

Product datasheet for **RG202956**

CNNM2 (NM_199077) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNNM2 (NM_199077) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNNM2
Synonyms:	ACDP2; HOMG6; HOMGSMR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202956 representing NM_199077
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTGGCTGTGGCGCTTGTGAACCCAAAGTAAAGATGGCGGGCGGCCAGGCAGCCGCCACTGCCCA
 CTTGGAAGATGGCGGCGCCGACGCTCAGCGCTCGCGGCCGGGGATCCTGCAGGCGGCTGCGGGCG
 GCTGCTGCCGCTGCTCCTGCTGAGCTGCTGCTGCGGTGCGGGCGGCTGCGCAGCGGTGGCGAGAATGAG
 GAGACGGTGATCATCGGGCTGCGACTGGAGGACACGAACGACGTGTCTTTCATGGAAGGGGGGCGCTGC
 GGGTGAGCGAACGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAATAACGAGACGTGGTCCCG
 CATCGCCTTACCAGACGAGCGGGCGGCCACAGCCCGGGGAGCGCGGGCTGGGGGGCCCCGCGCCG
 CCAGAGCCGACAGCGGCCCCAGCGATCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTAACCGCCGACCTCGGGCATCATCGAGATCGAGATCAAACCGCTACGCAAGATGGAGAAGAGCAA
 GTCCTATTACCTGTGACGTGCTCTCCACGCCGCCCTGGGCGCCGGCGGCTCGGGGTCCACGGGTGGC
 GCCGTGCGGGGCAAGGGTGGCTCGGGGTGGCCGGCTCCCGCCGCCCGTGGGCCGAGACCACCTGGA
 TTTACCACGACGGCGAGGACACCAAGATGATCGTAGGCGAAGAGAAGAAGTTCCTGCTGCCCTTCTGGCT
 GCAGGTGATCTTCATTTGCTGCTGCTGTGCCTGTGCGGCATGTTGAGCGGCCTCAACCTGGGGCTCATG
 GCCCTGGACCCGATGGAGCTGCGCATCGTGCAAACTGCGGCACGGAGAAGGAGAAGAATTACGCCAAGC
 GCATCGAGCCGGTGGCAGGCGAGGCAACTACCTGCTGTGCTCACTGCTGCTGGGCAACGTGCTGGTCAA
 CACCACGCTCACCATCCTGCTCGACGACATCGCCGGCTCGGGCCTCGTGGCCGTGGTAGTCTCCACCATC
 GGTATCGTCATCTTCGGAGAGATCGTGCCCGAGCCATCTGCCCGGCATGGCCTGGCTGTGGGGGCCA
 ACACCATCTTCCACCAAGTTTTTCATGATGATGACCTTCCCCGCTTCTACCCGGTCAGCAAGCTGCT
 GGACTGCGTCTGGGCCAGGAGATAGGCACCGTCTATAACCGGGAAAACTGCTGGAGATGCTCCGGGTC
 ACCGATCCCTACACGACCTCGTTAAGGAGGAGCTGAACATCATCCAAGGGCGCTGGAGCTCCGACCA
 AGACGGTGGAGGACGTGATGACCCACTCGGGACTGCTTATGATCACCAGGCGAAGCCATCCTGGACTT
 CAACACCATGTCTGAGATCATGGAGAGCGGCTACACCCGATTCCAGTGTGTTGAAGGGGAGCGCTCCAAT
 ATCGTGGACCTGCTGTTGTCAAAGACTTGGCCTTCGTGGATCCCGATGACTGTACCCCCCTGAAAACCA
 TCACCAAAATTTATAACCAACCCCTTGACTTTGTTTTCAATGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGAACACACAAACAAGAAACCAATCATACCAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202956 representing NM_199077
 Red=Cloning site Green=Tags(s)

MIGCGACEPKVKMAGQAAAALPTWKMAARRSLSARGRILQAAAGRLLPLLLLSCCCGAGGCAAVGENE
 ETVIIGLRLEDTNDVSFMEGGALRVSERTRVKLRVYQONINNETWSRIAFTEHERRRHSPGERLGGPAP
 PEPDSGPQRGIRTSDIILPHIILNRRSGIIEIEIKPLRMEKSKSYLLCTSLSTPALGAGGSGSTGG
 AVGGKGGSGVAGLPPPPWAETTWIYHDGEDTKMIVGEEKFLLPFWLQVIFISLLLCLSGMFSGLNLGLM
 ALDPMELRIVQNCGTEKEKNYAKRIEPRRQGNLCSLLLGNLVNNTLTILLDDIAGSGLVAVVVSTI
 GIVIFGEIVPQAICSRHGLAVGANTIFLTKFFMMTFPASYPVSKLLDCVLGQEIGTVYNREKLEMLRV
 TDPYNDLVKEELNIIQGALELRKTVEDVMTPLRDCFMITGEAILDFNTMSEIMESGYTRIPVFEGERSN
 IVDLLFVKDLAFVDPDDCTPLKTIKTFYNHPLHFVFNDTKLDAMLEEFKKEHTNKKPKSYQH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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_199077.2 , NP_951059.1
RefSeq Size:	2076 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 Mg ²⁺ . 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]