

## Product datasheet for **RG207458**

### 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:** TurboGFP  
**Symbol:** C1QTNF4  
**Synonyms:** CTRP4; ZACRP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG207458 representing NM\_031909  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCCGTTCTGCTGGGCTGCTGGGCCAGCGGCTGCTGGGCCCTGGGCCGACCCCGGCCGG  
 GATCCTCTGAGCTGCGCTCGGCCTTCTCGGCGGCACGCACCACCCCTGGAGGGCAGTCGGAGATGGC  
 GGTGACCTTCGACAAGGTGTACGTGAACATCGGGGGGACTTCGATGTGGCCACCGGCCAGTTTCGCTGC  
 CGCGTGCCCGGCCTACTTCTTCTCCTTACGGCTGGCAAGGCCCGCACAAAGAGCCTGTCGGTGATGC  
 TGGTGCAAACCGCGACGAGGTGCAGGCGCTGGCCTTCGACGAGCAGCGCGGCCAGGCGCGGGCGGC  
 AGCCAGCCAGAGCGCCATGCTGCAGCTCGACTACGGCGACACAGTGTGGCTGCGGCTGCATGGCGCCCCG  
 CAGTACGCGCTAGGCGCGCCCGCGCCACCTTCAGCGGCTACCTAGTCTACGCCGACGCCGACGCTGACG  
 CGCCTGCGCGCGGGCCGCCCCGCGCCCCGAGCCGCGCTCGGCCTTCTCGGCGGCGCGCACGCGCAGCTT  
 GGTGGGCTCGGACGCTGGCCCCGGGCGCGCACCAACCACTCGCCTTCGACACCGAGTTCGTAACATT  
 GGCGGCGACTTCGACGCGGCGCGCGCGTGTCCGCTGCCGTCTGCCGGCGCCTACTTCTTCTCCTTCA  
 CGCTGGCAAGCTGCCCGTAAGACGCTGTCGGTTAAGCTGATGAAGAACCAGCGACGAGGTGCAGGCCAT  
 GATTTACGACGACGGCGCGTCCGCGCGCGGAGATGCAGAGCCAGAGCGTGATGCTGGCCCTGCGGCGC  
 GGCGACCGCGTCTGGCTGCTCAGCCACGACCACGACGGCTACGGCGCCTACAGCAACCACGGCAAGTACA  
 TCACCTTCTCCGGCTTCTGGTGTACCCCGACCTCGCCCCCGCCCGCCCGGGGCTCGGGGCTCGGA  
 GCTACTG

**ACGCGT**ACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207458 representing NM\_031909  
 Red=Cloning site Green=Tags(s)

MLPLLLGLLGPAACWALGPTPGPGSSELRSFAFSAARTTPLEGTSEMAVTFDKVYVNIIGGDFDVATGQFRC  
 RVPGAYFFSFTAGKAPHKSLSVMLVRRNDEVQALAFDEQRRPGARRAASQSAMLQLDYGDVTWLRHLHGAP  
 QYALGAPGATFSGYLVYADADADAPARGPPAPPEPRSAF SAARTRSLVGS DAGPGRHQPLAFDTEFVNI  
 GGDFDAAAAGVFRCLPGAYFFSFTLGKLPKRTL SVKLMKNRDEVQAMIYDDGASRRREM QSQSVMLALRR  
 GDAVWLLSHDHDGYGAYSNHGKYITFSGFLVYVDLAPAAPPGLGASELL

TRTRPLE - GFP Tag - V

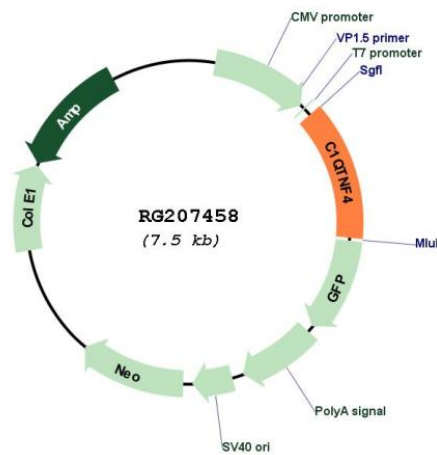
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_031909

**ORF Size:** 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>	1393 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>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]