

## Product datasheet for **MC221106**

### **Ccnt2 (NM\_028399) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccnt2 (NM_028399) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccnt2
Synonyms:	2900041118Rik; C81304; CycT2; CycT2a; CycT2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC221106 representing NM\_028399  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCGGGCCGTGGAGCTTCTTCTCGCTGGTTCTTTACTCGGGAACAGCTGGAGAACACGCCGAGCC  
 GCCGCTGCGGAGTGGAAGCGGATGAAGAGCTGTGCATCGCCAGCAGCGGCCAACCTCATCCAGGACAT  
 GGGCAACGTCTCAATGTCTCTCAGCTTACAATAAACACTGCGATTGTTTATATGCACAGTTTTTATATG  
 CACCATTCTTACCAAATTAACAGAAATATAATATCACCTACTGCATTGTTTTGGTGCAAAAGTGG  
 AAGAGCAGGCTCGAAAGCTTGAACATGTTATCAAAGTAGCACACGCTTGTCTTATCCCCTAGAGCCACT  
 CCTGGACACAAAATGTGATGCTTATCTTCAGCAGACTCAAGAAGTGGTTTTACTTGAAACCATAATGCTA  
 CAAACTGGGTTTTGAGATCACCATTGAACCCACACAGATGTGGTGAATGCACCCAGTTAGTAA  
 GAGCAAGCAAGGATTTGGCACAGACATCTATTTTCATGGCTACCAACAGTTTGCATCTTACGACCTTCTG  
 TCTTCAGTACAAACCCACAGTATAGCATGTGTATGCATTCAATTTGGCTTGCAAAATGGTCCAATTTGGGAG  
 ATTCTGTGTCAACAGATGGAAAGCACTGGTGGGAGTATGTGGACCCACGGTTACCTAGAGCTGCTAG  
 ATGAACTAACACATGAGTTTCTACAAATATTGGAGAAAACGCCTAGTAGGTTGAAGAGGATTCGAAACTG  
 GAGGGCTATGGCTAAGAAACCAAAGTAGATGGACAAGTATCAGAGACACCACTGCTTGGTTTCATCTTTG  
 GTCCAGAATTTCTATTTTAGTAGATAGTGTCACTGGTGTACCTGCCAACCAAGCTTTAGAAACCATCAA  
 CATCAACGTTCCCTGCTCCAATACCTCTAAATTCAGGAAGTACTTCTGTTCAAGTAGCCGTGCATCTGA  
 TAATTTATCAGTGCTAGCAGCAGGAATGCCAGTACCTCATACAGTTTGTATCACCAAGAGTGGCC  
 CAGCATCCAGATTCAGCCAGGACAGACCCAGTGTACACACAGAAACAGGAGGCCACTCTCTGGGAGCC  
 AGTACATAAGCTTCCAGCAGGGACCTTCAATGGCACTGCATTCTGGATTACATCACAGCCGGACAAAGT  
 TGCTGATCATTATCAGCTAAGCAAGAATACTCACAAGCTGGGAGCAGTAAACACCATGGTCCCATATA  
 CCTGCTACTCCTGGAATGCTTCTCAGAAAATGTCTTTAGATAAGTACAGAGAGAAGCGGAAGCTGGAAA  
 CCCTTGACGTGGACACAAGGGATCACTATCTAGCTGCCATGCAGAACAGCAGCACAAGCATGGGCCGGC  
 TCAGGCAGTCACGGGCACTTCTGTCACTTCTCCCATCAAGATGAAGCTCCCCCTACCAACTCGGACAGG  
 CCTGAGAAACACGTGGCAGAGAAAAGGAGAGGAGTGGATCACTGAAGCTCCGCATTTCCATCCCCCGC  
 CTGACAAAGTCCAGCAAAGAGGAGCTGAAGATGAAAATCAAAGTGGCATCCTCGGAAAGACACAGCTC  
 TTCTGATGAAGGCAGTGGGAAGAGCAAGCACTCAAGCCACACATCAGCAGAGACCACAAGGAGAAGCAC  
 AAGGAGCACCTGCCAACCGCCACCACAGCAGCCACAAGTATTTGCACATGCACAGTGGAGCGAGTAAAGC  
 ACACAGCGGATGGAATGCCTCCACGGTCTCAGGAGTCTGTGGGCCTGGGCCCTGAAGGCGTCTCCTC  
 CGCTCCAGTGAAGGAAGAAGCTGCATAGCAGCGAAGCCTCCCAACCACTCCAAAATGAGCAAA  
 AGTTCCAAAAGTGCAGGTAGTTCATCTAGTTCTTCTCTGTTAAGCAGTATCTATCCTCTCACAGCTCTG  
 TTTTAAACCATCCCTTACCCCTCCTCCCTGTACATACCAGTGGGCTACGGACATCTCAGCACCTC  
 CGTGAAACTGGACAAGAAACAGTGGAGCCCCACGGTCTGAGGCCAATCACGAGTACAGTACAAGCAGC  
 CAGCATATGGACTACAAAGACACATTGACATGCTGGACTCGCTGCTAAGTGCCCAAGGAATGAATATGT  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_028399

**Insert Size:**

2172 bp

**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).

<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><a href="#">NM_028399.1</a></u> , <u><a href="#">NP_082675.1</a></u>
<b>RefSeq Size:</b>	3514 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	72949
<b>UniProt ID:</b>	<u><a href="#">Q7TQK0</a></u>
<b>Cytogenetics:</b>	1 E3
<b>Gene Summary:</b>	Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition from abortive to production elongation by phosphorylating the CTD (carboxy-terminal domain) of the large subunit of RNA polymerase II (RNAP II). The activity of this complex is regulated by binding with 7SK snRNA (By similarity). Plays a role during muscle differentiation; P-TEFB complex interacts with MYOD1; this tripartite complex promotes the transcriptional activity of MYOD1 through its CDK9-mediated phosphorylation and binds the chromatin of promoters and enhancers of muscle-specific genes; this event correlates with hyperphosphorylation of the CTD domain of RNA pol II (PubMed:16245309, PubMed:23060074, PubMed:12037670). In addition, enhances MYOD1-dependent transcription through interaction with PKN1 (By similarity). Involved in early embryo development (PubMed:19364821).[UniProtKB/Swiss-Prot Function]