

## Product datasheet for **SC110858**

### CCR5 (NM\_000579) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCR5 (NM_000579) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCR5
Synonyms:	CC-CKR-5; CCKR5; CCR-5; CD195; CKR-5; CKR5; CMKBR5; IDDM22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000579, RT-PCR generated

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ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG
TTCATCTTTGGTTTTGTGGGCAACATGCTGGTCACTCCTCATCCTGATAAACTGCAAAAGG
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT
CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAGCCAGG
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT
CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATC
TTGGGGCTGGTCTGCCGCTGCTTGTCATGGTCACTCTGCTACTCGGGAATCCTAAAACT
CTGCTTCGGTGTGCAAAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTTATCTTCACCATC
ATGATTGTTTATTTTCTTCTGGGCTCCCTACAACATTGTCCTTCTCCTGAACACCTTC
CAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAG
GTGACAGAGACTCTTGGGATGACGCACTGCTGCATCAACCCATCATCTATGCCTTTGTC
GGGGAGAAGTTCAGAACTACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTC
TGCAAATGCTGTTCTATTTTCCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTTACACC
CGATCCACTGGGAGCAGGAAATATCTGTGGGCTTGTA
  
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000579 unedited</p> <pre> TTGGAACCCAAGTACGGTATTTGTTACACNATACACTATAGGCGGCCGCGCAATCANATC TGGTACCGAGCTCGGCTCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCTTGATCG GAACAAGATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGA GCCCTGCCAAAAAATAATGTGAAGCANATCGCAGCCCGTCTTTTCTCCGCTCTACTCAC TGGTGATCATCTTTGGTTTTGAGGGCAACAAGCTGGGCCAACCCATTCCGAAAAACCGC CAAAGGGTTTAAAAAACAGGGTTTGATTTTAACGGGGTAAACCGGGGAAATTTTAAAGCG GGGTTTTTTTTTTTAAAGCCCCCTTTTGGGGGAAAAAATTTTTTCCCCCCCCCCC GGGGGGTTTGGTTAAAAAAGGGTTTTTTTTTTGTGGGGGGGGGGGGGGAN AATAAAAAAGGAAGGGGGGGGGGGGGGGGAAAAAATAATGACCTTTCCCC TCCCAAAAAAAAAAAAAAGAAAAAAGAATACGCTCGTGGGGGTGGGGATAGAA TGNGNAGAAAGAAAAAAGCACCCCCCACAACCTTTATACAATTGTGTGCGG GTGAAAGAAAAAATAATTTTCGCGGGGGGGGGGTTAGGTTNTTTATTTTTT TTANNNTNTNNCCTTTCTAAAGCCCCCTTTCTGTCCAATTATAGAGATAAGAAGTAA GAGGGTGAGGGGAGCGCGAGGGTCCTGCTCGCCTCCCTACACCTCTGATTTCCGCGG GGCGAAAGAAAACAAACGACAATAAAAAAAAAAAAAAC </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000579
<b>Insert Size:</b>	3700 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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_000579.1</a> , <a href="#">NP_000570.1</a>
<b>RefSeq Size:</b>	3655 bp
<b>RefSeq ORF:</b>	1059 bp

<b>Locus ID:</b>	1234
<b>UniProt ID:</b>	<a href="#">P51681</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
<b>Protein Pathways:</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (A) represents the longer transcript. Both variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by published experimental evidence.</p>