

Product datasheet for RC216008

CCR5 (NM_001100168) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CCR5 (NM_001100168) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CCR5 |
| Synonyms: | CC-CKR-5; CCCKR5; CCR-5; CD195; CKR-5; CKR5; CMKBR5; IDDM22 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC216008 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTATCAAGTGCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGCCAAAAATCA
ATGTGAAGCAAATCGCAGCCCGCTCCTGCCTCCGCTCTACTCACTGGTGTTCATCTTTGGTTTTGTGGG
CAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGGCTGAAGAGCATGACTGACATCTACCTGCTC
AACCTGGCCATCTCTGACCTGTTTTCTTCTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGT
GGGACTTTGAAATACAATGTGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTGGAATCTT
CTTCATCATCCTCCTGACAATCGATAGGTACCTGGCTGTGCTCCATGCTGTGTTTGTCTTAAAGCCAGG
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCCTCTCTCCAGGAA
TCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCTCATTTTCCATACAGTCAGTA
TCAATTCTGGAAGAATTTCCAGACATTAAGATAGTCACTTTGGGGCTGGTCTGCCGCTGCTTGTGCATG
GTCATCTGCTACTCGGAATCCTAAAACCTCTGCTTCGGTGTGCGAAATGAGAAGAAGAGGCACAGGGCTG
TGAGGCTTATCTTACCATCATGATTGTTTATTTCTTCTTCTGGGCTCCCTACAACATTGCTTCTCTCT
GAACACCTTCCAGGAATCTTTGGCCTGAATAATTGCAGTAGCTTAACAGGTTGGACCAAGCTATGCAG
GTGACAGAGACTTTGGGATGACGCATGCTGCATCAACCCCATCTATGCCTTTGTCCGGGAGAAGT
TCAGAAACTACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAAAGCTTCTGCAAAATGCTGTTCTATTTT
CCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTG
GGCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC216008 protein sequence
Red=Cloning site Green=Tags(s)

MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVIFGFVGNMLVILILINCKRLKSMTDIYLL
 NLAISDLFFLLVTPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKAR
 TVTFGVVTSVITWVVAVFASLPGIIFTRSQKEGLHYTCSSHPYYSQYQFWKNFQTLKIVILGLVLPLLVM
 VICYSGILKTLRCRNEKKRHRVRLIFTIMIVYFLFWAPYINIVLLLNTFQEFFGLNNCSSNRLDQAMQ
 VTETLGMTHCCINPIIYAFVGEKFRNYLLVFQKHIAKRFCKCCSIFQAEAPERASSVYTRSTGEQEISV
 GL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6271_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001100168

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_001100168.1](#), [NP_001093638.1](#)

RefSeq Size: 3451 bp

RefSeq ORF: 1059 bp

Locus ID: 1234

UniProt ID: [P51681](#)

Cytogenetics: 3p21.31

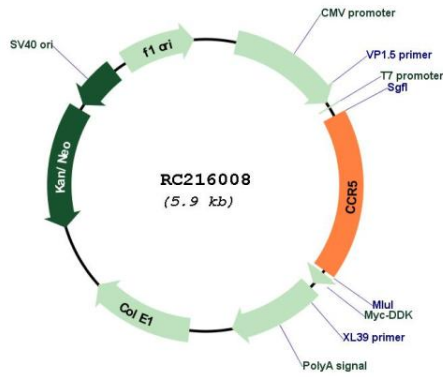
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis

MW: 40.5 kDa

Gene Summary: This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the functional allele. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC216008