

## Product datasheet for **MG225064**

### C5ar1 (NM\_007577) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C5ar1 (NM_007577) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C5ar1
Synonyms:	C5aR; C5r1; Cd88; D7Msu1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225064 representing NM_007577 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCCATAGATAACAGCAGCTTTGAAATCAACTATGATCACTATGGAACCATGGATCCTAACATAC  
CTGCGGATGGCATTACCTCCCGAAGCGGCAACCTGGGGATGTTGCAGCCCTTATCATCTACTCGGTGGT  
GTTCTGGTGGGAGTACCCGGGAATGCCCTGGTGGTGTGGGTGACAGCCTTCGAGGCCAGACGGGCCGTC  
AACGCCATCTGGTTTCTGAATCTGGCGGTGGCCGACCTCCTCTCGTGCTTGGCACTGCCTGTCCTGTTCA  
CGACCGTTTTAAATCATAACTACTGGTACTTTGATGCCACCGCCTGTATAGTCCCGCCTCGCTCATCCT  
GCTCAACATGTACGCCAGTATCCTGCTGCTGGCTACCATTAGTGCCGACCGTTTCCTGCTGGTGTCAAG  
CCCATCTGGTGTGAGAAGGTCCGCGGGACTGGCCTGGCATGGATGGCTGTGGAGTGGCCTGGGTCTTAG  
CATTGCTCCTCACCATTCCATCCTTCGTGTACCGGGAGGCATATAAGGACTTCTACTCAGAGCACACTGT  
ATGTGGTATTAACATATGGTGGGGTAGCTTCCCAAAGAGAAGGCTGTGGCCATCCTGCGGCTGATGGTG  
GGTTTTGTGTGCCTCTGCTCACTCTAAACATCTGCTACACCTTCTCCTGCTCCGGACCTGGAGTCGA  
AGGCCACGCGTCCACCAAGACGCTCAAAGTGGTATGGCTGTGGTCATCTGTTTCTTTATCTTCTGGCT  
GCCCTATCAGGTGACCGGGGTGATGATAGCGTGGCTGCCCCGTCCTCGCCACCTTGAAGAGGGTGGAG  
AAGCTGAACCTCCCTGTGCGTGTCCCTGGCCTACATCAACTGTGTTAACCTATCATCTACGTCATGG  
CTGGCCAGGGTTTCCATGGACGACTCCTAAGGTCTCTCCCAGCATCATACGAAACGCTCTCTCTGAGGA  
TTCAGTGGGCAGGGATAGCAAGACTTTCCTCCGTCACGACGGACACCTCAACCCGGAAGATCAGGCG  
GTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225064 representing NM\_007577  
 Red=Cloning site Green=Tags(s)

MDPIDNSSFEINYDHYGTMDPNIPADGIHLPKRQPGDVAALIIYSVVFLVGVPGNALVVVWTAFEARRAV  
 NAIWFLNLAVADLLSCLALPVLFTTVLNHNYWYFDATAACIVLPSLILLNMYASILLLATISADRFLLVFK  
 PIWCQKVRGTGLAWMACGVAVWLALLLTIPSFVYREAYKDFYSEHTVCGINYGGSFPKEKAVAILRLMV  
 GFVLPPLLTLNICYTFLLLRWTRKATRSTKTLKVVMAVVICFFIFWLPYQVTGVMIAWLPPSSPTLKRVE  
 KLNSLCVSLAYINCCVNPIIYVMAGQGFHGRLLRSLPSIIRNALSEDSVGRDSKTFPSTTDTSTRKSQA  
 V

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1899\\_a07.zip](https://cdn.origene.com/chromatograms/ja1899_a07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007577

**ORF Size:** 1053 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_007577.4](#), [NP\\_031603.2](#)

**RefSeq Size:** 2481 bp

**RefSeq ORF:** 1056 bp

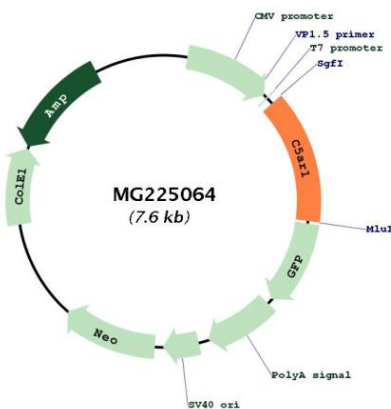
**Locus ID:** 12273

**UniProt ID:** [P30993](#)

**Cytogenetics:** 7 8.77 cM

**Gene Summary:** Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. 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. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG225064