

## Product datasheet for RC213283L4

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OriGene Technologies, Inc.

### CTBP2 (NM\_022802) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: CTBP2 (NM\_022802) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: CTBP2

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

Sequence:

The ORF insert of this clone is exactly the same as(RC213283).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





**ACCN:** NM\_022802

ORF Size: 2955 bp



#### CTBP2 (NM\_022802) Human Tagged Lenti ORF Clone - RC213283L4

**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 022802.2</u>

RefSeq Size: 4752 bp
RefSeq ORF: 2958 bp
Locus ID: 1488
UniProt ID: P56545

Cytogenetics: 10q26.13

Protein Families: Stem cell - Pluripotency, Stem cell relevant signaling - Wnt Signaling pathway

Protein Pathways: Chronic myeloid leukemia, Notch signaling pathway, Pathways in cancer, Wnt signaling

pathway

**MW:** 106.6 kDa

**Gene Summary:** This gene produces alternative transcripts encoding two distinct proteins. One protein is a

transcriptional repressor, while the other isoform is a major component of specialized

synapses known as synaptic ribbons. Both proteins contain a NAD+ binding domain similar to NAD+-dependent 2-hydroxyacid dehydrogenases. A portion of the 3' untranslated region was

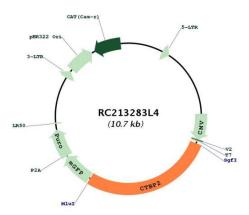
used to map this gene to chromosome 21q21.3; however, it was noted that similar loci elsewhere in the genome are likely. Blast analysis shows that this gene is present on

chromosome 10. Several transcript variants encoding two different isoforms have been found

for this gene. [provided by RefSeq, Feb 2014]



# **Product images:**



Circular map for RC213283L4