

Product datasheet for **MG219081**

Cnnm2 (NM_001102471) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnnm2 (NM_001102471) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnnm2
Synonyms:	Acdp2; AU015877; AW048635; Clp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219081 representing NM_001102471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGGCTGTGGCGCTTGTGAACCCGAAGTAAAGATGGCGGGCGGCCAGGCAGCCGCCCACTGCCCA
 CTTGGAAGATGGCGGCGCGCCGACGCTCAGTCCCGCGGCCGGGGGTCTGCAAGCAGCTGCGGGCCG
 GCTGCTGCCGCTGCTACTGCTGAGCTGCTGCTGGGGAGCGGGCGGCTGCACAGCGCCGGCGAGAACGAG
 GAGACCGTGATCATCGGGCTGCGGCTGGAGGATACGAACGACGTGTGTTTCATGGAAGGGGGTCTCTGC
 GGGTGAGCGAGCGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAACAACGAGACGTGGTCCCG
 CATCGCCTTCACTGAGCAGGAGCGCGCCGGCACACACCCAGCGAGCGTGGGCTGGGGGGCCCCGCGCT
 CCGGAGCCGGACAGCGGCCCCAGCGCTGCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTCAATCGCCGACATCGGGCATCATCGAGATCGAGATTAACCGCTGCGCAAGATGGAGAAGAGCAA
 GTCTTATTACCTGTGACGTCTCTCTCCACGCCCGCACTAGGCGCCGGCGGCTCCGGGTCTGCGAGTGGC
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 TTTACCACGACGGTGAGGACACCAAGATGATAGTGGGCGAGGAGAAGAAGTTCTTGTGCCCTTCTGGCT
 GCAAGTGATCTTCATCTCGCTGCTGTGCTGTGCGGCATGTTTCAGCGGCCTCAACCTGGGGCTCATG
 GCTCTGGACCCGATGGAGCTGCGCATCGTGCAAACTGCGGCACGGAGAAAGAGAAGAATTATGCCAAGC
 GCATCGAGCCGGTGGCAGGCAGGGCAACTACCTGCTGTGCTCGCTGCTGCTGGGCAACGTAAGTGGTCAA
 CACCACGCTCACCATCCTGCTGGACGACATTGCGGGCTCAGGCCTTGTGGCGGTGGTGGTCTCCACCATT
 GGCATCGTCATCTTCGGAGAAATCGTGCCCAAGCCATCTGCTCCCGACACGGCCTGGCGGTAGGGGCCA
 ACACCATCTTCTCACCAGTTTTTTCATGATGATGACATTCCTCCGCTTCTTATCCGGTTAGCAAATCT
 GGACTGCGTCTGGGCCAGGAGATAGGCACGGTCTATAACCGGGAAAACTGCTGGAGATGCTCCGGGTT
 ACTGACCCTATAACGACCTCGTTAAGGAAGAGCTGAACATCATCCAAGGGCGCTGGAGCTCCGACCA
 AGACGGTGGAGGACGTGATGACTCCCTCAGGGACTGCTTCATGATAACCGGCGAGGCTATCCTGGACTT
 CAACACCATGTCGGAGATCATGGAGAGTGGCTACACTCGAATCCCGGTGTTTCGAGGGAGAACGTTCCAAC
 ATCGTGGACCTGCTCTTTGTCAAAGACTTGGCCTTCGTGGATCCGGATGACTGTAATCCCTTGAAAACCA
 TCACCAAGTTTTACAATCACCCTTTCGACTTCTGTTTTCAACGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGGGAAATCCACCTGGCCATTGTGCAGCGAGTGAACAATGAGGGTGAAGGGGACCCATTT
 TATGAAGTCTGGGAATTGTCACCTTGAAGATGTGATTGAAGAATCATCAAATCTGAAATCTTGGATG
 AGACAGACCTGTACACCGATAACAGAACAAAAAGAAAGTGGCCACCGTGAAAGAAAGCAAGATTTCTC
 TGCCTTTAAGCAGACGGACAGCGAGATGAAGGTTAAAATATCACCGCAGCTTCTCCTGGCCATGCACCGT
 TTCTTAGCAACAGAAGTAGAAGCGTTTAGCCCATCCCAGATGTCAGAGAAGATCCTCCTAAGGCTGCTAA
 AGCACCCCAATGTCATCCAGGAGCTGAAGTACGACGAGAAGAACAAGAAAGCCCTGAGTGTACCTCTA
 CCAGCGGAACAAGCCGTAGACTACTTCGTCCTCATTCTTCAGGGGAAGGTGGAGGTGGAAGCTGGGAAA
 GAAGGCATGAAGTTTGAAGCCAGCGCTTCTCCTACTATGGTGTGATGGCCCTCACAGCCTCTCCAGGG
 AAAATAAGTCACTCCTCGCCCTGTGGCTGAATCACTCAGATTCTCTCAGTGGAGCGACCGGATTGA
 CGCCATGACGCCAACCTTGGGGAGCAGCAACAACCAGCTCAGCTTTCCTTCAAGTCTACATCCCT
 GACTACTCAGTACGAGCCCTCTGACCTACAGTTCGTCAGATCTCCAGACAGCAATACCAAATGCCT
 TGATGGCGTCTCGGATGGACAAAACGCCTCAGTCTTCAGACAGTAAAACTAAATTAATTGACTCT
 TACGGAGTGCATGACGGCTTGCCAGATGAGACGGCCAACTTGCTCAATGAACAGAACTGTGTGTACAC
 AACAAAGGCCAACACAGCCTGCACAGTGAAGGCGCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219081 representing NM_001102471
Red=Cloning site Green=Tags(s)

MIGCGACEPEVKMAGGQAAAAALPTWKMAARRSLSARGRGLVQAAAGRLLPLLLLSCCWGAGGCTAAGENE
ETVIIIGLRLEDTNDVSFMEGGALRVSERTRVKLRVYQINNETWSRIAFTEHERRRHTPSERGLGGPAP
PEPDSGPQRCGIRTSDIILPHIILNRRTSGIIEIEIKPLRKMESKSYLCTSLSTPALGAGGSGSASG
TVGGKGGAGVAGLPPPWAETTIIYHDGEDTKMIVGEEKKFLLPFWLQVIFISLCLSGMFSGLNLGLM
ALDPMELRIVQNCGTEKEKNYAKRIEPRRQGNLCSLLGNVLYNTTLLILLDDIAGSGLVAVVSTI
GIVIFGEIVPQAICSRHGLAVGANTIFLTKFFMMTFPASYPVSKLLDCVLGQEIGTVYNREKLEMLRV
TDPYNDLVKEELNIIQGALELRKTVEDVMTPLRDCFMITGEAILDFNTMSEIMESGYTRIPVFEGERSN
IVDLLFVKDLAFVDPDDCTPLKTIKTFYNHPLHFVFNDTKLDAMLEEFKKGKSHLAIVQRVNNEGEGDPF
YEVLGIVTLEDVIEEIIKSEILDETDLYDNRTKKKVAHRERKQDFSAFKQTDSEMVKIISPQLLAMHR
FLATEVEAFSPSQMSEKILLRLLKHPNVIQELKYDEKNKAPECYLYQRNKPVDYFVLIQGVVEEAGK
EGMKFEASAFSYGVMALTASPGENKSPRRCGLNHSDSLSRSDRIDAMTPTLGSSNNQLSSSFLQVYIP
DYSVRALSDLQFVKISRQYQNALMASRMDKTPQSSDSENTKIELTLTELHDGLPDETANLLNEQNCVSH
NKANHSLHSEGAI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001102471

ORF Size: 2559 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.

RefSeq: [NM_001102471.1](#), [NP_001095941.1](#)

RefSeq Size: 3264 bp

RefSeq ORF: 2562 bp

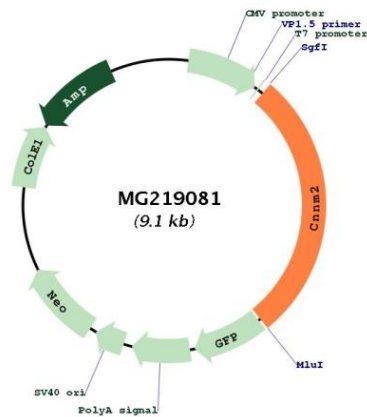
Locus ID: 94219

UniProt ID: [Q3TWN3](#)

Cytogenetics: 19 38.97 cM

Gene Summary: Divalent metal cation transporter. Mediates transport of divalent metal cations in an order of Mg(2+) > Co(2+) > Mn(2+) > Sr(2+) > Ba(2+) > Cu(2+) > Fe(2+).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219081