

## Product datasheet for **SC322997**

### CCR2 (NM\_001123396) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCR2 (NM_001123396) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCR2
Synonyms:	CC-CKR-2; CCR-2; CCR2A; CCR2B; CD192; CKR2; CKR2A; CKR2B; CMKBR2; MCP-1-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001123396, the custom clone sequence may differ by one or more nucleotides

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ATGCTGTCCACATCTCGTTCTCGGTTTATCAGAAATACCAACGAGAGCGGTGAAGAAGTCACCACCTTTT
TTGATTATGATTACGGTGCTCCCTGTCATAAAATTTGACGTGAAGCAAATGGGGCCCACTCCTGCCTCC
GCTCTACTCGCTGGTGTTCATCTTTGGTTTTGTGGCAACATGCTGGTCGTCTCATCTTAATAAACTGC
AAAAAGCTGAAGTGCTTGACTGACATTTACCTGCTCAACTGGCCATCTCTGATCTGCTTTTTCTTATTA
CTCTCCCATTGTGGGCTCACTCTGCTGCAAATGAGTGGGTCTTTGGGAATGCAATGTGCAAATTATTCAC
AGGGCTGTATCACATCGGTTATTTGGCGAATCTTCTCATCATCCTCCTGACAATCGATAGATACCTG
GCTATTGTCCATGCTGTGTTTGGCTTTAAAAGCCAGGACGGTCACCTTTGGGGTGGTGACAAGTGTGATCA
CCTGGTTGGTGGCTGTGTTTGTCTGTCCCAGGAATCATCTTTACTAAATGCCAGAAAGAAGATTCTGT
TTATGTCTGTGGCCCTTATTTTCCACGAGGATGGAATAATTTCCACACAATAATGAGGAACATTTTGGGG
CTGGTCTGCCGCTGCTCATCATGGTCATCTGCTACTCGGGAATCCTGAAAACCTGCTTCGGTGTGCGAA
ACGAGAAGAAGAGGCATAGGGCAGTGAGAGTCATCTTCACCATCATGATTGTTTACTTTCTCTTCTGGAC
TCCCTATAATATTGTCATTCTCCTGAACACCTTCAGGAATCTTCGGCCTGAGTAACTGTGAAAGCACC
AGTCAACTGGACCAAGCCACGCAGGTGACAGAGACTCTTGGGATGACTCACTGCTGCATCAATCCCATCA
TCTATGCCTTCGTTGGGGAGAAGTTCAGAAGGTATCTCTCGGTGTTCTTCCGAAAGCACATCACCAAGCG
CTTCTGCAAACAATGTCCAGTTTTCTACAGGGAGACAGTGGATGGAGTGACTTCAACAAACACGCCTTCC
ACTGGGGAGCAGGAAGTCTCGGCTGGTTATAA
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Restriction Sites:	Please inquire
ACCN:	NM_001123396



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<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>OTI Annotation:</b>	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><u><a href="#">NM_001123396.1</a></u>, <u><a href="#">NP_001116868.1</a></u></p>
<b>RefSeq Size:</b>	<p>2335 bp</p>
<b>RefSeq ORF:</b>	<p>1083 bp</p>
<b>Locus ID:</b>	<p>729230</p>
<b>UniProt ID:</b>	<p><u><a href="#">P41597</a></u></p>
<b>Cytogenetics:</b>	<p>3p21.31</p>
<b>Protein Families:</b>	<p>Druggable Genome, Transmembrane</p>
<b>Protein Pathways:</b>	<p>Chemokine signaling pathway, Cytokine-cytokine receptor interaction</p>

**Gene Summary:**

The protein encoded by this gene is a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The encoded protein mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This protein can also be a coreceptor with CD4 for HIV-1 infection. This gene is located in the chemokine receptor gene cluster region of chromosome 3. [provided by RefSeq, Aug 2017] Transcript Variant: This variant (B) differs in the 3' UTR and 3' coding region, compared to variant A. The resulting isoform (B) is shorter and contains a distinct C-terminus, compared to isoform A. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.