

## Product datasheet for **MC200387**

### **Ccnd3 (NM\_007632) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccnd3 (NM_007632) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccnd3
Synonyms:	9230106B05Rik; AA682053; AL024085; AW146355; C78795
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC004076 sequence for NM\_007632  
 CCGCGCTCCTCCACGCGCGTCGCTTCTCCTAGGACTCGCTAACCTGCACTCTTGTCTCACCCGTGAG  
 CCATCGCAGGATGGAGCTGCTGTGTTGCGAGGGCACCCGGCACGCGCCCCGGGCCGGCCGACCCGCG  
 CTGCTTGGGGACCAGCGTGTCTGCAGAGTTTACTCCGCTGGAGGAGCGCTACGTGCCGAGCCTCCT  
 ACTTCCAGTGCCTGCAAAAGGAGATCAAGCCGCACATGCCGAAGATGCTGGCATACTGGATGCTGGAGGT  
 GTGTGAGGAGCAGCGCTGCGAGGAGGATGTCTCCCTCTGGCTATGAACCTACCTGGATCGCTACCTGTCC  
 TGCGTCCCAACCGAAAGGCGCAATTGCAGCTTCTAGGTACTGTCTGCCCTGTTGCTGGCCCAAGCTGC  
 GCGAAACCACGCCCTGACTATTGAGAAGCTTTGCATCTATACGGACCAGGCTGTGGCTCCATGGCAGTT  
 GCGGGAGTGGGAGGTGCTGGTCTGGGGAAGCTCAAGTGGGACCTGGCTGCTGTATTGCCACGACTTC  
 CTGGCCTTGATTCTGCACCGCTGTCTCTGCCAGTGACCGGCAGGCTTTGGTCAAAAAGCATGCCCAGA  
 CCTTTTTGGCCCTCTGTGCTACAGATTACACCTTTGCGATGTATCCTCCATCCATGATCGCCACAGGCAG  
 CATTGGGGCAGCCGTGCTAGGCCTAGGCGCCTGCTCTATGTCTGCGGATGAGCTCACAGAGTTGCTGGCC  
 GGGATCACAGGCACTGAAGTGGACTACCTGCGAGCCTGCCAGGAACAGATCGAAGCTGCCCTCAGGGAGA  
 GCCTCAGGGAAGCTGCTCAGACAGCCCCAGCCAGTGCCTAAAGCCCCCGGGGCTCTAGTAGCCAGGG  
 GCCCAGTCAGACCAGCACTCCCACAGATGTCACAGCCATTACCTGTAGCTTGAGACAGGCCCTCTCAGG  
 CCACCAAGCAGAGAGGGGCTCTGCCACCCCTCCCTGCCTCTAGAACAATCCATGCTATATCTGAAGC  
 CCGAGGGGGCTCTCCTTCCCCCTCACAAAGCCCAAGGGGCCAGGTCTGCCTATCCCCACAGTGTGCAC  
 TAAGGGGTTGCATGGTATGAGGGGCGTCTTATGGCCAGTCAGCTCCTTCTTCCCCTCAACCAGC  
 TTGGCTGTCTGGGCCATGATGGTCAGAGAAAATACAAACAGGTAATAATCCACACACCAGCATTCTTTTG  
 AGTCCCTCTTCTGTCGGGGCTCCAACCTTCTCAGTTGCCAAAACGCCCCAGTACCTTCAAAGGTGTTG  
 GCCCTTGACAGGCTCCTTCGGGCATCCCGATAGAAGCTTATGAGGAGTGCCTAGACGGCCTCTGTGTA  
 TCCGTACTCCAGTGTCTTAGAGGGAACAGCCTAGGCTTTGCCAGAGCAGGAACCCATACACTGTTGC  
 TTTGCTTCTGCTTAGCTTCTGTGATTGTGGGTCTTAAGGGTGCCGTGGTCATTTTAATTTATTGCTTT  
 GAATACAAGTGAAGAGGTACAGTGAGGCTGTACCCACAAGTGGTGGTAACCTGGCGGTTGCTCTT  
 TCCTCCCTTCTTCCCTCTGCTACTGCTTTGTGGCCAGGAGTGTACAGCCTGGGATGGGGTCACG  
 CCTTCTCTCCTCACCCCTCCACCTCATCTTATCAGAGCAGGGTTAGGTTGGGATGGATCGATGCCGTG  
 GAGGTGACAGAGCTATCTGGAGAGAGGGCAAGCCCTAGGGTCACAGGCTTTTCTCGGGCCACAAGGTTT  
 GGGCTGGTGGCCATTTCTATCATGCTGCCTAATAAAGATTTCCGAATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_007632

**Insert Size:** 879 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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).

<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>	<a href="#">BC004076</a> , <a href="#">AAH04076</a>
<b>RefSeq Size:</b>	1886 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	12445
<b>UniProt ID:</b>	<a href="#">P30282</a>
<b>Cytogenetics:</b>	17 23.37 cM
<b>Gene Summary:</b>	<p>Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 3. Variant 1 encodes the same protein as variant 3.</p>