

Product datasheet for **RG207800**

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: TurboGFP
Symbol: CTF1
Synonyms: CT-1; CT1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207800 representing NM_001330
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCGGAGGGAGGGAAGTCTGGAAGACCCAGACTGATTCCTCAGTCTCACTTCTTCCCACTTGG
 AGGCCAAGATCCGTGAGACACACAGCCTTGCGCACCTCTCACCAATACGCTGAGCAGCTGCTCCAGGA
 ATATGTGCAGCTCCAGGGAGACCCCTTCGGGCTGCCAGCTTCTCGCCGCGCGGCTGCCGGTGGCCGGC
 CTGAGCGCCCGGCTCCGAGCCACGCGGGGCTGCCAGTGCACGAGCGGCTGCGGCTGGACCGCGCGCGC
 TGCCCGCTGCCCGCTGCTGGACGCAGTGTGTCGCCGCCAGGCCGAGCTGAACCCGCGCGCGCGCGC
 CCTGCTGCGCCGCTGGAGGACGCGCGCGCCAGGCCCGGCCCTGGGCGCCGCGCTGGAGGCCTTGCTG
 GCCGCGCTGGGCGCCCAACCGCGGGCCCGGGCCGAGCCCCCGCGCCACCGCTCAGCCGCTCCG
 CCACCGGGTCTTCCCGCCAAGGTGCTGGGGCTCCGCGTTTGGCGCTCTACCGGAGTGGCTGAGCCG
 CACCGAGGGCAGCTGGGCCAGCTGCTGCCCGGGGCTCGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207800 representing NM_001330
 Red=Cloning site Green=Tags(s)

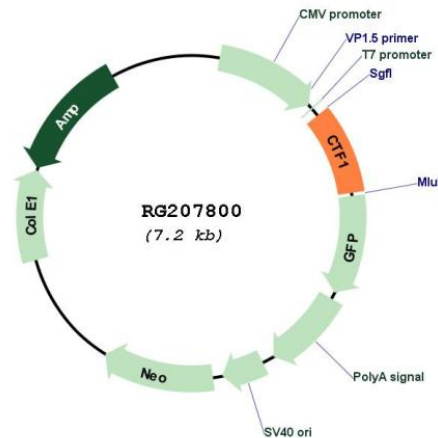
MSRREGSLEDPQTSSVSLLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQGDPLPSFSPRLPVAG
 LSAPAPSHAGLPVHERLRDAAALAAPLLDAVCRRAELNPRAPRLRLEDAARQARALGAAVEALL
 AALGAANRGPRAEPPAATAASAATGVFPAKVLGLRVCGLYREWLSRTEGDLGQLLPGGSA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

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: [NM_001330.5](#)

RefSeq Size: 1681 bp

RefSeq ORF: 606 bp

Locus ID: 1489

UniProt ID: [Q16619](#)

Cytogenetics: 16p11.2

Protein Families: ES Cell Differentiation/IPS, Secreted Protein

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

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 receptor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]