

# Product datasheet for SC110710

# Cyclin B3 (CCNB3) (NM\_033670) Human Untagged Clone

## **Product data:**

#### **Product Type: Expression Plasmids Product Name:** Cyclin B3 (CCNB3) (NM\_033670) Human Untagged Clone Tag: Tag Free Symbol: Cyclin B3 CYCB3 Synonyms: **Mammalian Cell** Neomycin Selection: Vector: PCMV6-Neo E. coli Selection: Ampicillin (100 ug/mL) >NCBI ORF sequence for NM\_033670, the custom clone sequence may differ by one or more **Fully Sequenced ORF:** nucleotides

Restriction Sites:	Notl-Notl
ACCN:	NM_033670
Insert Size:	2650 bp



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### OriGene Technologies, Inc.

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<b>ORIGENE</b> Cyclin B3 (CCNB3) (NM_033670) Human Untagged Clone – SC110710	
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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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 Met	<ul> <li>hod: 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> </ul>
RefSeq:	<u>NM 033670.1, NP 391990.1</u>
RefSeq Size:	1212 bp
RefSeq ORF:	1212 bp
Locus ID:	85417
UniProt ID:	Q8WWL7
Cytogenetics:	Xp11.22
Domains:	cyclin_C, CYCLIN, cyclin
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, p53 signaling pathway, Progesterone-mediated oocyte maturation

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### **GRIGENE** Cyclin B3 (CCNB3) (NM\_033670) Human Untagged Clone – SC110710

Gene Summary:The protein encoded by this gene belongs to the highly conserved cyclin family, whose<br/>members are characterized by a dramatic periodicity in protein abundance through the cell<br/>cycle. Cyclins function as positive regulators of cyclin-dependent kinases (CDKs), and thereby<br/>play an essential role in the control of the cell cycle. Different cyclins exhibit distinct<br/>expression and degradation patterns, which contribute to the temporal coordination of each<br/>mitotic event. Studies of similar genes in chicken and drosophila suggest that this cyclin may<br/>associate with CDC2 and CDK2 kinases, and may be required for proper spindle<br/>reorganization and restoration of the interphase nucleus. Alternatively spliced transcript<br/>variants encoding different isoforms have been described for this gene. [provided by RefSeq,<br/>Oct 2011]

Transcript Variant: This variant (1) lacks four consecutive in-frame coding exons compared to variant 3. This results in a shorter isoform (1) missing a 1104 aa internal protein segment compared to isoform 3.

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