

## Product datasheet for SC118317

### MCP1 (CCL2) (NM\_002982) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCP1 (CCL2) (NM_002982) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCP1
Synonyms:	GDGF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; SCYA2; SMC-CF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118317 sequence for NM_002982 edited (data generated by NextGen Sequencing)

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ATGAAAGTCTCTGCCGCCCTTCTGTGCCTGCTGCTCATAGCAGCCACCTTCATCCCCAA
GGGCTCGCTCAGCCAGATGCAATCAATGCCCCAGTCACCTGCTGTATAACTTCACCAAT
AGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCAAGTGTCCC
AAAGAAGCTGTGATCTTCAAGACCATTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAG
AAGTGGTTTCAGGATTCCATGGACCACCTGGACAAGCAAACCCAACTCCGAAGACTTGA
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Clone variation with respect to NM\_002982.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002982 unedited GGGGTAGATTTGTAACACGATTCACTATAGGGCGCCGCGAAATCGGCACGAGGTAACCC AGAACATCCAATTCTCAAAGCTCGCACTCTCGCTCCAGCATGAAAGTCTCTGCC GCCCTTCTGTGCCTGCTGCTCATAGCAGCCACCTTCATCCCCAAGGGCTCGCTCAGCCA GATGCAATCAATGCCCCAGTCACCTGCTGTATAACTTCACCAATAGGAAGATCTCAGTG CAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCAAGTGTCCCAAGAAGCTGTGATC TTCAAGACCATTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAGAAGTGGGTTTCAGGAT TCCATGGACCACCTGGACAAGCAAACCCAACTCCGAAGACTTGAACACTCACTCCACAA CCCAAGAATCTGCAGCTAACTTATTTCCCTAGCTTTCCCAGACACCTGTTTTATTT TATTATAATGAATTTTGTGTTGATGTGAAACATTATGCCTTAAGTAATGTTAATTTCTT ATTTAAGCTATTGATGTTTTAAGTTATCTTTCATGGTACTAGCGCTTTCTACATACAGAG ACTTGGGGGAAATTGCTTTTCTCTTGAACCACAGTTCTACCCCTGGGATGCTTTGAGG GTCTTTGCAAGATCATTAAACAAAGAATTTTTTAAACATCCCAAGCATTGCTAAAAT AATATTGCGGAAATGAATATTTTGAACCATTACCCCAACAAATATATTTTTGTACAA AAAAAAAAAAAAACCTTACTTCTAAATGAGCCCCGGCCATTCTTTCCCTGACCACA CCCCGTGGGCTCCCTGTGAACCTCCCCAATGCCCTTCTGNCCCTGAAAGTTGCCATT CCATGCGCCACACCCCTGGCT
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002982 unedited CAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTTTGTACAAAAATATATTTATTTGGTGTAATAGTTACAAAATATTCATTTCCACAATAATATTTAGCAATGCATTGGAATGTTAAAAAA AATTCTTTGTATTAATGATTCTTGCAAAGACCCTCAAACATCCCAGGGGTAGAAGTGTG GTTCAAGAGGAAAAGCAATTTCCCAAGTCTCTGTATCTAAAAACACTAGTACCATGAA AGATAAACTTAAAACATCAATAACTTAAATAAGAATTAACATTACTTAAGGCATAATGTT TCACATCAACAAAACAAAATTCATTATAATAAAATAAAACAGGGTGTCTGGGGAAAGCTAG GGGAAAATAAGTTAGCTGCAGATTCTTGGGTTGTGGAGTGAGTGTCAAGTCTTCGGAGT TTGGGTTTGCTTGTCCAGGTGGTCCATGGAATCCTGAACCCACTTCTGCTTGGGGTCAGC ACAGATCTCCTTGGCCACAATGGTCTTGAAGATCACAGCTTCTTTGGGACACTTGCTGCT GGAGATTCTTCTATAGCTCGCGAGCCTCTGCACTGAGATCTTCTATTGGTGAAGTTATA ACAGCAGGTGACTGGNGCATTGATTGCATCTGGCTGAGCGAGCCCTTGGGGAATGAAGGT GGCTGCTATGAGCAGCAGGCACATGATGGCCGAGATACTCTCATGCNTGNAGCGAGAGT GCCAGCCTTAGTTTGAGAATTGGATGTTTCTGGGTTACCTCGTGCCCGATTTCCCGGCC GCCCTATAGTGAGTCGTATTACAAAATCCTGACGGTTCCTAAACGAGCTCTGCCTATTT AGACTNCCACCGACAGCCTACGNCCATTTGTGTAAACGGGGCCGGTTTTACGACTTTCC GAAGTCCCGTGTTTTGTTGCAAAAATCACTGCGTCATGGGTGAGACTCGAATCCCGGG GGTAAACGCTTCAGCCCTTGTGTCTGAAAACGTTACATGTATG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002982
<b>Insert Size:</b>	700 bp
<b>OTI Disclaimer:</b>	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.  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>
<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_002982.3</a> , <a href="#">NP_002973.1</a>

RefSeq Size:	760 bp
RefSeq ORF:	300 bp
Locus ID:	6347
UniProt ID:	<a href="#">P13500</a>
Cytogenetics:	17q12
Domains:	IL8
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway
Gene Summary:	<p>This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of N-terminal cysteine residues of the mature peptide. This chemokine is a member of the CC subfamily which is characterized by two adjacent cysteine residues. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. Elevated expression of the encoded protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection. [provided by RefSeq, Aug 2020]</p>