

CNN1 cDNA

Catalog Number: ATGD0056

PRODUCT INFORMATION

Catalog number

ATGD0056

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001290.2

Alternative Names

Calponin 1, CNN1, HEL-S-14, Sm-Calp, SMCC

mRNA Refseq

NM_001299.4

OMIM

600806

Chromosome location

19p13.2-p13.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

894bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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CNN1, also known as calponin-1, belongs to the calponin family. CNN1 is 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.

DATA**Sequence nucleotides**

```
ATGTCCTCTG CTCACTTCAA CCGAGGCCCT GCCTACGGGC TGTCAGCCGA GGTTAAGAAC AAGCTGGCCC  
AGAAGTATGA CCACCAGCGG GAGCAGGAGC TGAGAGAGTG GATCGAGGGG GTGACAGGCC GTCGCATCGG  
CAACAAC TTC ATGGACGGCC TCAAAGATGG CATCATTCTT TGCGAATTCA TCAATAAGCT GCAGCCAGGC  
TCCGTGAAGA AGATCAATGA GTCAACCCAA AATTGGCACC AGCTGGAGAA CATCGGCAAC TTCATCAAGG  
CCATCACCAA GTATGGGGTG AAGCCCCACG ACATTTTTGA GGCCAACGAC CTGTTTGAGA ACACCAACCA  
TACACAGGTG CAGTCCACCC TCCTGGCTTT GGCCAGCATG GCGAAGACGA AAGGAAACAA GGTGAACGTG  
GGAGTGAAGT ACGCAGAGAA GCAGGAGCGG AAATTCGAGC CGGGGAAGCT AAGAGAAGGG CGGAACATCA  
TTGGGCTGCA GATGGGCACC AACAAGTTTG CCAGCCAGCA GGGCATGACG GCCTATGGCA CCCGGCGCCA  
CCTCTACGAC CCAAGCTGG GCACAGACCA GCCTCTGGAC CAGGCGACCA TCAGCCTGCA GATGGGCACC  
AACAAAGGAG CCAGCCAGGC TGGCATGACT GCGCCAGGGA CCAAGCGGCA GATCTTCGAG CCGGGGCTGG  
GCATGGAGCA CTGCGACACG CTCAATGTCA GCCTGCAGAT GGGCAGCAAC AAGGGCGCCT CGCAGCGGGG  
CATGACGGTG TATGGGCTGC CACGCCAGGT CTACGACCCC AAGTACTGTC TGA TCTCCCGA GTACCCAGAG  
CTGGGTGAGC CCGCCACAA CCACCACGCA CACA ACTACT ACAATTCCGC CTAG
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Transaction Sequence

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MSSAHFNRGP AYGLSAEVKN KLAQKYDHQR EQELREWIEG VTGRRIGNNF MDGLKDG IIL CEFINKLQPG SVKKINESTQ  
NWHQLENIGN FIKAITKYGV KPHDIFEAND LFENTNHTQV QSTLLALASM AKTKGNKVVNV GVKYAEKQER KFEPGKLREG  
RNIIGLQMGT NK FASQQGMT AYGTRRHLYD PKLGTDQPLD QATISLQMGT NKGASQAGMT APGTRQIFE PGLGMEHCDT  
LNVSLQMGSN KGASQRGMTV YGLPRQVYDP KYCLTPEYPE LGEPAHNHHA HNYNSA
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