

## Product datasheet for **RN217195**

### **Cnnm4 (NM\_001271050) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnnm4 (NM_001271050) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cnnm4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217195 representing NM\_001271050  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCCGGGGGCGGGGCGGGCGGGACGGCTGGCCGGCCGAGGGCGCCTCCTCTGGCCGCGC  
TGCTGCTGCTGCTATGGACGCGGGCGGCCAGCGCCAGAGCAGCCCCAGCAGAGCGTGATCCTAGGCAT  
GAGGCTGGCGAGCTGCAACAAGTCGTGCGGGATGAACCCGGATGGCATCATCTTCGTGTCGAGGGCAGC  
ACGGTGAACCTGAGGCTCTACGGCCACAGACTGGGCGAGATCTCTAGCAACCTGATCTCCTTACCCGAGG  
TGGACGACGCGGAGACGGTCCACAACCTCCACCACTGCCTGGAGCTCACAAGGACTTAGTGGTCCAGCG  
GCTGGTCAACGTGAGCCGCGGAACACGTGCGGGATGCTAGTGGTGATTACCAAGTTCCTGCGGAGGAGT  
GAGAACATGAAGCTGTACGCGCTGTGCACCCGGACCCGGGCGACGGGCCCTGGCTCAAATGGACGGACA  
AGGACTCCCTGCTCTTCATGGTGGAGGAGCATGGGAGTTTCTGCCGCTCTGGCTGCACATCCTTCTTGT  
TTTGGTGTGTTGGTGTGTCGGGCATCTTTCTGGCCTCAACTGGGGCTTATGGCCCTGGACCCGATG  
GAGTTGCCATCGTGAGAAGTGTGAACTGAGAAGGAGAGAAGGTACGCTCGAAAGATAGAGCCATCA  
GGCGCAAGGGCAACTACCTGCTCTGCTCGCTGCTCCTGGGGAATGTGCTAGTCAACACCTCCCTCACCAT  
CCTTCTAGACAACCTCATCGTTCTGGCATCATGGCAGTGGCCTCCTCCACCATTGGCATTGTCACTTT  
GGGAGATCTTACCTCAAGCCCTGTGCTCCAGGCATGGGCTGGCTGTGGGTGCCAACACTATTGTTCTCA  
CCAAAATCTTTATGTTACTCACTTTCCCCCTGAGTTTCCCAATTAGCAAACCTCTGGACTTCGTCTTGGG  
TCAGGAGATTCGACTGTTTACAATCGGGAGAACTGATGGAGATGTTGAAGGTGACAGAGCCCTATAAT  
GACCTGGTGAAGGAGGAGTTAAACATGATCCAGGGTCTCTGAACTAAGGACAAAACCTGTGGAGGATA  
TCATGACCCAGCTACACGACTGCTTCATGATCCGCAGTGATGCCATTCTGGACTTCAACACCATTGCGGA  
GATTATGGAGAGTGGCTATACTCGCATTCTGTGTTTGAAGATGAGCAGTCCAATATCGTAGATATCCTT  
TACGTCAAAGACCTGGCTTTTGTGACCCAGATGACTGCACCCGCTCAAGACGATCACTCGCTTCTACA  
ACCACCCGGTCCATTTTGTTTTTCATGACACCAAGCTGGATGCCATGCTGGAGGAATTCAAGAAGGGCAA  
GTCCCACCTGGCCATCGTGAGAAGGTGAACAATGAGGGCGAGGGCGACCCCTTCTACGAGGTGCTGGGC  
CTGGTCAACCTGGAGGACGTCTCGAGGAGATCATCAAGTCTGAGATCCTGGATGAGTCGGACACGTACA  
CTGACAATCGAACCCGAAACGGGTGTCCATGAAGAACAAGCGTGACTTCTCTGCCTTCAAGGATGCTGA  
CAATGAACTCAAAGTGAATACTCACCTCAGTCTCTTCTGGCCGCTCACCGCTTCTGGCCACAGAGGTG  
CCGAGTTTCACTCCCTGATGTGAGAGAAGATCCTGCTCCGGCTGCTCAAGTACCCTGACGTCACTT  
AGGAGCTCAGTTTCGACGAGCACAACAAGCACTGCACCCGCCACTACCTGTACACCCGGAACAAGCCAGC  
CGACTGCTTATTCTATCCTGCAGGGGAAGGTGGAGGTGGAAGCAGGCAAGGAGAATGAAGTTTGAG  
ACCGGTGCCTTCTCGTACTATGGGACCATGGCTCTGTCCCTGGCGCCCCAGACCGGTCCCAGCCCACC  
CAACTCCACTCAGCCGTTAGCCTCCCTCAGTTACCCGGACCCGAACACAGACATGACACCTCCTCCCT  
GGCAGGCAGCAACCAGTTTGGCAGCTGCATTCTGGCCAGTATGTCTCTGACTTCAGTGTGCGGGCGCTC  
ACAGACCTGCAGTACATTAAGGTACAAGACAGCAGTACCAGAACGGGCTGCTGGCCTCCCAGATGGACA  
ACAGCCCCAGCTCACCTTGGATGGCTGTGCCACCTGCACAGAGAATTAATCCGAGAGGCTGAGCTGCC  
CGTGGTGGACGAGACGACTTCTCAATGAACGCAACTTGTGCTGCACAGAGCCTCCAAGAGGGC  
ACCATCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001271050  
**Insert Size:** 2319 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001271050.1, NP_001257979.1</u>
<b>RefSeq Size:</b>	4599 bp
<b>RefSeq ORF:</b>	2319 bp
<b>Locus ID:</b>	363216
<b>UniProt ID:</b>	<u>P0C588</u>
<b>Cytogenetics:</b>	9q21
<b>Gene Summary:</b>	Probable metal transporter. The interaction with the metal ion chaperone COX11 suggests that it may play a role in sensory neuron functions. May play a role in biomineralization and retinal function.[UniProtKB/Swiss-Prot Function]