

## Product datasheet for **RG203784**

### **C5R1 (C5AR1) (NM\_001736) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C5R1 (C5AR1) (NM_001736) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C5R1
Synonyms:	C5A; C5AR; C5R1; CD88
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203784 representing NM_001736 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACTCCTTCAATTATACCACCCCTGATTATGGGCACTATGATGACAAGGATACCTGGACCTCAACA  
CCCCTGTGGATAAACTTCTAACACGCTGCGTGTCCAGACATCCTGGCCTTGGTCATCTTTGCAGTCGT  
CTTCTGGTGGGAGTGTGGGCAATGCCCTGGTGGTCTGGGTGACGGCATTGAGGCCAAGCGGACCATC  
AATGCCATCTGGTTCCTCAACTGGCGGTAGCCGACTTCTCTCCTGCCTGGCGCTGCCATCTTGTTC  
CGTCCATTGTACAGCATCACCCTGGCCCTTTGGCGGGCCGCTGCAGCATCCTGCCCTCCCTCCTCCT  
GCTCAACATGTACGCCAGCATCCTGCTCCTGGCCACCATCAGCGCCGACCGCTTTCTGCTGGTGTAA  
CCCATCTGGTGGCAGAATTCCGAGGGGCGGCTTGGCCTGGATCGCCTGTGCCGTGGCTTGGGGTTAG  
CCCTGCTGCTGACCATACCCTCCTTCTGTACCGGGTGGTCCGGGAGGAGTACTTCCACCAAAGGTGTT  
GTGTGGCGTGGACTACAGCCACGACAAACGGCGGGAGCGAGCCGTGGCCATCGTCCGGCTGGTCTGGGC  
TTCCTGTGGCCTACTCAGCTCAGATTTGTTACACTTTCATCCTGCTCCGGACGTGGAGCCGAGGG  
CCACGCGTCCACCAAGACACTCAAGGTGGTGGTGGCAGTGGTGGCCAGTTTCTTATCTTCTGGTTGCC  
CTACCAGGTGACGGGATAATGATGTCTTCTGGAGCCATCGTACCCACCTTCTGCTGCTGAATAAG  
CTGGACTCCCTGTGTCTCCTTGGCTACATCAACTGCTGCTCAACCCATCATCTACGTGGTGGCCG  
GCCAGGGCTTCCAGGGCGACTGCGGAAATCCCTCCCCAGCCTCCTCCGGAACGTGTTGACTGAAGAGTC  
CGTGGTTAGGGAGAGCAAGTCATTACGCGCTCCACAGTGGACACTATGGCCAGAAGACCCAGGCAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203784 representing NM\_001736  
 Red=Cloning site Green=Tags(s)

MNSFNYYTPDYGHYDDKDTLDLNTFVDKTSNTRLRVPDILALVIFAVVFLVGVLGNALVVWVTAFAEKRTI  
 NAIWFLNLAVADFLSCLALPILFTSIVQHHHWPFGGAACSIPLSLILLNMYASILLLATISADRFLLVFK  
 PIWCQNFRGAGLAWIACAVAWGLALLLTIPSFLYRVVREEYFPPKVLGVDYSHDKRRERAVAIVRLVLG  
 FLWPLLTLTICYTFILLRTWSRRATRSTKTLKVVVAVVASFFIFWLPYQVTGIMMSFLEPSSPTFLLLNK  
 LDSLCVSFAYINCCINPIIYVVAGQGFQGRRLKSLPSLLRNVLTEESVRESKSFTRSTVDTMAQKTQAV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001736

**ORF Size:** 1050 bp

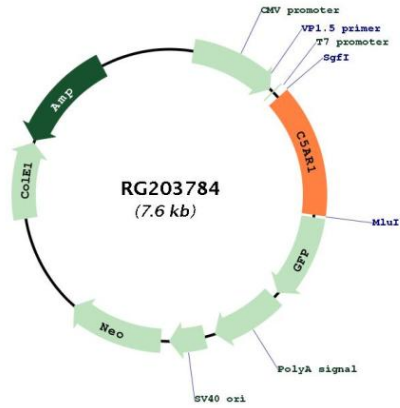
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_001736.3</a> , <a href="#">NP_001727.1</a>
<b>RefSeq Size:</b>	2342 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	728
<b>UniProt ID:</b>	<a href="#">P21730</a>
<b>Cytogenetics:</b>	19q13.32
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Complement and coagulation cascades, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed:1847994, PubMed:8182049, PubMed:7622471, PubMed:9553099, PubMed:10636859, PubMed:15153520, PubMed:29300009). The ligand interacts with at least two sites on the receptor: a high-affinity site on the extracellular N-terminus, and a second site in the transmembrane region which activates downstream signaling events (PubMed:8182049, PubMed:7622471, PubMed:9553099). Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859, PubMed:15153520).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203784