

## Product datasheet for RC217591

### Cyclin B3 (CCNB3) (NM\_033031) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin B3 (CCNB3) (NM_033031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin B3
Synonyms:	CYCB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217591 representing NM_033031 Red=Cloning site Blue=ORF Green=Tags(s)

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ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217591 representing NM\_033031  
Red=Cloning site Green=Tags(s)

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LYLMAVCKKDKLQLLGATAFMIAAKFEHNSPRVDDFVYICDDNYQRSEVLSMEINILNVLKCDINIPI
AYHFLRRYARCIHTNMKTLTSLRYICEMTLQEYHYVQEKASKLAAASLLALYMKKLYGYPVFLHEHSGY
SISELHPLVRQLNKLTFSSYDSLKAVYKYSHPVVFEVAKIPALDMLKLEEILNCDCEAQGLVL
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8015\\_b05.zip](https://cdn.origene.com/chromatograms/mk8015_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



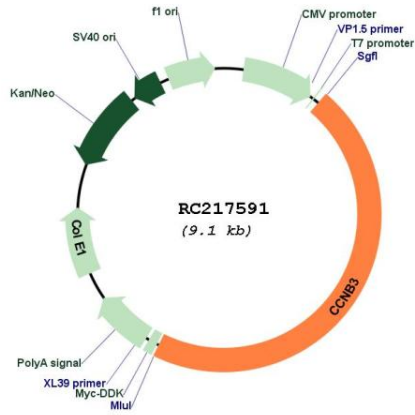
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_033031

**ORF Size:** 4185 bp

<b>OTI Disclaimer:</b>	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>
<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_033031.1</a> , <a href="#">NP_149020.1</a>
<b>RefSeq Size:</b>	4513 bp
<b>RefSeq ORF:</b>	4188 bp
<b>Locus ID:</b>	85417
<b>UniProt ID:</b>	<a href="#">Q8WWL7</a>
<b>Cytogenetics:</b>	Xp11.22
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cell cycle, p53 signaling pathway, Progesterone-mediated oocyte maturation
<b>MW:</b>	157.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as positive regulators of cyclin-dependent kinases (CDKs), and thereby play an essential role in the control of the cell cycle. Different cyclins exhibit distinct expression and degradation patterns, which contribute to the temporal coordination of each mitotic event. Studies of similar genes in chicken and drosophila suggest that this cyclin may associate with CDC2 and CDK2 kinases, and may be required for proper spindle reorganization and restoration of the interphase nucleus. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC217591