

## Product datasheet for **RC207458**

### CTRP4 (C1QTNF4) (NM\_031909) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CTRP4 (C1QTNF4) (NM\_031909) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** C1QTNF4  
**Synonyms:** CTRP4; ZACRP4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC207458 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGCCGTTCTGCTGGGCTGCTGGGCCAGCGGCTGCTGGGCCCTGGGCCGACCCCGGCCGG  
GATCCTCTGAGCTGCGCTCGGCTTCTCGGCGGCACGCACCACCCCTGGAGGGCAGTCGGAGATGGC  
GGTGACCTTCGACAAGGTGTACGTGAACATCGGGGGCGACTTCGATGTGGCCACCGGCCAGTTTCGTGC  
CGCGTGCCCGGCCCTACTTCTTCTCCTTACGGCTGGCAAGGCCCGCACAAGAGCCTGTCCGGTATGC  
TGGTGCGAAACCGCAGCAGGTCAGGGCTGGCCTTCGACGAGCAGCGCGGCCAGGCGCGGGCGCGC  
AGCCAGCCAGAGCGCCATGCTGCAGCTCGACTACGGCGACACAGTGTGGCTGCGGCTGCATGGCGCCCG  
CAGTACGCGCTAGGCGCGCCCGGCCACCTTCAGCGGCTACCTAGTCTACGCCGACGCCGACGCTGACG  
CGCCTGCGCGCGGGCCGCCCCGCGCCCCGAGCCGCGCTCGGCTTCTCGGCGCGCGCACGCGCAGCTT  
GGTGGGCTCGGACGCTGGCCCCGGGCGCGCACCAACCACTCGCCTTCGACACCGAGTTCGTCAACATT  
GGCGGCGACTTCGACGCGGCGGCGCGTGTCCGCTGCCGTCTGCCCGCGCCTACTTCTTCTCCTTCA  
CGCTGGGCAAGCTGCCGCGTAAGACGCTGTCCGTTAAGCTGATGAAGAACCAGCAGGAGTGCAGGCCAT  
GATTTACGACGACGCGCGTTCGCGCGCCGCGAGATGCAGAGCCAGAGCGTGATGCTGGCCCTGCGGCGC  
GGCGACGCGCTCTGGCTGCTCAGCCACGACCACGACGGCTACGGCGCCTACAGCAACCACGCAAGTACA  
TCACCTTCTCGGCTTCTGGTGTACCCCGACCTCGCCCCGCGGCCCGCGGGCTCGGGGCTCGGA  
GCTACTG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207458 protein sequence  
 Red=Cloning site Green=Tags(s)

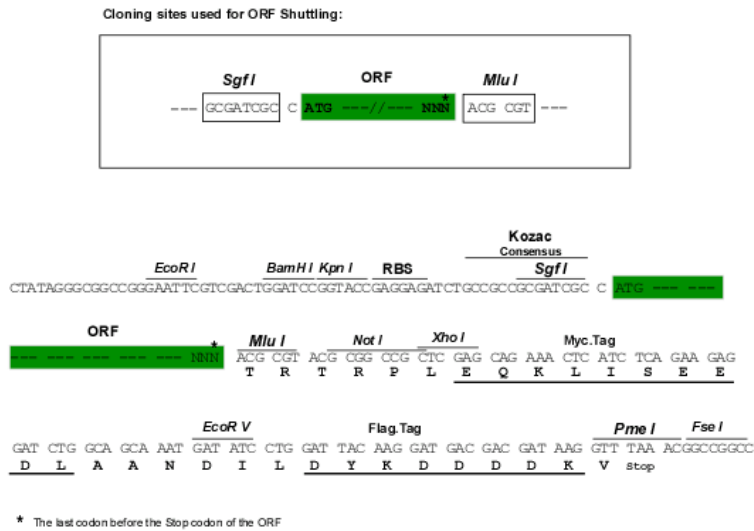
MLPLLLGLLGPAACWALGPTPGPGSSELRSFAFSAARTTPLEGTSEMAVTFDKVYVNIIGGDFDVATGQFRC  
 RVPGAYFFSFTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRHLHGAP  
 QYALGAPGATFSGYLVYADADADAPARGPPAPPEPRSAF SAARTRSLVGSDAGPGRHQPLAFDTEFVNI  
 GGDFDAAAGVFRCLPGAYFFSFTLGKLPKRTL SVKLMKNRDEVQAMIYDDGASRRREMQSQSVMLALRR  
 GDAVWLLSHDHDGYGAYSNHGKYITFSGFLVYPDLAPAAPPGLGASELL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

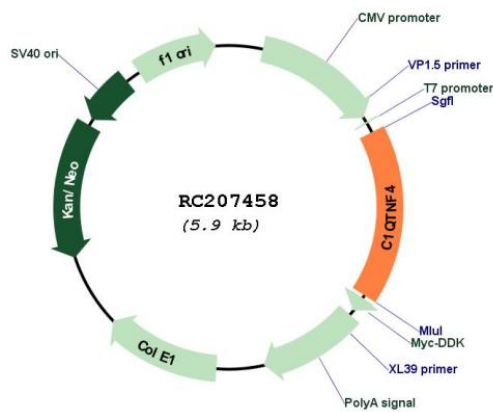
Chromatograms: [https://cdn.origene.com/chromatograms/mk6831\\_a03.zip](https://cdn.origene.com/chromatograms/mk6831_a03.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

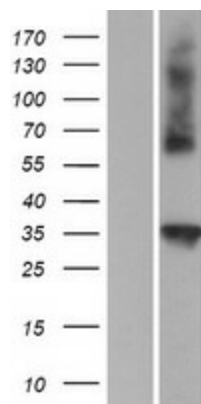


Plasmid Map:

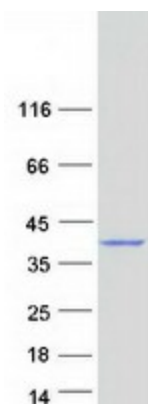


ACCN: NM\_031909

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 987 bp  |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_031909.3</a>   |
| <b>RefSeq Size:</b>           | 1436 bp   |
| <b>RefSeq ORF:</b>            | 990 bp  |
| <b>Locus ID:</b>              | 114900  |
| <b>UniProt ID:</b>            | <a href="#">Q9BXJ3</a>  |
| <b>Cytogenetics:</b>          | 11p11.2   |
| <b>Domains:</b>               | C1Q   |
| <b>Protein Families:</b>      | Secreted Protein  |
| <b>MW:</b>                    | 35.3 kDa  |
| <b>Gene Summary:</b>          | May be involved in the regulation of the inflammatory network. Its role as pro- or anti-inflammatory seems to be context dependent (PubMed:21658842, PubMed:27086950). Seems to have some role in regulating food intake and energy balance when administered in the brain. This effect is sustained over a two-day period, and it is accompanied by decreased expression of orexigenic neuropeptides in the hypothalamus 3 h post-injection (By similarity). [UniProtKB/Swiss-Prot Function]                     |

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY410444]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207458 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C1QTNF4 protein (Cat# [TP307458]). The protein was produced from HEK293T cells transfected with C1QTNF4 cDNA clone (Cat# RC207458) using MegaTran 2.0 (Cat# [TT210002]).