

## Product datasheet for **MG206857**

### Ccnb1 (NM\_172301) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnb1 (NM_172301) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccnb1
Synonyms:	Ccnb1-rs1; Ccnb1-rs13; Cycb-4; Cycb-5; CycB1; Cycb1-rs1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206857 representing NM_172301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTCAGGGTCACTAGGAACACGAAAATTAACGCAGAAAATAAGGCCAAGGTCAGTATGGCAGGCG  
CCAAGCGTGTGCCTGTGACAGTTACTGTGCTTCCAAGCCCGGGCTGAGACCGAGAAGTCTTGGAGA  
CATTGGTAATAAAGTCAGCGAAGAGCTACAGGCAAGAGTGCCTCTGAAAAGGGAAGCAAAACGCTAGGT  
ACTGAAAAGGTACTGTTAAAGCCCTACAAAACCTGTAGAGAAGGTGCCTGTGTGTGAACCAGAGGTGG  
AATTGCTGAGCCTGAGCCTGAACCTGAACCTGAACATGTTAGAGAAGAGAAGCTTCTCCTGAACCTAT  
TTTGGTTGATAATCCCTCTCCAAGCCCGATGGAACATCTGGATGTGCGCCTGCAGAAGAGTATCTGTGT  
CAGGCTTCTCTGATGTAATCCTTGCACTGAGTGACGTAGACGCAGATGATGGGGCTGACCCAAACCTCT  
GTAGTGAATATGTGAAAGATATCTATGCTTATCTCCGACAACCTGGAGGAAGAGCAGTCAGTTAGACCAAA  
ATACCTACAGGGTCGTGAAGTACTGGAACATGAGAGCTATCCTCATTGACTGGCTAATACAGGTTGAG  
ATGAAATTTAGGCTGCTCAGGAGACCATGTACATGACTGTGTCCATTATTGATCGGTTTCATGCAGAACA  
GTTGTGTGCCAAGAAGATGCTACAGCTGGTCCGTGTAACGGCCATGTTTATTGCAAGCAAATATGAGGA  
GATGTACCCTCCAGAAATAGGTGACTTCGCCTTTGTGACTAACAACACGTACACTAAGCACCAGATCAGA  
CAGATGGAGATGAAGATTCTCAGAGTTCTGAACCTCAGCCTGGGTGCGCCTCTGCCTCTGCCTTCTCCT  
GTAGAGCATCTAAAGTCGGAGAGGTTGACGTGAGCAGCACACTTTGGCCAAATACCTCATGGAGCTCTC  
CATGCTGGACTACGACATGGTGCATTTTCTCCTTCTCAAATTCAGCTGGGGCTTTCTGCTTAGCGCTG  
AAAATTCTTGACAACGGTGAATGGACCAACTCTGCAGCACTACCTATCCTACAGTGAAGACTCCCTGC  
TTCCTGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTGAAGTGTGGCCTCACAAAGCACATGACTGT  
CAAGAACAAGTATGCAGCATCTAAGCATGCTAAGATTAGCAGCTGGCACAGCTGAAGTGTACACTAGTT  
CAGAATTTGTCTAAGGCCGTGACAAAGGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206857 representing NM\_172301  
 Red=Cloning site Green=Tags(s)

MALRVTRNTKINAENKAKVSMAGAKRVPVTVTAASKPGLRPRRTALGDIGNKVSEELQARVPLKREAKTLG  
 TGKGTVKALPKPVEKVPVCEPEVELAEPEPEPELEHVREEKLSPEPILVDNPSPPMETSGCAPAEEYLC  
 QAFSDVILAVSDVDADDGADPNLCSEYVKDIYAYLRQLEEEQSVRPKYLQGREVTGNMRAILIDWLIQVQ  
 MKFRLLQETMYMTVSIIDRFMQNSCVPKKMLQLVGV TAMFIASKYEEMYPPEIGDFAFVTNNTYTKHQIR  
 QMEMKILRVLNFSLGRPLPLHFLRRASKVGEVDVEQHTLAKYLMELSMLDYDMVHFAPSQIAAGAFCLAL  
 KILDNGEWPTLQHYLSYSEDSLLPVMQHLAKNVVMVNCGLTKHMTVKNKYAASKHAKISTLAQLNCTLV  
 QNLSKAVTKA

TRTRPLE - GFP Tag - V

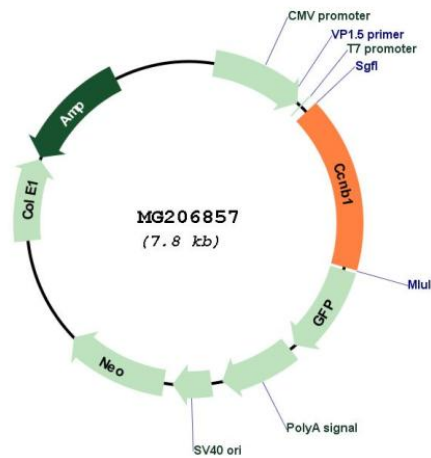
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_172301

<b>ORF Size:</b>	1290 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_172301.2</a>
<b>RefSeq Size:</b>	2316 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	268697
<b>UniProt ID:</b>	<a href="#">P24860</a>
<b>Cytogenetics:</b>	13 53.23 cM
<b>Gene Summary:</b>	Essential for the control of the cell cycle at the G2/M (mitosis) transition.[UniProtKB/Swiss-Prot Function]