

Product datasheet for **SC123403**

CNNM2 (NM_199077) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNNM2 (NM_199077) Human Untagged Clone
Tag:	Tag Free
Symbol:	CNNM2
Synonyms:	ACDP2; HOMG6; HOMGSMR
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene sequence for NM_199077 edited
CCTCGGGTTCCTCAGCTGGCTGAGGTGGAGTCACTGTCAGTCAGGGAGGCGAACTGCTG
AGCACTGGCCGCGGACGCTCCGTTGCACTCTCGCCAGGGGCGGTACCTGCGCTCGCGC
CGCCGGTTGAAAGGATGAAGCCGACGCTGGAGCAGCCACCCTATGATTGGCTGTGGCGC
TTGTGAACCCAAAGTAAAGATGGCGGGCGGGCAGGCAGCCGCCACTGCCACTTGAA
GATGGCGGCGCGCCGACGCTCAGCGCTCGCGGGCGGGGATCCTGCAGGCGGCTGCGGG
GCGGCTGCTGCCGCTCCTCTGCTGAGCTGCTGCTGCGGTGCGGGCGGCTGCGCAGCGGT
GGGCGAGAATGAGGAGACGGTGATCATCGGGCTGCGACTGGAGGACACGAACGACGTGTC
GTTTCATGGAAGGGGGGCGCTGCGGGTGAAGCAACGACCCGGTCAAGTGCAGGTGTA
CGGGCAGAACATCAATAACGAGACGTGGTCCCGCATCGCCTTACCGAGCACGAGCGCG
GCGCCACAGCCCGGGGAGCGGGGCTGGGGGCCCCGCGCCAGAGCCGGACAGCGG
CCCCCAGCGATGCGGCATCCGCACCTCAGACATCATCTTGCCCCACATCATTCTCAA
CCGCCGACCTCGGGCATCATCGAGATCGAGATCAAACCGCTACGCAAGATGGAGAAGAG
CAAGTCTATTACCTGTGCACGTGCTCTCCACGCCGCCCTGGGCGCCGGCGGCTCGGG
GTTCCACGGGTGGCGCGTGGGGGCAAGGTGGCTCGGGGTGGCCGGGCTCCCGCGCC
CCCGTGGGCCGAGACCACCTGGATTTACCACGACGGCGAGGACACCAAGATGATCGTAGG
CGAAGAGAAGAAGTTCCTGCTGCCCTTCTGGCTGCAGGTGATCTTCATTTGCTGCTGCT
GTGCTGTGCGGCATGTTGAGCGGCTCAACCTGGGGCTCATGGCCCTGGACCCGATGGA
GCTGCGCATCGTGCAACTGCGGCACGGAGAAGGAGAAGAAATTACGCCAAGCGCATCGA
GCCGGTGCAGCAGGCAAGCAACTACCTGCTGTGCTCACTGCTGCTGGGCAACGTGCTGGT
CAACACCACGCTACCATCCTGCTCGACGACATCGCCGGCTCGGGCTCGTGGCCGTTGGT
AGTCTCCACCATCGGTATCGTCATCTTCGGAGAGATCGTGCCCCAGGCCATCTGCTCCCG
GCATGGCCTGGCTGTGGGGCCAACACCATCTTCCTACCAAGTTTTTTCATGATGATGAC
CTTCCCGCTTCTTACCAGGTGAGCAAGCTGCTGGACTGCGTCTGGGCCAGGAGATAGG
CACCGTCTATAACCGGAAAAACTGCTGGAGATGCTCCGGGTACCGATCCCTACACGA
CCTCGTTAAGGAGGAGCTGAACATCATCAAGGGGCGCTGGAGTCCGCACCAAGACGGT
GGAGGACGTGATGACCCACTCCGGGACTGTTTCATGATCACCAGGCAAGCCATCCTGGA
CTTCAACACCATGTCTGAGATCATGGAGAGCGGCTACACCCGATTCCAGTGTGTTGAAGG
GGAGCGCTCCAATATCGTGGACCTGCTGTTGTCAAAGACTTGGCCTTCGTGGATCCCGA
TGACTGTACCCCTGAAAACCATACCAAATTTTATAACCACCCCTTGCACTTTGTTTT
CAATGACACCAAGTTGGACGCTATGCTGGAAGAATTTAAGAAAGAACACAAACAAGAA
ACCCAAATCATACCAACTGAAAAGAAGAGACAATAAGAAGCATTCTTTCTTCAACAT
CACAGACATTGGCAACTTAGGATGTCTATACAGAGGGATAAAAAGGGTGGCAGTTGGC
TGGGCGTGGTGGCTATGCCTGTAATCCCGGCACTTTGGGAGGCCAGGGAGGTGGATCA
CTTGAGGTGAGGATCCAGACTGACAGTCTGGCCACCATGGTGAACCCCGTTTCTAAT
AAAAATACAGAAAAATTAATAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_199077 unedited GNNCGGCCGCGCAATTCGGCACGAGGCCTCGGGGTTCTCAGCTGGCTGAGGTGGAGTCA GTGTCACTCAGGGAGGCGAACTGCTGAGCACTGGCCGCGGACGCTCCGTTGCACTCTCGC CCAGGGCCGGTACCTGCGCTCGCGCCGCGGGTTGAAAGGATGAAGCCGACGCTGGAGCA GCCACCCTATGATTGGCTGTGGCGCTTGTGAACCCAAAGTAAAGATGGCGGGCGGGCAGG CAGCCCGCGCACTGCCCACTTGAAGATGGCGGCGCGCCGACGCTCAGCGCTCGCGGCC GGGGGATCCTGCAGGCGGCTGCGGGGCGGCTGCTGCCGCTGCTCCTGCTGAGCTGCTGCT GCGGTGCGGGCGGCTGCGCAGCGGTGGGCGAGAATGAGGAGACGGTGATCATCGGGCTGC GACTGGAGGACACGAACGACGTGCTGTTTATGGAAGGGGGGGCGTGCGGGTGAGCGAAC GGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAATAACGAGACGTGGTCCCGCA TCGCCCTTACCGAGCACGAGCGGCGGCCACAGNCCCGGGGAGCGCGGGCTGGGGGGCC CCGCGCCGCCAGACCGGACAGCGGCCCCAGCGATGCGGCATCCGCACCTCAGACATCA TCATCTTGCCCCACATATTCTCAACCGCCGACCTCGGGCATCATCGAGATCGAGATCA AACCGCTACGCAAGATGGAGAAGAAGCAGTCTATTACCTGTGCAGTTGCTCTTACCGC CCGGCCCTGGGCGCCGGCGGCTCGGGGGTACGGGTGGCGCCGTCGGGGGAGGTTNTGCT CGG
Restriction Sites:	Please inquire
ACCN:	NM_199077
Insert Size:	2085 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_199077.1 , NP_951059.1
RefSeq Size:	2037 bp
RefSeq ORF:	1659 bp
Locus ID:	54805
UniProt ID:	Q9H8M5
Cytogenetics:	10q24.32
Protein Families:	Transmembrane

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]

Transcript Variant: This variant (3) uses an alternate terminal exon and lacks a large portion of the 3' coding region, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.