

Product datasheet for **MR218370**

Cnm2 (NM_033569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnm2 (NM_033569) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnm2
Synonyms:	Acdp2; AU015877; AW048635; Clp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218370 representing NM_033569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGGCTGTGGCGCTTGTGAACCCGAAGTAAAGATGGCGGGCGGGCAGGCAGCCGCCCACTGCCCA
 CTTGGAAGATGGCGGCGCGCCGACGCTCAGTCCCGCGGCCGGGGGTCTGCAAGCAGCTGCGGGCCG
 GCTGCTGCCGCTGCTACTGCTGAGCTGCTGCTGGGGAGCGGGCGGCTGCACAGCGCCGCGGAGAACGAG
 GAGACCGTGATCATCGGGCTGCGGCTGGAGGATACGAACGACGTGTCTTTCATGGAAGGGGGTCTCTGC
 GGGTGAGCGAGCGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAACAACGAGACGTGGTCCCG
 CATCGCCTTCACTGAGCAGGAGCGCGCCGCGCACACCCAGCGAGCGTGGGCTGGGGGGCCCCGCGCCT
 CCGGAGCCGACAGCGGCCCCAGCGCTGCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTCAATCGCCGACATCGGGCATCATCGAGATCGAGATTAACCGCTGCGCAAGATGGAGAAGAGCAA
 GTCTTATTACCTGTGACGTCTCTCTCCACGCCGCACTAGGCGCCGGCGGCTCCGGGTCTGCGAGTGGC
 ACCGTGCGGGGCAAGGGTGGCGCGGGGGTGGCCGACTCCCGCCTCCTCGTGGGCCGAGACCACCTGGA
 TTTACCACGACGGTGAGGACACCAAGATGATAGTGGGCGAGGAGAAGAAGTTCTTGTGCCCTTCTGGCT
 GCAAGTGATCTTCATCTCGCTGCTGTGCTGTGCGGCATGTTGAGCGGCCTCAACCTGGGGCTCATG
 GCTCTGGACCCGATGGAGCTGCGCATCGTCAAAAAGTGGCGCACGGAGAAAGAGAAGAATTATGCCAAGC
 GCATCGAGCCGGTGGCGAGGCAGGGCAACTACCTGCTGTGCTCGCTGCTGCTGGGCAACGTAAGTGGTCAA
 CACCACGCTCACCATCCTGCTGGACGACATTGCGGGCTCAGGCCCTGTGGCGGTGGTGGTCTCCACCATT
 GGCATCGTCATCTTCGGAGAAATCGTGCCCAAGCCATCTGCTCCCGACACGGCCTGGCGGTAGGGGCCA
 ACACCTCTTCTCACCAGTTTTCATGATGATGACATTCCTCCGCTTCTTATCCGGTTAGCAAATCT
 GGACTGCGTCTGGGCCAGGAGATAGGCACGGTCTATAACCGGGAAAAACTGCTGGAGATGCTCCGGGTT
 ACTGACCCTATAACGACCTCGTTAAGGAAGAGCTGAACATCATCCAAGGGCGCTGGAGCTCCGACCA
 AGACGGTGGAGGACGTGATGACTCCCTCAGGGACTGCTTCATGATAACCGGCGAGGCTATCCTGGACTT
 CAACACCATGTCGGAGATCATGGAGAGTGGCTACACTCGAATCCCGGTGTTGAGGGGAGAAGCTTCAAC
 ATCGTGGACCTGCTTTTGTCAAAGACTTGGCCTTCGTGGATCCGGATGACTGTACTCCCTTGAAAACCA
 TCACCAAGTTTACAATCACCCTTTCGACTTCTGTTTTCAACGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGGGAAATCCACCTGGCCATTGTGACGCGAGTGAACAATGAGGGTGAAGGGGACCCATTT
 TATGAAGTCTGGGAATTGTACCTTGAAGATGTGATTGAAGAATCATCAAATCTGAAATCTTGGATG
 AGACAGACCTGTACACCGATAACAGAACAAAAAGAAAGTGGCCACCGTGAAAGAAAGCAAGATTTCTC
 TGCCTTAAGCAGACGGACAGCGAGATGAAGGTTAAAATATCACCGCAGCTTCTCCTGGCCATGCACCGT
 TTCTTAGCAACAGAAGTAGAAGCGTTTAGCCATCCCAGATGTCAGAGAAGATCCTCCTAAGGCTGCTAA
 AGCACCCCAATGTCATCCAGGAGCTGAAGTACGACGAGAAGAACAAGAAAGCCCTGAGTGTACTCTA
 CCAGCGGAACAAGCCGTAGACTACTTCGTCCTCATTCTTCAGGGGAAGGTGGAGGTGGAAGCTGGGAAA
 GAAGGCATGAAGTTTGAAGCCAGCGCTTCTCCTACTATGGTGTGATGGCCCTCACAGCCTCTCCAGTTC
 CTTTGTCCCTGTCTCGCACCTTTGTTGTGACGAGGACAGAGGTGTAGCTGCGGGCTCTCCAGGGGAAAA
 TAAGTCACTCCTCGCCCTGTGGCTGAATCACTCAGATTCTCTCAGTCGGAGCGACCGGATTGACGCC
 ATGACCCAACCTTGGGAGCAGCAACAACAGCTCAGCTCTTCTTCAAGTCTACATCCCTGACT
 ACTCAGTACGAGCCCTCTGACCTACAGTTCGTCAGATCTCCAGACAGCAATACCAAAATGCCTTGAT
 GGCGTCTCGGATGGACAAAACGCCTCAGTCTTCAGACAGTAAAAACTAAAATTGAATTGACTCTTACG
 GAGCTGCATGACGGCTTGCCAGATGAGACGGCCAATTGCTCAATGAACAGAAGTGTGTGCACACAACA
 AGGCCAACACAGCCTGCACAGTGAAGGCGCCATC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218370 representing NM_033569
 Red=Cloning site Green=Tags(s)

MIGCGACEPEVKMAGGQAAAAALPTWKMAARRSLSARGRGVLQAAAGRLLPLLLLSCCWGAGGCTAAGENE
 ETVIIGLRLEDTNDVSFMEGGALRVSERTRVKLRVYQINNETWSRIAFTEHERRRHTPSERLGGPAP
 PEPDSDGPQRCGIRTSDIILPHIILNRRTSGLIEIEIKPLRKMESKSYLCTSLSTPALGAGGSGSASG
 TVGGKGGAGVAGLPPPPWAETTIIYHDGEDTKMIVGEEKFLLPFWLQVIFISLLCLSGMFSGLNLGLM
 ALDPMELRIVQNGTEKEKNYAKRIEPVRRQGNVLLCSLLGNVLYNTTLLILLDDIAGSGLVAVVSTI
 GIVIFGEIVPQAICSRHGLAVGANTIFLTKFFMMTFPASYPVSKLLDCVLGQEI GTVYVYREKLEMLRV
 TDPYNDLVKEELNIIQGALELRKTVEDVMTPLRDCFMITGEAILDFNTMSEIMESGYTRIPVFEGERSN
 IVDLLFVKDLAFVDPDDCTPLKTIKTFYNHPLHFVFNDFKLDAMLEEFKKGKSHLAIVQRVNNEGEGDPF
 YEVLGIVTLEDVIEEIKSEILDETDLYDNRTKKKVAHREKQDFSAFKQTDSEMVKKISPQLLAMHR
 FLATEVEAFSPSQMSEKILLRLLKHPNVIQELKYDEKNKAPECYLYQRNKPVDYFVILIQGKVEVEAGK
 EGMKFEASAFSYGVMALTASPVPLSLSRTFVVSRTVEVLAAGSPGENKSPPRPCGLNHSDSLRSRDRIDA
 MPTPLGSSNNQLSSSFLQVYIPDYSVRALSDDLQFVKISRQYQNALMASRMDKTPQSSDSENTKIELTLT
 ELHDGLPDETANLLNEQNCVSHNKANHSLHSEGA I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

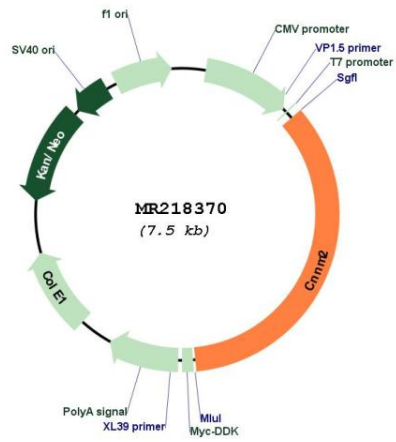
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:	<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_033569.3 , NP_291047.2
RefSeq Size:	3330 bp
RefSeq ORF:	2628 bp
Locus ID:	94219
UniProt ID:	Q3TWN3
Cytogenetics:	19 38.97 cM
MW:	97.2 kDa
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 MR218370