

Product datasheet for **RR211458**

C5ar1 (NM_053619) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C5ar1 (NM_053619) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: C5ar1
Synonyms: C5r1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR211458 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCATAAGTAACGACAGCAGTGAATCACCTATGATTACTCTGATGGAACCCAAATCCTGACA
TGCCTGCAGATGGCGTTTACATCCGAAGATGGAACCTGGGGACATTGCAGCCCTTATTACTACTTGGC
CGTGTTCCTGGTAGGAGTACCAGAAATGCCCTGGTGGTGTGGGTGACAGCCTTTGAGGCCAAACGTA
GTCAACGCCATTTGGTTTCTGAATCTGGCGGTGGCCGACCTCCTCTCGTGCTTGGCACTGCCTATCCTGT
TTACGTCCATTGTAAGCATAACCACTGGCCCTTCGGTGACCAGGCCTGTATAGTCCTGCCCTCGCTCAT
TCTGCTCAACATGTAAGCATAACCACTGGCCCTTCGGTGACCAGGCCTGTATAGTCCTGCCCTCGCTCAT
AAACCCATCTGGTGTGAGAAATCCGCCGGCTGGCCCTGGATGGCTTGGCGAGTAACCTGGGTCT
TAGCATTGCTCCTCACCATTCCGTCCTTCGTGTTCCGGCGGATACATAAGGACCCCTACTCAGATAGCAT
TCTATGTAATATTGACTATAGTAAGGGTCCGTTCTTCATAGAGAAGGCTATAGCCATCCTGCGGCTGATG
GTGGGTTTCGTGTTGCCTCTGCTCACTCTTAACATCTGCTACACCTTCTCCTGATCCGGACCTGGAGTC
GCAAGGCCACGCGCTCCACCAAGACGCTCAAAGTGGTGTGGCGGTGGTACATGTTTCTTTGTCTTCTG
GCTACCTACCAGGTAACAGGGGTGATATTAGCTTGGCTGCCCGGTCTCATCCACTTTTCAGTCAGTG
GAGAGGCTGAACCTCTTGTGCGTTTCCCTGGCCTACATCAACTGCTGTGTTAACCCATCATCTACGTCA
TGGCTGGCCAGGGTTTCCATGGGAGACTCCGAAGGTCACTCCCCAGCATCATACGAAACGTGCTCTCTGA
GGACTCCTTGGCAGGGACAGCAAGAGTTTCACTCGGTCCACGATGGATACCTCCACCCAGAAGAGTCAG
GCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR211458 protein sequence
Red=Cloning site Green=Tags(s)

MDPISNDSSEITYDYSDGTPNPDMPADGVYIPKMEPGDIAALIIYLAVFLVGVGTGNALVVWVTAFEAKRT
 VNAIWFLNLAVADLLSCLALPILFTSIVKHNHWPFQDQACIVLPSLILLNMYSSILLLATISADRFLLVF
 KPIWCQKFRRPGLAWMACGVTVWLALLLTIPSFVFRRIHKDPYSDSILCNIDYSKGPFFIEKAIAILRLM
 VGFVLPDLLNLNICYTFLLIRTWSRKATRSTKTLKVVMVAVVTCFFVFWLPYQVTGVILAWLPRSSSTFQSV
 ERLNSLCVSLAYINCCVNPPIIYVMAGQGFHGRLRRSLPSIIRNVLSEDSLGRDSKSFTRSTMDTSTQKSQ
 AV

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_053619

ORF Size: 1056 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_053619.1](#), [NP_446071.1](#)

RefSeq Size: 1772 bp

RefSeq ORF: 1059 bp

Locus ID: 113959

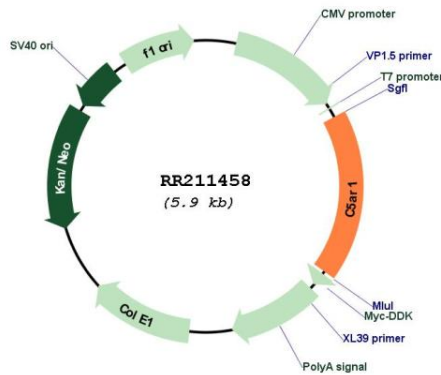
UniProt ID: [P97520](#)

Cytogenetics: 1q21

MW: 39.4 kDa

Gene Summary: binds complement component 5 and induces Ca²⁺ release from intracellular stores [RGD, Feb 2006]

Product images:



Circular map for RR211458