

# Product datasheet for RC207800L4

### OriGene Technologies, Inc.

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## Cardiotrophin 1 (CTF1) (NM\_001330) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Cardiotrophin 1 (CTF1) (NM\_001330) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Cardiotrophin 1

Synonyms: CT-1; CT1

Mammalian Cell Puromycin

Selection:

Vector:

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

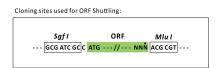
E. coli Selection: Chloramphenicol (34 ug/mL)

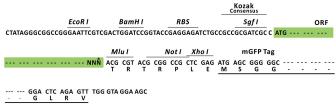
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC207800).

Sequence:

Sgfl-Mlul

Restriction Sites: Cloning Scheme:



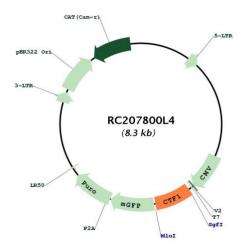


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_001330

ORF Size: 603 bp

**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 001330.2</u>

RefSeq Size: 1681 bp RefSeq ORF: 606 bp



### Cardiotrophin 1 (CTF1) (NM\_001330) Human Tagged Lenti ORF Clone - RC207800L4

Locus ID: 1489 UniProt ID: <u>Q16619</u>

Cytogenetics: 16p11.2

**Protein Families:** ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

MW: 21.2 kDa

**Gene Summary:** The protein encoded by this gene is a secreted cytokine that induces cardiac myocyte

hypertrophy in vitro. It has been shown to bind and activate the ILST/gp130 receoptor. Two transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Dec 2008]