

## Product datasheet for MR206246

### Ccnb2 (NM\_007630) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnb2 (NM_007630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccnb2
Synonyms:	CycB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206246 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCGCTGCTCCGACGCCCGACGGTGTCCAGTGATTTGAAGAATATTGACACAGAAGTTATTCCTAAAG  
CCAAGAGCCATGTGACTATCCGGCGGGCAGTTTTAGAAGAAATTGGAAATAAAGTTAGAAACAGAACCAC  
TCAGGTGGCGAAGAAACCTCAGAACACCAAAGTACCAGCTCTGCCACCAAAGTGACAAATGTCAACAAG  
CAGCCGAAACCCACAGCCTCTGTGAAACCAGTGCAGATGGAGGCGCTAGCTCCCAAGGATCGTCTCCCG  
CCCCTGAGGATGTCTCCATGAAGGAAGAGAGCCTCTGCCAAGCTTCTCTGATGCTCTGCTGCAAGAT  
CGAGGACATAGATAACGAGGACAGGGAGAACCCTCAGCTCTGCAGTGACTACGTGAAGGACATCTACCAG  
TACCTCAGGCAGCTTGAGGTTTTACAGTCCATTAATCCCACTTCTTAGATGGAAGAGATATAAATGGAC  
GTATGCGTGCCATCCTGGTGGACTGGCTGGTCCAAGTCCATTCCAAGTTTCGGCTTCTGCAGGAACTCT  
GTACATGTGCATTGCCATCATGGACCGGTTCTGCAGGCTCAGCTGGTCTGCCGGAAGAACTGCAGCTG  
GTCGGGATCACAGCTCTGCTCCTGGCTTCCAAATATGAGGAGATGTTTTCTCAAATATCGAAGACTTTG  
TTATATCACAGATAATGCTTACACCAGTCCCAAATCCGAGAAATGGAGACTCTGATTTGAAAGAGTT  
GAAATTTGAGTTGGGCCGACCTTGGCACTTCACTTCTTAAGGCGAGCCTCAAAGCCGGAGAGGTGGAT  
GTTGAACAGCACACTTTAGCCAAGTACCTGATGGAGCTGACGCTCGACTATGACATGGTGCCTACTACC  
ATCCTTCTCAGGTGGCAGCCGCTGCTTGCCTGTCTCAGAAGGTGCTGGGCCAAGGAAATGGAATTT  
GAAGCAGCAGTATTACACAGGCTACATGGAGAGTGAAGTCTGGAAGTATGCAGCACATGGCCAAGAAC  
GTTGTGAAAGTCAATGACAACCGTACCAAGTTCATCGCTGTCAAGAACAAGTATGCCAGCAGCAGACTCC  
TGAAGATCAGCACGATCCCTCAGCTGAACTCCAAAATCATCAAAGACCTGGCCTCCCTCTGCTGGGCAG  
CCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206246 protein sequence  
 Red=Cloning site Green=Tags(s)

MALLRRPTVSSDLKNIDTEVIPKAKSHVTIRRAVLEEIGNKVRNRTTQVAKKPQNTKVPALPTKVTNVNK  
 QPKPTASVKPVQMEALAPKDRPPAPEDVSMKEESLQAFSDALLCKIEDIDNEDRENQQLCSDYVKDIYQ  
 YLRQLEVLQSIINPHFLDGRDINGRMRAILVDWLQVHHSKFRLLQETLYMCIAIMDRFLQAQLVCRKKLQL  
 VGITALLLASKYEEMFSPNIEDFVYITDNAYTSSQIREMETLILKELKELGRPLPLHFLRRASKAGEVD  
 VEQHTLAKYLMELTLVDYDMVHYHPSQVAAAASCLSQKVLGQGWNLKQYYTYGYMESEVLEVMQHMAKN  
 VYKVNDRNRTKFIIVKNKYASSRLLKISTIPQLNSKIIDLASPLLGSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007630

**ORF Size:** 1197 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [NM\\_007630.2](#), [NP\\_031656.2](#)

**RefSeq Size:** 1541 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 12442

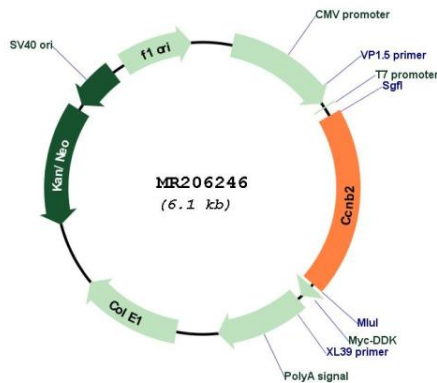
**UniProt ID:** [P30276](#)

**Cytogenetics:** 9 D

**MW:** 45.4 kDa

**Gene Summary:** Essential for the control of the cell cycle at the G2/M (mitosis) transition.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206246