

Product datasheet for MR223830

C5ar1 (NM_001173550) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C5ar1 (NM_001173550) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: C5ar1
Synonyms: C5aR; C5r1; Cd88; D7Msu1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223830 representing NM_001173550
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCCATAGATAACAGCAGCTTTGAAATCAACTATGATCACTATGGAACCATGGATCCTAACATAC
 CTGCGGATGGCATTACCTCCCGAAGCGGCAACCTGGGGATGTTGCAGCCCTTATCATCTACTCGGTGGT
 GTTCTGGTGGGAGTACCGGGAATGCCCTGGTGGTGTGGGTGACAGCCTTCGAGGCCAGACGGGCCGTC
 AACGCCATCTGGTTTCTGAATCTGGCGGTGGCCGACCTCCTCTCGTGCTGGCACTGCCTGTCCTGTTCA
 CGACCGTTTTAAATCATAACTACTGGTACTTTGATGCCACCGCCTGTATAGTCCTGCCCTCGCTCATCCT
 GCTCAACATGTACGCCAGTATCCTGCTGCTGGCTACCATTAGTGCCGACCGTTTCCTGCTGGTGTCAAG
 CCCATCTGGTGTGAGAAGGTCCGCGGGACTGGCCTGGCATGGATGGCTGTGGAGTGGCCTGGGTCTTAG
 CATTGCTCCTCACCATTCCATCCTTCGTGTACCGGGAGGCATATAAGGACTTCTACTCAGAGCACACTGT
 ATGTGGTATTAACATATGGTGGGGTAGCTTCCCAAAGAGAAGGCTGTGGCCATCCTGCGGCTGATGGTG
 GGTTTTGTGTGCCTCTGCTCACTCTAAACATCTGCTACACCTTCCTCCTGCTCCGGACCTGGAGTCGA
 AGGCCACGCGTCCACCAAGACGCTCAAAGTGGTATGGCTGTGGTCATCTGTTTCTTTATCTTCTGGCT
 GCCCTATCAGGTGACCGGGGTGATGATAGCGTGGCTGCCCCGCTCCTCGCCACCTTGAAGAGGGTGGAG
 AAGCTGAACCTCCCTGTGCGTGTCCCTGGCCTACATCAACTGTGTTAACCTATCATCTACGTCATGG
 CTGGCCAGGGTTTCCATGGACGACTCCTAAGGTCTCTCCCAGCATCATACGAAACGCTCTCTCTGAGGA
 TTCAGTGGGCAGGGATAGCAAGACTTTCCTCCGTCACGACGGACACCTCAACCCGGAAGATCAGGCG
 GTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223830 representing NM_001173550
Red=Cloning site Green=Tags(s)

MDPIDNSSFEINYDHYGTMDPNIPADGIHLPKRQPGDVAALIIYSVVFLVGVPGNALVVWVTAFEARRAV
 NAIWFLNLAVADLLSCLALPVLFTTVLNHNYWYFDATAACIVLPSLILLNMYASILLLATISADRFLLVFK
 PIWCQKVRGTGLAWMACGVAVWLALLLTIPSFVYREAYKDFYSEHTVCGINYGGSFPEKAVAILRLMV
 GFVLPDLLTLNICYTFLLLRWTRSRKATRSTKTLKVVMAVVICFFIFWLPYQVTGVMIAWLPPSSPTLKRVE
 KLNSLCVSLAYINCCVNP IIYVMAGQGFHGRLLRSLPSIIRNALSEDSVGRDSKTFPTSTDTSTRKSQA
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001173550

ORF Size: 1053 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_001173550.1](#), [NP_001167021.1](#)

RefSeq Size: 2540 bp

RefSeq ORF: 1056 bp

Locus ID: 12273

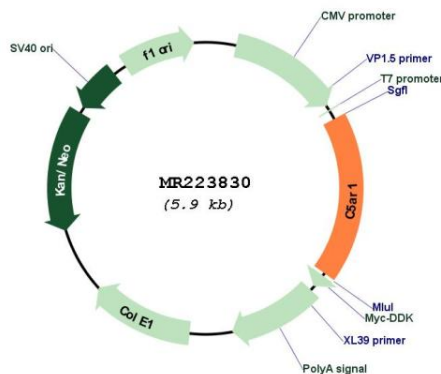
UniProt ID: [P30993](#)

Cytogenetics: 7 8.77 cM

MW: 39.5 kDa

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 MR223830