

Product datasheet for **RC202956**

CNNM2 (NM_199077) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNNM2 (NM_199077) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNNM2
Synonyms:	ACDP2; HOMG6; HOMGSMR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202956 representing NM_199077
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGGCTGTGGCGCTTGTGAACCCAAAGTAAAGATGGCGGGCGGCAGGCAGCCGCCACTGCCCA
 CTTGGAAGATGGCGGCGGCCAGCCTCAGCGCTCGCGGCCGGGGATCCTGCAGGCGGCTGCGGGCG
 GCTGCTGCCGCTGCTCCTGCTGAGCTGCTGCTGCGGTGCGGGCGGCTGCGCAGCGGTGGCGGAGAATGAG
 GAGACGGTGATCATCGGGCTGCGACTGGAGGACACGAACGACGTGTGTTTCATGGAAGGGGGGCGCTGC
 GGGTGAGCGAACGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAATAACGAGACGTGGTCCCG
 CATCGCCTTACCAGACGAGCGGGCGGCCACAGCCCGGGGAGCGCGGGCTGGGGGGCCCCGCGCCG
 CCAGAGCCGACAGCGGCCCCAGCGATCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTAACCGCCGACCTCGGGCATCATCGAGATCGAGATCAAACCGCTACGCAAGATGGAGAAGAGCAA
 GTCCTATTACCTGTGACGTGCTCTCCACGCCGCCCTGGGCGCCGGCGGCTCGGGGTCCACGGGTGGC
 GCCGTCGGGGGCAAGGGTGGCTCGGGGTGGCCGGCTCCCGCCGCCCGTGGGCCGAGACCACCTGGA
 TTTACCACGACGGCGAGGACACCAAGATGATCGTAGGCGAAGAGAAGAAGTTCCTGCTGCCCTTCTGGCT
 GCAGGTGATCTTCATTTGCTGCTGCTGTGCCTGTGCGGCATGTTGAGCGGCCTCAACCTGGGGCTCATG
 GCCCTGGACCCGATGGAGCTGCGCATCGTGCAAACTGCGGCACGGAGAAGGAGAAGAATTACGCCAAGC
 GCATCGAGCCGGTGGCAGGCAGGGCAACTACCTGCTGTGCTCACTGCTGCTGGGCAACGTGCTGGTCAA
 CACCACGCTCACCATCCTGCTCGACGACATCGCCGGCTCGGGCCTCGTGGCCGTGGTAGTCTCCACCATC
 GGTATCGTCATCTTCGGAGAGATCGTGCCCGAGCCATCTGCTCCCGGCATGGCTGGCTGTGGGGGCA
 ACACCATCTTCCACCAAGTTTTTCATGATGATGACCTTCCCGCTTCCACCCGGTACGCAAGCTGCTGCT
 GGACTGCGTCTGGGCCAGGAGATAGGCACCGTCTATAACCGGGAAGAACTGCTGGAGATGCTCCGGGTC
 ACCGATCCCTACACGACCTCGTTAAGGAGGAGCTGAACATCATCCAAGGGCGCTGGAGCTCCGACCA
 AGACGGTGGAGGACGTGATGACCCACTCGGGACTGCTTCATGATCACCGGCGAAGCCATCCTGGACTT
 CAACACCATGTCTGAGATCATGGAGAGCGGCTACACCCGATTCCAGTGTGTTGAGGGGAGCGCTCCAAT
 ATCGTGGACCTGCTGTTGTCAAAGACTTGGCCTTCGTGGATCCCGATGACTGTACCCCCCTGAAAACCA
 TCACCAAAATTTATAACCAACCCCTTGCACTTTGTTTTCAATGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGAACACACAAACAAGAAACCCAAATCATACCAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202956 representing NM_199077
 Red=Cloning site Green=Tags(s)

MIGCGACEPKVKMAGQAAAALPTWKMAARRSLSARGRILQAAAGRLLPLLLLSCCGAGGCAAVGENE
 ETVIIGLRLEDTNDVSFMEGGALRVSERTRVKLRVYQINNETWSRIAFTEHERRRHSPGERLGGPAP
 PEPDSGPQRGIRTSDIILPHIILNRRTSGIIEIEIKPLRMEKSKSYLLCTSLSTPALGAGGSGSTGG
 AVGGKGGSGVAGLPPPPWAETTWIYHDGEDTKMIVGEEKFLLPFWLQVIFISLLLCLSGMFSGLNLGLM
 ALDPMELRIVQNCGETEKEKNYAKRIEPPRRQGNLCSLLLGNLVTTLTILLDDIAGSGLVAVVVSTI
 GIVIFGEIVPQAICSRHGLAVGANTIFLTKFFMMTFPASYPVSKLLDCVLGQEIGTVYNREKLEMLRV
 TDPYNDLVKEELNIIQGALELRKTVEDVMTPLRDCFMITGEAILDFNTMSEIMESGYTRIPVFEGERSN
 IVDLLFVKDLAFVDPDDCTPLKTIKTFYNHPLHFVFNDFKLDAMLEEFKKEHTNKKPKSYQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_199077

ORF Size: 1656 bp

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:**
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_199077.2](#), [NP_951059.1](#)

RefSeq Size: 2076 bp

RefSeq ORF: 1659 bp

Locus ID: 54805

UniProt ID: [Q9H8M5](#)

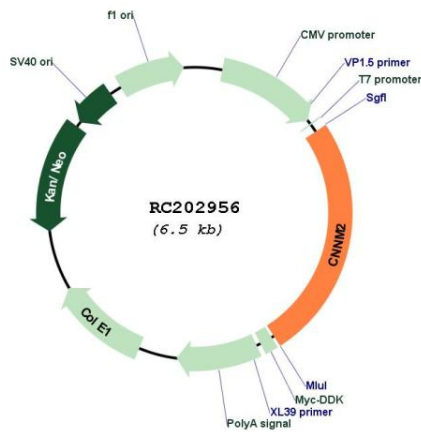
Cytogenetics: 10q24.32

Protein Families: Transmembrane

MW: 60.5 kDa

Gene Summary: This gene encodes a member of the ancient conserved domain containing protein family. Members of this protein family contain a cyclin box motif and have structural similarity to the cyclins. The encoded protein may play an important role in magnesium homeostasis by mediating the epithelial transport and renal reabsorption of Mg²⁺. Mutations in this gene are associated with renal hypomagnesemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC202956