

Product datasheet for **RG212208**

CNN2 (NM_201277) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CNN2 (NM_201277) 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: | >RG212208 representing NM_201277 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCACGCAGTTCAACAAGGGCCCTCGTACGGGCTGTCGGCCGAGGTCAAGAACCGGCTCCTGT
CCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTCACCGCCTCTCCATCGG
CCCCGACTTCCAGAAGGGCCTGAAGGATGGAACATCTTATGCACACTCATGAACAAGCTACAGCCGGGC
TCCGTCCCCAAGATCAACCGCTCCATGCAGAAGTGGCACCAGCTAGAAAACCTGTCCAACCTCATCAAGG
CCATGGTCAGCTACGGCATGAACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGAACAT
GACGCAGGTGCAGGTGTCTTCTCGCCCTGGCGGGAAGATGGGCACCAACAAATGCGCCAGCCAGTCTG
GGCATGACTGCCTACGGCACGAGAAGGCATCTCTATGACCCCAAGAACCATATCCTGCCCCCATGGACC
ACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGTGCCAGCCAGGTGGGCATGACGGCTCCCGGGAC
CCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGACAACCTCCTCCATGTCCCTGCAGATG
GGCTACACGCAGGGCGCCAACAGAGCGGCCAGGTCTTCGGCCTGGGCCGGCAGATATATGACCCCAAGT
ACTGCCCGCAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGCGACTGCCCGGACCCGGGGAGGT
CCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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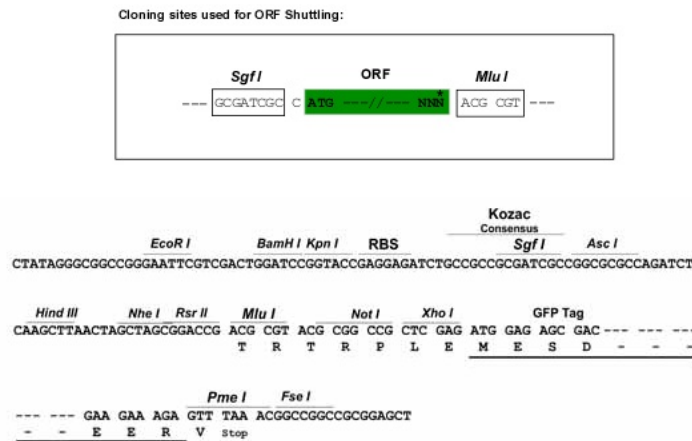
Protein Sequence: >RG212208 representing NM_201277
 Red=Cloning site Green=Tags(s)

MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGITLCTLMNKLQPG
 SVPKINRSMQNWHLLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLALAGKMGTKCASQS
 GMTAYGTRRHL YDPKNHILPPMDHSTISLQMGTKNCASQVGMTAPGTRRHIYDTKLGTDKCDNSSMSLQM
 GYTQGANQSGQVFLGRQIYDPKYCPQGTVADGAPSGTGDCPDGPEVPEYPPYYQEEAGY

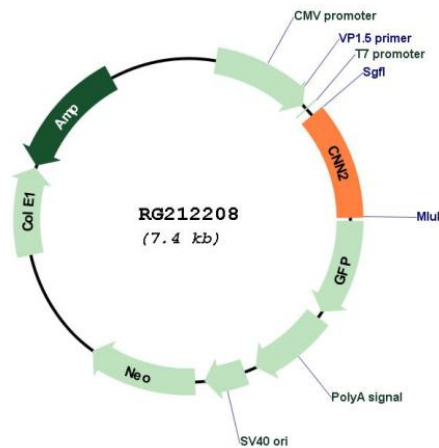
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_201277

ORF Size: 810 bp

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|-------------------------------|---|
| 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: | <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_201277.3 |
| RefSeq Size: | 2361 bp |
| RefSeq ORF: | 813 bp |
| Locus ID: | 1265 |
| UniProt ID: | Q99439 |
| Cytogenetics: | 19p13.3 |
| 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] |