGTGGAAACCACTGCCACCCTCCCGATGTGGTGCAGCTC  
 AATAAAAATGCTGGAATCAAAAAAAAAAAAAAAAAAAAAAAAAAATCGAGGGAGCAGGAG  
 CTGAGAGAGTGGATCGAGGGGTGACAGGCCGTCGCATCGGCAACAACCTCATGGACGGC  
 CTCAAAAGATGGCATCATTCTTTGCGAATTCATCAATAAGCTGCAGCCAGGCTCCGTGAAG  
 AAGATCAATGAGTCAACCCAAAATTGGCACCAGCTGGAGAACATCGGCAACTTCATCAAG  
 GCCATACCAAGTATGGGGTGAAGCCCCACGACATTTTTGAGGCCAACGACCTGTTTGAG  
 AACACCAACCATACACAGGTGCAGTCCACCCTCCTGGCTTTGGCCAGCATGGCGAAGACG  
 AAAGGAAACAAGGTGAACGTGGGAGTGAAGTACGCAGAGAAGCAGGAGCGGAAATTCGAG  
 CCGGGGAAGCTAAGAGAAGGGCGGAACATCATTGGGCTGCAGATGGGCACCAACAAGTTT  
 GCCAGCCAGCAGGGCATGACGGCCTATGGCACCCGGCGCCACCTCTACGACCCCAAGCTG  
 GGCACAGACCAGCCTCTGGACCAGGCGACCATCAGCCTGCAGATGGGCACCAACAAGGA  
 GCCAGCCNAGCTGGCATGACTGCGCCAGGACCAAGCGGCAGATCTTCAAGCCGGGGCTG  
 GGCATGGAGCACTGCGACACGCTCAATGTCAGCCTGCAGATGGGCAGCAACAAGGGCGCC  
 TCGCAACGGGCATGAACGTGTATGGGCTGCCCGCCAGTCTACGACCCCAATACTGTCTGA  
 CTCCCAGACCCAAAGCTGGGTGAGCCCGCCACACCACAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001299 unedited  
 ACCGCGAAACGNNTTATGATCGAGTTTAAATTCTTTTTTTTTGAGATTTTACAGCCATTT  
 ATTGTGGCTCCAGTGAAATAGTAAAAAAAAAGAAAGTGTCTCATTACAAACGCCACTGT  
 CACATCCACATAGTATGCCAGTCGCTGCAAACCAACCGGTGTGTCCGCTGGGTCTCTG  
 GGCATGCAGTTTGTCTCCACTGCGGGAATGGGTGGGGCAGGCCGAGCCTGGGCTCTGGG  
 GGCTTTGTCTGGGGAGCTTCTGGTCTGGGGTACCCACTTGTGAGGGAGTGGGGGACA  
 GCTGGAATAGCGTTGCTCAGTGCCTCTTTGGGCGCTGTTGGGGACACCCGGCTCTATGT  
 TGGACCCTGTTGCACTACAGAGCGGAGGGTCCCCTTCCCCCAATGGGCCCCCGCCCT  
 CTGCTCTCTCCAACTCTAACCTGTCCAGGTGACCTCCTTTTGGGCTGGCCGATCCCT  
 CCCCAGCCAGGGTCCGCTGGGCTCCCTGTCCCCCCCCCTTGTCCCTTTCTCCCTTG  
 TGTCCCCCCCCCTCCCCCCCCCTTCCCCCGCTCCCGCCGTTGCCCGCTCCGTTTTT  
 TTTCCCGTTGTTGCCCTTCTTCTTTCCCTCCCCCCCCCCCCCCCCCTTTTTTTGT  
 TCCCGTTCTCTTTCCCCCTCCGCGCCCTGTTTTCTTGTCCGCTCCGCCCCCCCC  
 CCATTTCCCGCGTTCCTTCTTCCGTTTTTCCCCCTCTTCCCCCCCCCTCTTTTTGGTTT  
 TCTTTTCCCTCGATTTTCTGCTCTCCCCCCCCCCCCCTTTTCTCCCCCCCCCTTT  
 TCCGTTGCCCCCTCCCTTCTTCCCCCGCGCCCGCGCTCTCGTCTTGTCTGCTTTTCT  
 CTTCCCCCCCCCGCCGCTTTTCCCCGCTTTGTTTTCTTTTCCGCCAATAAAAA  
 AATAAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001299

**Insert Size:**

1440 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001299.4](#), [NP\\_001290.2](#)

**RefSeq Size:** 1599 bp

**RefSeq ORF:** 894 bp

**Locus ID:** 1264

**UniProt ID:** [P51911](#)

**Cytogenetics:** 19p13.2

**Domains:** calponin, CH

**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]  
Transcript Variant: This variant (1) represents the longer isoform (1).