

## Product datasheet for RC207800

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cardiotrophin 1 (CTF1) (NM\_001330) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cardiotrophin 1  
**Synonyms:** CT-1; CT1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC207800 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCCGGAGGGAGGGAAGTCTGGAAGACCCAGACTGATTCCTCAGTCTCACTTCTCCCACTTGG  
 AGGCCAAGATCCGTGAGACACAGCCTTGCGCACCTCTCACCAATACGCTGAGCAGCTGCTCCAGGA  
 ATATGTGAGCTCCAGGGAGACCCCTTCGGGCTGCCAGCTTCTCGCCGCGGGCTGCCGTGGCCGGC  
 CTGAGCGCCCGGCTCCGAGCCACGCGGGGCTGCCAGTGCACGAGCGGCTGCGGCTGGACCGCGCGCC  
 TGGCCGCGCTGCCCGCTGCTGGACGAGTGTGTGCGCCGAGCCGAGCTGAACCCGCGCGCCCGCG  
 CCTGCTGCGCCGCTGGAGGACGCGGCGCCAGGCCCGGGCCCTGGGCGCCGCGCTGGAGCCTTGCTG  
 GCCGCGCTGGGCGCCCAACCGCGGGCCCGGGCCGAGCCCCCGCCGACCCGCTCAGCCGCTCCG  
 CCACCGGGTCTTCCCGCAAGGTGCTGGGGTCCGCGTTTGCGGCTCTACCGGAGTGGCTGAGCCG  
 CACCGAGGGGACCTGGGCCAGCTGCTGCCCGGGGCTCGGCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207800 protein sequence  
 Red=Cloning site Green=Tags(s)

MSRREGSLEDPQTDSVSLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQGDPFGLPSFSPRLPVAG  
 LSAPAPSHAGLPVHERLRDAAALAALPPLLDVCCRQAEINPRAPRLRREDAARQARALGAAVEALL  
 AALGAANRGPRAEPPAATAASAATGVFPAKVLGLRVCGLYREWLSRTEGDLGQLLPGGSA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



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: [NM\\_001330.5](#)

RefSeq Size: 1681 bp

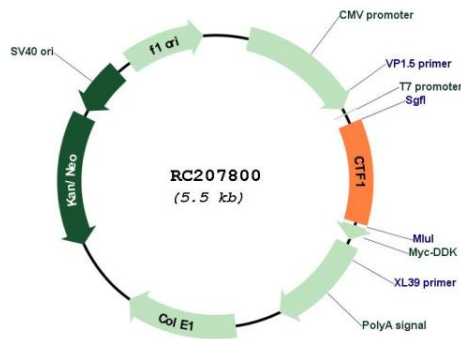
RefSeq ORF: 606 bp

Locus ID: 1489

UniProt ID: [Q16619](#)

<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>MW:</b>	21.2 kDa
<b>Gene Summary:</b>	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 receptor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

**Product images:**



Circular map for RC207800