

Product datasheet for **MR206857**

Ccnb1 (NM_172301) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnb1 (NM_172301) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccnb1
Synonyms:	Ccnb1-rs1; Ccnb1-rs13; Cycb-4; Cycb-5; CycB1; Cycb1-rs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206857 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCTCAGGGTCACTAGGAACACGAAAATTAACGCAGAAAATAAGGCCAAGGTCAGTATGGCAGGCG
 CCAAGCGTGTGCCTGTGACAGTTACTGCTGCTTCCAAGCCGGGCTGAGACCGAGAAGTCTCTGGAGA
 CATTGGTAATAAAGTCAGCGAAGAGCTACAGGCAAGAGTGCCTCTGAAAAGGGAAGCAAAAACGCTAGGT
 ACTGAAAAGGTACTGTTAAAGCCCTACAAAACCTGTAGAGAAGGTGCCTGTGTGTGAACCAGAGGTGG
 AACTTGCTGAGCCTGAGCCTGAACCTGAACATGTTAGAGAAGAGAAGCTTTCTCTGAACCTAT
 TTTGGTTGATAATCCCTCTCAAGCCCGATGGAACATCTGGATGTGCGCCTGCAGAAGAGTATCTGTGT
 CAGGCTTTCTCTGATGTAATCCTTGCAGTGAGTGACGTAGACGCAGATGATGGGGCTGACCCAAACCTCT
 GTAGTGAATATGTAAAGATATCTATGCTTATCTCCGACAACCTGGAGGAAGAGCAGTCAGTTAGACCAA
 ATACCTACAGGGTCGTGAAGTACTGGAACATGAGAGCTATCCTCATTGACTGGCTAATACAGGTTTCAG
 ATGAAATTTAGGCTGCTTCAGGAGACCATGTACATGACTGTGCCATTATTGATCGGTTTCATGCAGAACA
 GTTGTGTGCCAAGAAGATGCTACAGCTGGTCCGGTGAACGGCCATGTTTATTGCAAGCAATATAGAGGA
 GATGTACCCTCCAGAAATAGGTGACTTCGCCTTTGTGACTAACAAACACGTACACTAAGCACCAGATCAGA
 CAGATGGAGATGAAGATTCTCAGAGTTCTGAACCTCAGCCTGGGTGCGCCTCTGCCTCTGCACCTTCTCC
 GTAGAGCATCTAAAGTCGGAGAGGTTGACGTGAGCAGCACACTTTGGCCAAATACCTCATGGAGCTCTC
 CATGCTGGACTACGACATGGTGCATTTTGTCTTCTCAAATTGCAGCTGGGGCTTTCTGCTTAGCGCTG
 AAAATTTTGACAACGGTGAATGGACCAACTCTGCAGCACTACCTATCCTACAGTGAAGACTCCCTGC
 TTCCTGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTGAACCTGCGCCTCACAAAGCACATGACTGT
 CAAGAACAAGTATGCAGCATCTAAGCATGCTAAGATTAGCACGCTGGCACAGCTGAACTGTACACTAGTT
 CAGAATTTGTCTAAGGCCGTGACAAAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206857 protein sequence
 Red=Cloning site Green=Tags(s)

MALRVTRNTKINAENKAKVSMAGAKRVPVTVAASKPGLRPRALGDIGNKVSEELQARVPLKREAKTLG
 TGKGTVKALPKPVEKVPVCEPEVELAEPEPEPELEHVREEKLSPEPILVDNPPSPMETSGCAPAEYLC
 QAFSDVILAVSDVDADDGADPNLCSEYVKDIYAYLRQLEEEQSVRPKYLQGREVTGNMRAILIDWLIQVQ
 MKFRLLQETMYMTVSIIDRFMQNSCVPKKMLQLVGVAMFIASKYEEMYPPEIGDFAFVTNNTYTKHQIR
 QMEMKILRVLNFSLGRPLPLHFLRRASKVGEVDVEQHTLAKYLMELSMLDYDMVHFAPSQIAAGAFCLAL
 KILDNGEWPTLQHLYLSYSEDSLPLVMQHLAKNVVMVNCGLTKHMTVKNKYAASKHAKISTLAQLNCTLV
 QNLSKAVTKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_172301

ORF Size: 1293 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 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.

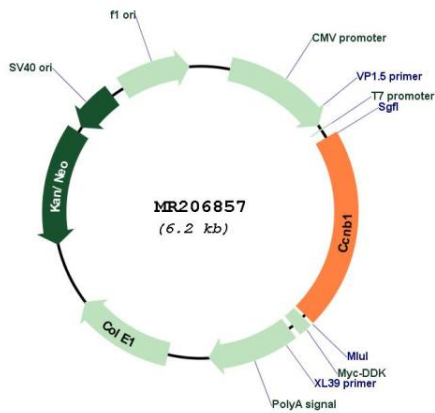
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_172301.2](#)

RefSeq Size:	2316 bp
RefSeq ORF:	1293 bp
Locus ID:	268697
UniProt ID:	P24860
Cytogenetics:	13 53.23 cM
MW:	48.1 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 MR206857