

## Product datasheet for RC211260L4

#### OriGene Technologies, Inc.

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### Cyclin B2 (CCNB2) (NM\_004701) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Cyclin B2 (CCNB2) (NM\_004701) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Cyclin B2

**Synonyms:** HsT17299

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

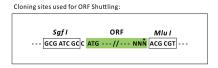
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211260).

Sequence:

Sgfl-Mlul

Restriction Sites: Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_004701

ORF Size: 1194 bp



#### Cyclin B2 (CCNB2) (NM\_004701) Human Tagged Lenti ORF Clone - RC211260L4

**OTI Disclaimer:** 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:** <u>NM 004701.2</u>

RefSeq Size:1566 bpRefSeq ORF:1197 bpLocus ID:9133

 UniProt ID:
 O95067

 Cytogenetics:
 15q22.2

**Domains:** cyclin C, CYCLIN, cyclin

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Cell cycle, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation

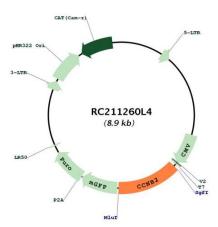
MW: 45.3 kDa

Gene Summary: Cyclin B2 is a member of the cyclin family, specifically the B-type cyclins. The B-type cyclins, B1

and B2, associate with p34cdc2 and are essential components of the cell cycle regulatory machinery. B1 and B2 differ in their subcellular localization. Cyclin B1 co-localizes with microtubules, whereas cyclin B2 is primarily associated with the Golgi region. Cyclin B2 also binds to transforming growth factor beta RII and thus cyclin B2/cdc2 may play a key role in transforming growth factor beta-mediated cell cycle control. [provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for RC211260L4