

Product datasheet for **RG221104**

CNN2 (NM_004368) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CNN2 (NM_004368) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CNN2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221104 representing NM_004368
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCACGCAGTTCAACAAGGGCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGCTCCTGT
CCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGCCTCTCCATCGG
CCCCGACTTCCAGAAGGGCCTGAAGGATGGAACATCTTATGCACACTCATGAACAAGCTACAGCCGGGC
TCCGTCCCCAAGATCAACCGCTCCATGCAGAAGTGGCACCAGCTAGAAAACCTGTCCAACCTCATCAAGG
CCATGGTCAGCTACGGCATGAACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGAACAT
GACGCAGGTGCAGGTGTCTTCTCGCCCTGGCGGGAAGGCCAAGACTAAGGGGCTGCAGAGCGGGGTG
GACATTGGCGTCAAGTACTCGGAGAAGCAGGAGCGGAATTTTCGACGATGCCACCATGAAGCTGGCCAGT
GCGTCATCGGGCTGCAGATGGGCACCAACAAATGCGCCAGCCAGTCCGGCATGACTGCCTACGGCAGGAG
AAGGCATCTATGACCCCAAGAACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATG
GGCAGCAACAAGTGTGCCAGCCAGGTGGGCATGACGGCTCCCGGGACCGGCGGCACATCTATGATACCA
AGCTGGGAACCGACAAGTGTGACAACCTCTCCATGTCCCTGCAGATGGGTACACGCAGGGCGCCAACCA
GAGCGGCCAGGTCTTCGGCTGGGCCGGCAGATATGACCCCAAGTACTGCCCGCAAGGCACAGTGGCC
GATGGGGTCCCTCGGGCACCGGCGACTGCCCGGACCCGGGGAGGTCCCTGAATATCCCCCTTACTACC
AGGAGGAGGCCGGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG221104 representing NM_004368
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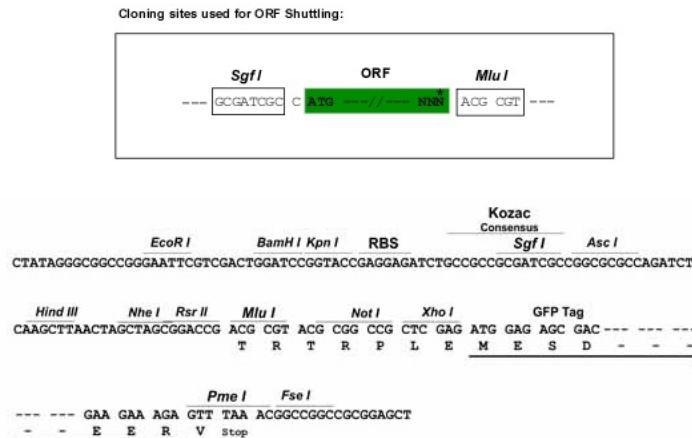
MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGITLCTLMNKLQPG
 SVPKINRSMQNHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLLAGKAKTKGLQSGV
 DIGVKYSEKQERNFDDATMKAGQCVIGLQMGTKNCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQM
 GTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSSMSLQMGYTGANQSGQVFGGLGRQIYDPKYCPQGTVA
 DGAPSGTGDCPDGPEVPEYPPYYQEAGY

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2193_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004368

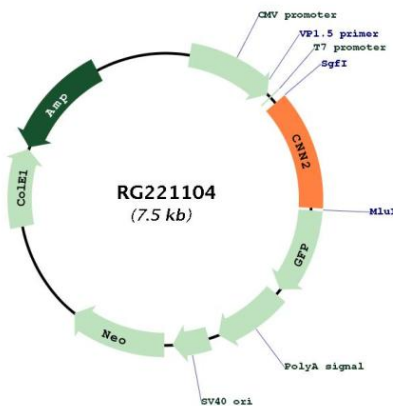
ORF Size: 927 bp

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](#)

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:	<ol style="list-style-type: none"> 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_004368.4
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]

Product images:



Circular map for RG221104