

## Product datasheet for **SC123724**

### MCP4 (CCL13) (BC008621) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | MCP4 (CCL13) (BC008621) Human Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | MCP4   |
| Synonyms:                 | chemokine (C-C; CK-beta-10; CKb10; MCP-4; MGC17134; monocyte chemoattractant protein 4; monocyte chemotactic protein 4; NCC-1; NCC1; new CC chemokine 1; SCYA13; SCYL1; small inducible cytokine A13; small inducible cytokine subfamily A (Cys-Cys), member 13  |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u>pCMV6-XL5</u>   |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| Fully Sequenced ORF:      | >OriGene sequence for BC008621 edited<br>AAGAAACATTGTGAAATCTCCAACCTTAAACCTTCAACATGAAAGTCTCTGCAGTGCTTC<br>TGTGCCTGCTGCTCATGACAGCAGCTTTCAACCCCGGGACTTGCTCAGCCAGATGCAC<br>TCAACGTCCCATCTACTTGCTGCTTACATTTAGCAGTAAGAAGATCTCCTTGAGAGGC<br>TGAAGAGCTATGTGATCACCACCAGCAGGTGTCCCAGAAGGCTGTCATCTTCAGAACCA<br>AACTGGGCAAGGAGATCTGTGCTGACCCAAAGGAGAAGTGGGTCCAGAATTATATGAAAC<br>ACCTGGGCCGGAAGCTCACACCCTGAAGACTTGAACCTGCTACCCCTACTGAAATCAA<br>GCTGGAGTACGTGAAATGACTTTTCCATTCTCCTCTGGCCTCCTTCTATGCTTTGGAA<br>TACTTCTACCATAATTTTCAAATAGGATGCATTTCGGTTTTGTGATTCAAATGACTATG<br>TGTTAAGTAATATTGGCTATTATTTGACTTGTTGCTGGTTGGAGTTATTTGAGTATTG<br>CTGATCTTTTCTAAAGCAAGGCCTTGAGCAAGTAGGTTGCTGTCTCTAAGCCCCCTCCC<br>TTCCACTATGAGCTGCTGGCAGTGGGTTTGTATTCGGTTCAGGGGTTGAGAGCATGCC<br>TGTGGGAGTCATGGACATGAAGGGATGCTGCAATGTAGGAAGGAGAGCTCTTTGTGAATG<br>TGAGGTGTTGCTAAATATGTTATTGTGAAAGATGAATGCAATAGTAGGACTGCTGACAT<br>TTTGCAGAAAATACATTTTATTTAAAATCTCCTAAAAAAAAAAAAAAAAAAAA |



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for BC008621 unedited<br>GGGCACTTNGATTTGTAATCCCACCTACTAAGGCGGCCGCGCATCCCGGGGTATCGTCGA<br>CCCACGGTCCGAAGAAACATTGTGAAATCTCCAACCTTAAACCTTCAACATGAAAGTCT<br>CTGCAGTGCTTCTGTGCCTGCTGCTCATGACAGCAGCTTCAACCCCAAGGGACTTGCTC<br>AGCCAGATGCACTCAACGTCCCCTACTTGTGCTTACATTTAGCAGTAAGAAGATCT<br>CCTTGCAAGAGGCTGAAGAGCTATGTGATCACCACCAGCAGGTGCCCCAGAAGGCTGTCA<br>TCTTCAGAACCAAACTGGGCAAGGAGATCTGTGCTGACCCAAAGGAGAAGTGGGTCCAGA<br>ATTATATGAAACACCTGGGCCGGAAAGCTCACACCCTGAAGACTTGAACCTGCTACCCC<br>TACTGAAATCAAGCTGGAGTACGTGAAATGACTTTTCCATTCTCCTCTGGCCTCCTCTTC<br>TATGCTTTGGAATACTTCTACCATAATTTTCAAATAGGATGCATTCGGTTTTGTGATTCA<br>AAATGTAATATGTGTTAAGTAATATTGGCTATTATTTGACTTGTGCTGGTTTGGAGTTT<br>ATTTGAGTATTGCTGATCTTTTCTAAAGCAAGGCCTTGAGCAAGTAGGTTGCTGTCTCTA<br>AGCCCCCTCCCTTCCACTATGAGCTGCTGGCAGTGGGTTTGTATTTCGGTTCCCAGGGGT<br>TGAGAGCATGCCTGTGGGAGTCATGGACATGAAGGGATGCTGCAATGTANGAAGGAGAGC<br>TCTTTGTGAATGTGAGGTGTTGCTAAATATGTTATTGTGAAAAAGATGAATGCATAGTAG<br>GACTGCTGACATTTTGCAGAAAATACATTTATTTTAAATCTCTAAAAAAAAAAAAAAAAAG<br>GCGGCCGCGGTA |
| <b>Restriction Sites:</b>           | Please inquire  |
| <b>ACCN:</b>                        | BC008621  |
| <b>Insert Size:</b>                 | 829 bp  |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <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>                      | <u><a href="#">BC008621.1</a></u> , <u><a href="#">AAH08621.1</a></u>   |
| <b>RefSeq Size:</b>                 | 829 bp  |
| <b>Locus ID:</b>                    | 6357  |
| <b>Cytogenetics:</b>                | 17q12   |
| <b>Protein Families:</b>            | Druggable Genome, Secreted Protein  |
| <b>Protein Pathways:</b>            | Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway  |

**Gene Summary:**

This antimicrobial gene is one of several Cys-Cys (CC) cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene displays chemotactic activity for monocytes, lymphocytes, basophils and eosinophils, but not neutrophils. This chemokine plays a role in accumulation of leukocytes during inflammation. It may also be involved in the recruitment of monocytes into the arterial wall during atherosclerosis. [provided by RefSeq, Sep 2014]