

Product datasheet for **RN208516**

Cnm2 (NM_001011942) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cnm2 (NM_001011942) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cnm2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN208516 representing NM_001011942
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGGCTGTGGAGCTTGTGAACCCGAAGTAAAGATGGCGGGCGGCCAGGCAGCCGCCCACTGCCCA
 CTTGGAAGATGGCGGCGCGCCGAGCCTCAGTCCCGCGGCCGGGGGTCTGCAGGCAGCTGCGGGCCG
 GCTGCTGCCGCTGCTACTGCTGAGCTGCTGCTGCAGCGCGGGCGGCTGCACAGCGCCGGCGAGAACGAG
 GAGACTGTGATCATCGGACTGCGGCTGGAGGATACGAACGACGTGTCTTTCATGGAAGGGGGTCTCTGC
 GGGTGAGCGAGCGGACCCGGGTCAAGCTGCGGGTGTACGGGCAGAACATCAACAACGAGACATGGTCCCG
 CATCGCCTTCACTGAGCACGAGCGCGCCGGCACACACCCGGCGAGCGTGGGCTGGGGGGCCCCGCGCT
 CCGGAGCCGACAGTGGCCCCAGCGCTGCGGCATCCGCACCTCAGACATCATCATCTTGCCCCACATCA
 TTCTCAATCGCCGACATCGGGCATATTGAGATCGAGATCAAACCGCTGCGCAAGATGGAGAAGAGCAA
 GTCTTATTACCTGTGACGTCTCTCTCCACGCCGCATTGGGCGCCGGCGCTCCGGGTCTGCGAGTGGC
 ACCGTCGGGGGCAAGGGTGGCGCGGGGGTGGCTGGACTCCCGCTCCTCCCTGGGCCGAGACCACCTGGA
 TTTACCACGACGGTGAGGACACCAAGATGATAGTGGGCGAGGAGAAGAAGTTCTTGTGCCCTTCTGGCT
 GCAAGTGATCTTCATCTCGCTGCTGTGCTGTCCGGCATGTTGAGCGGCTCAACCTGGGGCTCATG
 GCTCTGGACCCGATGGAGCTGCGCATCGTGCAAACTGCGGCACGGAGAAAGAGAAGAATTATGCCAAGC
 GCATCGAGCCGGTGGCAGGCGAGGGCAACTACCTGCTGTGCTCGCTGCTGCTGGGAAACGTAAGTCAA
 CACCACGCTCACCATCCTGCTCGACGACATTGCGGGCTCAGGCCCTGTGGCGGTGGTGTCTCCACCATT
 GGCATCGTCATCTTCGGAGAAATCGTGCCCAAGCCATTGCTCCCGACACGGCTGGCGGTAGGGGCCA
 ATACCATCTTCTCACCAGTTTTTCATGATGATGACCTTCCCCGTTCTTACCCGGTTAGCAAATCT
 GGACTGCGTCTGGGCCAGGAGATAGGCACTGTCTATAACCGGGAAAACTGCTAGAGATGCTCCGGGTT
 ACTGACCCTACACGACCTCGTTAAGGAGGAGCTGAACATCATCCAAGGGGCGCTGGAGCTCCGACCA
 AGACGGTGGAGGACGTGATGACTCCCTCAGGGACTGCTTCATGATCACCGGCGAGGCTATCCTGGACTT
 CAACACCATGTCTGAGATCATGGAGAGTGGCTACACTCGAATCCCAGTGTTCGAGGGAGAACGGTCCAAC
 ATCGTGGATCTGCTTTTGTCAAAGACTTGGCCTTCGTGGATCCAGATGACTGTACTCCCTTAAAAACCA
 TCACCAAAATTTACAACCACCTTTGCACTTTGTTTTCAATGACACCAAGTTGGACGCTATGCTGGAAGA
 ATTTAAGAAAGGTAAATCCCACCTGGCCATTGTGCAGCGAGTGAACAATGAGGGCGAAGGGGACCCGTTT
 TATGAAGTCTGGGAATTGTACCTTGAAGATGTGATTGAAGAAATCATCAAATCTGAAATCTTGGATG
 AGACAGACTTGTACCCGACAACAGAACAAGAAAGAAAGTGGCCACCGTGAAAGAAAGCAAGATTTCTC
 TGCCTTTAAGCAGACGGACAGCGAGACGAAGTTAAAATATCACCGCAGCTTCTCCTGGCCATGCACCGT
 TTCTTAGCAACAGAAGTAGAAGCATTAGCCCATCCCAGATGTCAGAGAAGATCCTCCTAAGGCTGCTAA
 AGCACCCCAATGTATCCAGGAAGTGAAGTACGACGAGAAGAACAAGAAAGCCCCGAAATGTACTCTTA
 CCAGCGGAACAAGCCGTAGACTACTTCGTCTCATTCTGCAGGGAAAGGTGGAGGTAGAAGCTGGGAAA
 GAAGGCATGAAGTTTGAAGCCAGTGCCTTTTACTACTACGGTGTGATGGCCCTCACAGCCTCTCCAGTTC
 CTTTGTCCCTGTCTCGCACCTTTGTTGTGACAGGACAGAGGTGTAGCTGCGGGCTCTCCAGGTGAAAA
 TAAGTCACTCCTCGCCCTGCGGCTGAATCACTCGACTCTCTCAGTCGGAGCGACCGGATTGATGCC
 ATGACACCCACCTTGGGAGCAGCAACAACAGCTCAGCTCTTCAATTCCTACAAGTCTACATCCCGGATT
 ACTCAGTGCAGCCCTCTCCGACCTACAGTTCGTCAAGATCTCCAGACAGCAATACCAAAATGCCTTGAT
 GGCGTCCCGGATGGACAAAACGCCTCAGTCTTCAGACAGTAAAAACTAAAATTGAATTGACTCTTACG
 GAGATGCATGACGGCTTGCCAGACGAGACGGCCAACTTGTCAATGAACAGAAGTGTGTGCACACAATA
 AGGCCAACACAGCCTGCACAGTGAAGGCGCCAT**CTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001011942
Insert Size: 2628 bp

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| 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: | <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: | <u>NM_001011942.1</u> , <u>NP_001011942.1</u> |
| RefSeq Size: | 3300 bp |
| RefSeq ORF: | 2628 bp |
| Locus ID: | 294014 |
| UniProt ID: | <u>Q5U2P1</u> |
| Cytogenetics: | 1q54 |
| 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] |