

## Product datasheet for **MC206111**

### **Ccnd2 (BC049086) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ccnd2 (BC049086) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccnd2
Synonyms:	2600016F06Rik; AI256817; BF642806; C86853; cD2; Vin-1; Vin1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC049086  
 CGAGCTGAGGAGAGCCGGGACAGTTCGGAGGGAAGGACCGGTGCGAGTTCAGGCGGCCCTTGAGGCTCCGCT  
 CGCCACCTTCCACTCTTCTCTCTCTCCCTCTCTCTTTGCCATTTCTTCTCTCCAAATCTC  
 CCATTCAGCCAAAGGAAGGAGGTAAAGGGAAGCACTCCCGACCCCGCACCTCCAAAAATAATA  
 ATAAAAAATTTACAGTCGGGACCGAGTGGTGGCCGGCTGGCTATGGAGCTGCTGTGCGGAGGTGA  
 CCCGGTCCGACGGGCCGTGCCGACCGCAACCTGCTGGAAGACCGGTTCTGCAGAACCTGTTGACCATC  
 GAGGACCGCTACCTCCCGCAGTGTCTATTTCAAGTGCCTGCAGAAGGACATCCAACCGTACATGCGCA  
 GGATGGTGGCCACCTGGATGCTAGAGGTCTGTGAGGAACAAAAGTGTGAAGAAAGAGGTCTTCTCTGGC  
 CATGAATTACCTGGACCGTTTCTGGCTGGAGTCCCGACTCCTAAGACCCATCTTCAGCTCCTGGGTGCA  
 GTGTGCATGTTCTAGCTTCCAAGCTGAAAGAGACCATCCCGTACTGCGGAAAAGCTGTGCATTTACA  
 CCGACAACCTGTGAAGCCCGAGAGCTGCTGGAGTGGGAACTGGTAGTGTGGGTAAGCTGAAGTGAA  
 CCTGGCCGACGTACCCCTCAGACTTCATTGAGCACATCCTTCGCAAGCTGCCCGACAAAAGGAGAAG  
 CTGTCCCTGATCCGCAAGCATGCGCAGACCTTCATCGCTCTGTGCGCTACCGACTTCAAGTTGCCATGT  
 ACCCGCCGTCGATGATTGCAACTGGAAGCGTGGGAGCAGCCATCTGTGGGCTTCAGCAGGATGATGAAGT  
 GAACACACTCACGTGTGATGCCCTGACAGAGCTGCTGGCCAAGATCACCCACACTGATGTGGATTGTCTC  
 AAAGCCTGCCAGGAGCAAATCGAAGCTCTGCTGCTGAACAGCCTGCAGCAGTTCCGTCAAGAGCAGCATA  
 ACGCCGGATCCAAGTCTGTGGAAGATCCGGACCAAGCCACCACCCTACAGACGTGCGGGATGTTGACCT  
 GTGAGGAAGCCATTCCGGCGGCAAGAGAGAGCGTGTTCGTCTCTGCTAGCCCCCTCTCTCTAGTTA  
 TGTCTTGTCTTTGTGTTTTAGGATGAAACTTCAAAAAAGAAAAAACAACAAAAACAAAAACAAA  
 ATCTGCCCCACCTAGATCCTATTTAAAGTCTTTTAGAAGTGAGAGGAAAAGGCCGATAGTTGTAACG  
 CATGTGGTGCCTGTTCAAAGTCTGCATAAGGGGATCCCTGTACACTCGAACCGTTATTTATTTGATGATG  
 TAAAGTCATAGTGAGATGCTTACAGGAGAACCCGACACTAGCTAGAGAGTGTGCGTACCTGCAACATG  
 GGAACGAATTAGAGGAGACTGTCTTTGTGCTTGTGACCTAGTGCATATGCCCCCTTTAGTAGAATTGCA  
 AGGAACCGTGGGTGCCAGGACCGCATGAGTAGTTGCAAAGCAGTGAACCCAAGGAGGAATCAGAAACGA  
 GAAGGGACATGCCGGGGAGTTGCGCAAAACCAACCAACCATGACTGAACCATTTTGGATGTAAGAAG  
 CGCCTTGTGCTCACCACGTGTTCCAAAGACTGAGCGTCCGGGTCTCTCCGTCGCATACTTGTGCTGAC  
 TAAAGTAGCTGCTACCTAAGGGATATGTCTTTGCCAGTTGGACACAGGTGAACGGCTCCTAAGTCTCAT  
 GTTTGGTGAATTTGGGCTTCTACTTCCAAACATGGTTCATTGTAGATGATTTTACTGTTATCTGATGGA  
 GGGAAATTCGATGGCCATGACCAAAACGCATCTAAATGGGGGCAGATGGAGACCATAGACGGAATCTA  
 AAACAAAGCTGCCTTGTGTAAGGGAAGAGGGTGAAGTATCTTTAATCCCTTGTAAAGAAAAA AAAAAA

**Restriction Sites:** Ascl-NotI

**ACCN:** BC049086

**Insert Size:** 870 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).

**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:**

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: [BC049086](#), [AAH49086](#)

RefSeq Size: 2037 bp

RefSeq ORF: 870 bp

Locus ID: 12444

Cytogenetics: 6 61.92 cM

**Gene Summary:** Regulatory component of the cyclin D2-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 D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (By similarity).[UniProtKB/Swiss-Prot Function]