

Product datasheet for SC111610

CNN2 (NM_004368) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNN2 (NM_004368) Human Untagged Clone
Tag:	Tag Free
Symbol:	CNN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111610 sequence for NM_004368 edited (data generated by NextGen Sequencing)

```
ATGAGCTCCACGCAGTTCAACAAGGGCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAAC
CGGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGA
CTCACC GGCTCTCCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAATCTTTA
TGCACACTCATGAACAAGCTACAGCCGGGCTCCGTCCCCAAGATCAACCGCTCCATGCAG
AACTGGCACCAGCTAGAAAACCTGTCCAATTCATCAAGGCCATGGTCAGCTACGGCATG
AACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAACATGACGCAGGTG
CAGGTGTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTG
GACATTGGCGTCAAGTACTCGGAGAAGCAGGAGCGGAATTTTCAGCATGCCACCATGAAG
GCTGGCCAGTGCATCGGGCTGCAGATGGGCACCAACAAATGCGCCAGCCAGTCGGGC
ATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGAACCATATCCTGCCCC
ATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGCGCCAGCCAGGTGGGC
ATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGT
GACAACTCCTCCATGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAG
GTCTTCGGCCTGGGCCGGCAGATATATGACCCCAAGTACTGCCCGCAAGGCACAGTGGCC
GATGGGGTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGGAGGTCCCTGAATATCCC
CCTTACTACCAGGAGGAGCCGGCTACTGA
```

Clone variation with respect to NM_004368.2
645 t=>c



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004368 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGC GGCCCCGTC
 CCGCCCCCGCCAGCCATGAGCTCCACGCAGTTCAACAAGGGCCCTCGTACGGGCTGT
 CGGCCGAGGTCAAGAACCGGCTCCTGTCCAATATGACCCCCAGAAGGAGGCAGAGCTCC
 GCACCTGGATCGAGGGACTACCGGCCTCTCCATCGGCCCCGACTTCCAGAAGGGCTGA
 AGGATGGAAGTATCTTATGCACACTCATGAACAAGCTACAGCCGGGCTCCGTCCCCAAGA
 TCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTCATCAAGGCCA
 TGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTG
 GGAACATGACGCAGGTGCAGGTGTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGG
 GGCTGCAGAGCGGGTGGACATTGGCGTCAAGTACTCGGAGAAGCAGGAGCGGAATTTG
 ACGATGCCACCATGAAGGCTGGCCAGTGCATCGGGCTGCAGATGGGCACCAACAAAT
 GCGCCAGCCAGTCGGGCATGACTGCCTACNGCAGGAGAAGGCATCTCTATGACCCCAAGA
 ACCATATCTGCCCCCATGGACACTCGACCATCAGCCTCCAGATGGGCACGAACAAGT
 GCGCCAGCCANGTGGGCATGACGGCTCCCGGACCCGCGGCACATCTATGATACCAAGCT
 GGAACCCNNGACAGTGTGACAACCTTTCATGTCCCTGCAGATGGGCTACACGCAGGGNCG
 CCAACCAGAGCGGCCAGTCTTTTCGCTGGGCCGGAAGATTATGACCCAGTACTGGCC
 GCAGGCCAGTGGCCGATGGGGCTCCCTTCGGCACCGGGACTGCCCGGACGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004368 unedited
 CGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCTTCGCCAACAGAGTTTTTA
 TTGCGTTTGGTCCACAGTCGATTTTACATTATCTCACGGAGCAGGGCCCTGGGTGGGG
 GGTCCCTGTGCAGTACTTGGCGGGGCATGTGGCCGGGAAGATGGAGCAGTATAAGCTGG
 TCGGGCCAGAAAGGAGGAGGGCTGGGGACTCCTTAAACCTACTGAGGGCTGGGCACG
 GTGGCTCACACCTGTAATCTCAGCGCTTGGGGAGGCGGAGGCGGGCGGATCACACCTGAG
 GCCAGGAGTTCGAGACCAGCCTGGCCAACATGGGGAAACCCATCTTTACTAAAAATACA
 AAAATTAGCCGGGCGTGGTGGAGCACCTGCAGTCTAGTACTCAGGAGGCTGAGGCTGG
 AGAATCGTTGAGCCCGAAGGTGGAGTGCAGTGCAGCAAGATGGCGCCACTGCACTCC
 AGCCTGGCAACAACCACAACCTGAAAAAAAAATCTACTGAGGCCAGAGTGAAGTGGGGCG
 GGGAGCATGGAGAGGGGGTCAAGCTTATCCCAACAACCTCAGAATTTCACTTTCTGTAC
 GGACCTCACTTTCTCCACCTGGCCCCGGGGCCAGGTCTGAAGTCTGAAGTCTGTTGACC
 CGAAAGTCTAGGCAATCCACCCCTCGGGAGCCGGAATATTTAACATACGGCCCGTCC
 CCTTTCCAGGGACTCATTCTAACTCTCTCACTGCCTTGCCACCTGGGGAAAAAAGA
 TTTTTCTTTGAAAACCTTGAACCTGCGGGCTAAAACCAACTGCCAGCTGACAAAGGG
 GAAAAGCGAGGAACATAAACCGCGGGCCCGTNTCCACCACATCTTTTTCCACCAACCG
 AAGTGCACAAGACCTCCCTAACTTGGGATAGCCTACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_004368

Insert Size:

2150 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_004368.2](#), [NP_004359.1](#)

RefSeq Size: 2478 bp

RefSeq ORF: 930 bp

Locus ID: 1265

UniProt ID: [Q99439](#)

Cytogenetics: 19p13.3

Domains: calponin, CH

Gene Summary: The protein encoded by this gene, which can bind actin, calmodulin, troponin C, and tropomyosin, may function in the structural organization of actin filaments. The encoded protein could play a role in smooth muscle contraction and cell adhesion. Several pseudogenes of this gene have been identified, and are present on chromosomes 1, 2, 3, 6, 9, 11, 13, 15, 16, 21 and 22. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]
Transcript Variant: This variant (1) uses an alternate in-frame splice site in the central coding region, compared to variant 4. The encoded isoform (a) is shorter than isoform d.