

## Product datasheet for **SC321689**

### MDC (CCL22) (NM\_002990) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MDC (CCL22) (NM_002990) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDC
Synonyms:	A-152E5.1; ABCD-1; DC/B-CK; MDC; SCYA22; STCP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_002990.3  
 CAGGACAGAGCATGGCTCGCCTACAGACTGCACTCCTGGTTGTCCTCGTCTCCTTGCTG  
 TGGCGCTTCAAGCAACTGAGGCAGGCCCTACGGCGCCAACATGGAAGACAGCGTCTGCT  
 GCCGTGATTACGTCCGTTACCGTCTGCCCTGCGCGTGGTAAACACTTCTACTGGACCT  
 CAGACTCCTGCCCCGAGGCTGGCGTGGTGTGTAACCTCAGGGATAAGGAGATCTGTG  
 CCGATCCCAGAGTGCCCTGGGTGAAGATGATTCTCAATAAGCTGAGCCAATGAAGAGCT  
 ACTCTGATGACCGTGGCCTTGGCTCCTCCAGGAAGGCTCAGGAGCCCTACCTCCCGCA  
 TTATAGCTGCTCCCCGCCAGAAGCCTGTGCCAACTCTCTGCATTCCCTGATCTCCATCCC  
 TGTGGCTGTACCCCTTGGTACCTCCGTGCTGCTACTGCCATCTCCCCCTGACCCCTCT  
 AACCCATCCTCTGCCTCCCTCCCTGCAGTCAGAGGGTCTGTTCCCATCAGCGATTCCCC  
 TGCTTAAACCCTTCCATGACTCCCCACTGCCCTAAGCTGAGGTGAGTCTCCCAAGCCTGG  
 CATGTGGCCCTCTGGATCTGGGTCCATCTCTGTCTCCAGCCTGCCACTTCCCTCATG  
 AATGTTGGGTTCTAGCTCCCTGTTCTCAAACCATACTACACATCCCCTTCTGGGTCT  
 TTGCTGGGATGTTGCTGACACTCAGAAAGTCCCACCACCTGCACATGTGTAGCCCCACC  
 AGCCCTCAAGGCATTGCTCGCCAAGCAGCTGGTAATTCATTTTCATGTATTAGATGTC  
 CCTGGCCCTCTGCCCCCTTAATAACCCTAGTCACAGTCTCCCGAGATTCTTGGGATT  
 TGGGGTTTTCTCCCCACCTCTCCACTAGTTGGACCAAGGTTTTCTAGCTAAGTACTCT  
 AGTCTCAAGCCTTAGCATAGAGCACTGCAGACAGGCCCTGGCTCAGAAATCAGAGCCCA  
 GAAAGTGGCTGCAGACAAAATCAATAAACTAATGTCCCTCCCCTCTCCCTGCCAAAAGG  
 CAGTTACATATCAATACAGAGACTCAAGGTCACTAGAAATGGGCCAGCTGGGTCAATGTG  
 AAGCCCCAAATTTGCCAGATTCACCTTCTTCCCCACTCCCTTTTTTTTTTTTTTTTTT  
 GAGATGGAGTTTTCGCTCTTGTCAACCACGCTGGAGTGAATGGTGTGGTCTTGGCTTATT  
 GAAGCCTCGCTCCTGGGTTCAAGTATTCTTGGCTCAGCCTCCTGAGTAGCTGGGA  
 TTACAGGTTCTGCTACCACGCCAGCTAATTTTTGTATTTTTAGTAGAGACGAGGCTTC  
 ACCATGTTGGCCAGGCTGGTCTCGAACTCCTGTCTCAGGTAATCCGCCACCTCAGCCT  
 CCCAAAGTGTGGGATTACAGGCGTGAGCCACAGTGCCTGGCCTTCCCTCTCCCCACT  
 CCCCCCCCAACTTTTTTTTTTTTTTTTATGGCAGGGTCTCACTCTGTGCGCCAGGCTGGA  
 GTGCAGTGGCGTATCTCGGCTCACTACAACCTCGACCTCCTGGGTTCAAGTATTCTCC  
 CACCCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGTGCCACTACGGCTGGCTAATTTT  
 TGTATTTTTAGTAGAGACAGTTTTACCATATTGGCCAGGCTGGTCTTGAACCTCTGACC  
 TCAAGTATCCACCTTCTGTGCTCCCAAAGTGTGAGATTACAGGCGTGAGCTATCAC  
 ACCCAGCCTCCCCCTTTTTTCCCTAATAGGAGACTCCTGTACCTTTCTTGGTTTTACCTA  
 TGTGTCGTGCTGCTTACATTTCTTCTCCCTCAGGCTTTTTTGGGTGGTCTCCCAAC  
 CTCCAATACCCAGGCTGGCCTCTTCAGAGTACCCCCATTCCACTTTCCTGCCTCCTT  
 CCTTAAATAGCTGACAATCAAATTCATGCTATGGTGTGAAAGACTACCTTTGACTTGGTA  
 TTATAAGCTGGAGTTATATATGATTTGAAAACAGAGTAAATACTTAAGAGGCCAAATAG  
 ATGAATGGAAGAATTTAGGAAGTGTGAGAGGGGACAAGGTGGAGCTTCTGGCCCTG  
 GGAGGAAGCTGGCTGTGGTAGCGTAGCGCTCTCTCTCTGTCTGTGGCAGGAGGCAAAG  
 AGTAGGGTGAATGAGTGAAGGAATCCTGGGTAGAGACCATTCTCAGGTGGTTGGGCCA  
 GGCTAAAGACTGGGATTTGGGTCTATCTATGCCTTTCTGGCTGATTTTTGTAGAGACGGG  
 GTTTTGCCATGTTACCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCGATCCTCCTGGCTC  
 AGCCTCCCAAAGTGTGGGATTACAGGCGTGAGTCACTGCGCCTGGCTTCTCTTCTCT  
 TGAGAAATATTCTTTTATACAGCAAGTATGGGACAGCAGTGTCCAGGTAAAGGACATA  
 AATGTTACAAGTGTCTGGTCTTTCTGAGGGAGGCTGGTGGCCTCTGCAGGGTATTTGA  
 ACCTGTGGAATTGGAGGAGGCCATTTCACTCCCTGAACCCAGCCTGACAAATCACAGTGA  
 GAATGTTACCTTATAGGCTTGTGTGGGCTCAGGTTGAAAGTGTGGGAGTGACTG  
 CCTAGGCATCCAGCTCAGTGTGTCATCCAGGCGCTGTGCTCCTCCCGAACCCAGGGTCAACC  
 TGCTGCCACAGGCACTAGAAGGACGAATCTGCCTACTGCCATGAACGGGGCCCTCAAG  
 CGTCTGGGATCTCCTTCTCCCTCCTGTCTGCTTGGCCCTCAGGACTGCTGGAAAAT  
 AAATCCTTTAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:**

Please inquire

<b>ACCN:</b>	NM_002990
<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>OTI Annotation:</b>	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.
<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="#">NM_002990.3</a></u> , <u><a href="#">NP_002981.2</a></u>
<b>RefSeq Size:</b>	2918 bp
<b>RefSeq ORF:</b>	282 bp
<b>Locus ID:</b>	6367
<b>UniProt ID:</b>	<u><a href="#">O00626</a></u>
<b>Cytogenetics:</b>	16q21
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
<b>Gene Summary:</b>	This antimicrobial gene is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. 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, dendritic cells, natural killer cells and for chronically activated T lymphocytes. It also displays a mild activity for primary activated T lymphocytes and has no chemoattractant activity for neutrophils, eosinophils and resting T lymphocytes. The product of this gene binds to chemokine receptor CCR4. This chemokine may play a role in the trafficking of activated T lymphocytes to inflammatory sites and other aspects of activated T lymphocyte physiology. [provided by RefSeq, Sep 2014]