

Product datasheet for **SC114029**

CNNM2 (NM_017649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNNM2 (NM_017649) Human Untagged Clone
Tag:	Tag Free
Symbol:	CNNM2
Synonyms:	ACDP2; HOMG6; HOMGSMR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_017649, the custom clone sequence may differ by one or more nucleotides

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ATGATTGGCTGTGGCGCTTGTGAACCCAAAGTAAAGATGGCGGGCGGGCAGGCAGCCGCCGCACTGCCCA
CTTGAAGATGGCGGCGCGCCGAGCCTCAGCGCTCGCGGCCGGGGATCCTGCAGGCGGCTGCGGGGCG
GCTGCTGCCGCTGCTCCTGCTGAGCTGCTGCTGCGGTGCGGGCGGCTGCGCAGCGGTGGGCGAGAATGAG
GAGACGGTGATCATCGGGCTGCGACTGGAGGACACGAACGACGTGTCGTTTCATGGAAGGGGGGCGCTGC
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CATCGCCTTACCAGACGAGCGGGCGGCCACAGCCCGGGGAGCGGGGCTGGGGGCCCCGCGCCG
CCAGAGCCGGACAGCGGCCCCAGCGATGCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
TTCTCAACCGCCGACCTCGGGCATCATCGAGATCGAGATCAAACCGCTACGCAAGATGGAGAAGAGCAA
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GCAGGTGATCTTCAATTCGCTGCTGCTGTGCTGTCGGGCATGTTTCAGCGGCCTCAACCTGGGGCTCATG
GCCCTGGACCCGATGGAGCTGCGCATCGTGCAACTGCGGCACGGAGAAGGAGAAGAATTACGCCAAGC
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ACTCGGTGCGAGCCCTTTCGGATCTGCAGTTTGTAAAGATCTCAAGACAGCAATACCAAAATGCTTGAT
GGCATCCCGGATGGACAAAACCCCAAGTCTTCAGACAGTGAACCACTAAAATCGAATTGACTCTTACG
GAGCTGCATGACGGTTGCCAGACGAGACGCCAACCTGCTCAACGAACGAAGTGTGTGACGCACAGTA
AGGCCAACACAGCCTGCACAACGAAGCGCCATCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017649 unedited
 NGGTCGGAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCAGAGGGTTTTTCA
 TGATGATGACCTTCCCGCTTCTACCCGGTCAGCAAGCTGCTGGACTGCGTCCTGGGCC
 AGGAGATAGGCACCGTCTATAACCGGAAAACTGCTGGAGATGCTCCGGGTACCCGATC
 CCTACAACGACCTCGTTAAGGAGGAGCTGAACATCATCCAAGGGGCGCTGGAGCTCCGCA
 CCAAGACGGTGGAGGACGTGATGACCCACTCCGGGACTGTTTCATGATCACCGGCGAAG
 CCATCCTGGACTTCAACACCATGTCTGAGATCATGGAGAGCGGCTACACCCGCATTCCAG
 TGTTTGAAGGGGAGCGCTCCAATATCGTGGACCTGCTGTTTGTCAAAGACTTGGCCTTCG
 TGGATCCCGATGACTGTACCCCTGAAAAACCATACCAAATTTTATAACCACCCCTTGC
 ACTTTGTTTTCAATGACACCAAGTTGGACGCTATGCTGGAAGAATTTAAGAAAGGTAAAT
 CTCACCTGGCTATCGTGCAGCGGTAAACAATGAGGGAGAAGGGGATCCATTTTATGAAG
 TTCTGGGAATCGTCACCTTAGAAGATGTGATTGAAGAAATCATCAAATCTGAGATTCTTG
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 NAGCAGATTNTTCTGCCTTTAAGCAGACAGACAGTGAGAATGAAGNTAANATATACCA
 CAGCTCCTCCTGGCCATGCACCGTTTCTAGCAACAGAAGTAGAAGCATTAGCCATNCC
 AGATGTAANAAGAAGATCCTTCTAAGCTGCTAAAGCACCCCATGTCATCCAGGACTGAAA
 TTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017649 unedited
 GTCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTCTTGCCAATGATAA
 ACCATGGNGTTTTAAATTCATTAACATTCATTTTGGTGATAAAAATTCCTTAGGGTGGGA
 GCAAAATCACATTCCCAAGCAAATGTTAAATCTTCTGAGGGAAAGGGGTACAGTTAAAC
 ATTAATTTCTCAAATACCACTGAGCTCAGAGAGGTGATTGCAGGTCCCTCTGAGGCAGG
 CTACACCCACAGTGATGACAGACTTGGCAGGTTCTGCAGTAACACGGTCTTCTTCATTC
 AGCCAGCGAGATCGACGGTGTGCCCCACTGGGGCACAGAGGAAGGGTGCCCTCGCTGGG
 AGGGCCAAGGAAGGCTACCGGAGGGGCAAGTCCAGCCCATCAGGGTCACATCATGGGATC
 ACAGCAGAGTTTACAGACAGAACTTAAACTCTGCAAAAGACACTTTAAAAACATGATC
 TCTTGAATAAATAAATCGCAACAATTTCAACTTCATGCAAAATCGAGGGCAGAGGAGTGT
 GAATAATGATAAAAAGGAGAGCTGAAAAATAAACATGATTCTATTTGGGCGGAATCAGT
 TCATCTCAAAATCTTGAACGCCATGCCCGGCTGCCAACTTCACATCTCTCGTTTCCAT
 TCCTCCCTCACTGTCTCTCCGCGGCTCCTGGGAAGGGCACAAGGTCTTTGGTCTCAAG
 ATGTTGCAGGGTACAGCATGGCGGACAAGCTCACACCAGTGAAGTCATGGGCAGACAGGG
 CCCGGCCCTTCCGACTTGGCCGGTGCCGCCCTTGGCCGGTGCACCAACGCCCTAAAT
 GCGCCTTCTTTGGCAGCCTGTGGTTGCCTACTGTCTGACAAATTTGTTCTGACAGTT
 GGCTGTCTCTTTGGCACCCGCAATGCAATCCTAAGATCATTTCG

Restriction Sites:

NotI-NotI

ACCN:

NM_017649

Insert Size:

2380 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:

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_017649.1](#), [NP_060119.1](#)

RefSeq Size: 4214 bp

RefSeq ORF: 1191 bp

Locus ID: 54805

UniProt ID: [Q9H8M5](#)

Cytogenetics: 10q24.32

Domains: CBS, DUF21

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 (1) represents the longest transcript and encodes the longest isoform (1).