

Product datasheet for **MG218370**

Cnnm2 (NM_033569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnnm2 (NM_033569) 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:

>MG218370 representing NM_033569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGGCTGTGGCGCTTGTGAACCCGAAGTAAAGATGGCGGGCGGCCAGGCAGCCGCCCACTGCCCA
 CTTGGAAGATGGCGGCGCGCCGACGCTCAGTGCCCGCGGCCGGGGGTCTGCAAGCAGCTGCGGGCCG
 GCTGCTGCCGCTGCTACTGCTGAGCTGCTGCTGGGGAGCGGGCGGCTGCACAGCGCCGCGGAGAACGAG
 GAGACCGTGATCATCGGGCTGCGGCTGGAGGATACGAACGACGTGTGTTTCATGGAAGGGGGTGTCTGCTG
 GGGTGAGCGAGCGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAACAACGAGACGTGGTCCCG
 CATCGCCTTCACTGAGCAGGCGCGCCGCGCACACCCAGCGAGCGTGGGCTGGGGGGCCCCGCGCCT
 CCGGAGCCGACAGCGGCCCCAGCGCTGCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTCAATCGCCGACATCGGGCATCATCGAGATCGAGATTAACCGCTGCGCAAGATGGAGAAGAGCAA
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 ACCGTGCGGGGCAAGGGTGGCGCGGGGGTGGCCGACTCCCGCCTCCTCGTGGGCCGAGACCACCTGGA
 TTTACCACGACGGTGAGGACACCAAGATGATAGTGGGCGAGGAGAAGAAGTTCTTGTGCCCTTCTGGCT
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 AGCATCTTCCCTACCAAGTTTTTCATGATGATGACATTCCTCCGCTTCTTATCCGGTTAGCAAATCT
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 ATCGTGGACCTGCTCTTGTCAAAGACTTGGCCTTCGTGGATCCGGATGACTGTACTCCCTTAAAAACCA
 TCACCAAGTTTTACAATCACCCTTTCGACTTCTGTTTTCAACGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGGGAAATCCACCTGGCCATTGTGCAGCGAGTGAACAATGAGGGTGAAGGGGACCCATTT
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 CCAGCGGAACAAGCCGTAGACTACTTCGTCCTCATTCTTCAGGGGAAGGTGGAGGTGGAAGCTGGGAAA
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 GGCGTCTCGGATGGACAAAACGCCTCAGTCTTCAGACAGTGAAAACTAAAATTGAATTGACTCTTACG
 GAGCTGCATGACGGCTTGCCAGATGAGACGGCCAACCTGCTCAATGAACAGAAGTGTGTGCACACAACA
 AGGCCAACACAGCCTGCACAGTGAAGGCGCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218370 representing NM_033569
 Red=Cloning site Green=Tags(s)

MIGCGACEPEVKMAGGQAAAAALPTWKMAARRSLSARGRGLVQAAAGRLLPLLLLSCCWGAGGCTAAGENE
 ETVIIGLRLEDNDVSMEGGALRVSERTRVRLRVYQGNINNETWSRIAFTEHERRRHPTSERGLGGPAP
 PEPDSSGPQRCGIRTSIIILPHIILNRRTSGIIEIEIKPLRKMESKSYLCTSLSTPALGAGGSGSASG
 TVGGKGGAGVAGLPPPPWAETTIIYHDGEDTKMIVGEEKFLLPFWLQVIFISLLLCLSGMFSGLNLGLM
 ALDPMELRIVQNGTEKEKNYAKRIEPVRRQGNLYLLCSLLLGNVLYNTTLLTILLDDIAGSGLVAVVSTI
 GIVIFGEIVPQAICSRHGLAVGANTIFLTKFFMMTFPASYPVSKLLDCVLGQEIIGTVYVYREKLEMLRV
 TDPYNDLVKEELNIIQGALELRKTVEDVMTPLRDCFMITGEAILDFNTMSEIMESGYTRIPVFEGERSN
 IVDLLFVKDLAFVDPDDCTPLKTIKFNHPLHFVFNDFKLDAMLEEFKKGKSHLAIVQRVNNEGEGDPF
 YEVLGIVTLEDVIEEIKSEILDETDLYDNRTKKKVAHREKQDFSAFKQTDSEMVKVISPQLLAMHR
 FLATEVEAFSPSQMSEKILLRLLKHPNVIQELKYDEKNKAPECYLYQRNKPVDYFVLIQKVEVEAGK
 EGMKFEASAFSYGVMALTASPVPLSLRFTFVSRTEVLAAGSPGENKSPPRPCGLNHSDLSRSDRIDA
 MPTPLGSSNNQLSSSFLQYIIPDYSVRALSDFVKISRQYQNALMASRMDKTPQSSDSENTKIELTLT
 ELHDGLPDETANLLNEQNCVSHNKANHSLHSEGA

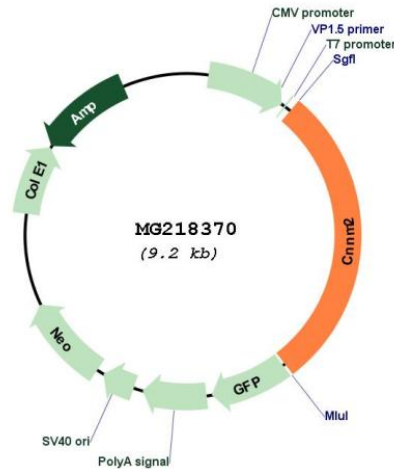
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_033569

ORF Size: 2625 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_033569.3](#), [NP_291047.2](#)

RefSeq Size: 3330 bp

RefSeq ORF: 2628 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]