

Product datasheet for RC227238

Cardiotrophin 1 (CTF1) (NM_001142544) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cardiotrophin 1 (CTF1) (NM_001142544) 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: >RC227238 representing NM_001142544
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCGGAGGGAGGGAAGTCTGGACCCAGACTGATTCCTCAGTCTCACTTCTTCCCACTTGGAGG
 CCAAGATCCGTCAGACACACAGCCTTGCACCTCCTCACAAATACGCTGAGCAGCTGCTCCAGGAATA
 TGTGCAGCTCCAGGGAGACCCCTTCGGGCTGCCAGCTTCTCGCCGCCGGCTGCCGGTGGCCGGCCTG
 AGCGCCCGGCTCCGAGCCACCGGGGCTGCCAGTGCACGAGCGGCTGCGGCTGGACGCGCGCGCCTG
 CCGCGTGCCTCCGCTGCTGGACGAGTGTGTCGCCGCCAGGCCGAGCTGAACCCGCGCGCGCCGCGCT
 GCTGCGCCGCTGGAGGACGCGCGCGCCAGGCCCGGGCCCTGGGCGCCCGCTGGAGGCCCTTGTGGCC
 GCGCTGGGCGCCGCAACCGCGGGCCCGGGCCGAGCCCCCGCGCCACCGCCTCAGCCGCTCCGCCA
 CCGGGTCTTCCCGCAAGGTGCTGGGGCTCCGCGTTTGGCGCTCTACCGCGAGTGGCTGAGCCGCAC
 CGAGGGCGACCTGGGCCAGCTGCTGCCGGGGCTCGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227238 representing NM_001142544
 Red=Cloning site Green=Tags(s)

MSRREGSLDPQTDSSVSLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQGDPFGLPSFSPRLPVAGL
 SAPAPSHAGLPVHERLRDAAALAAPLLDAVCRRAELNPRAPRLRRLEDAARQARALGAAVEALLA
 ALGAANRGPRAEPPAATASAASATGVFPAKVLGLRVCGLYREWLSRTEGDLGQLLPGSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142544

ORF Size: 600 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_001142544.3](#)

RefSeq ORF: 603 bp

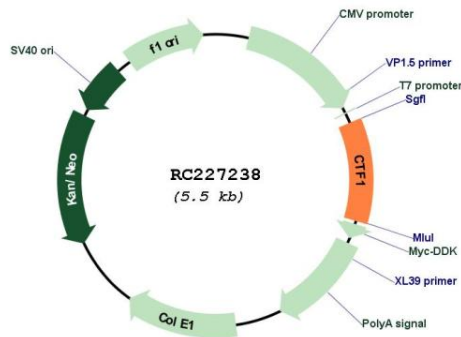
Locus ID: 1489

UniProt ID: [Q16619](#)

Cytogenetics: 16p11.2

Protein Families:	ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
MW:	20.9 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 receptor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RC227238