

## Product datasheet for **RG206578**

### MDC (CCL22) (NM\_002990) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MDC (CCL22) (NM\_002990) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MDC  
**Synonyms:** A-152E5.1; ABCD-1; DC/B-CK; MDC; SCYA22; STCP-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206578 representing NM\_002990  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCGCTACAGACTGCACTCCTGGTTGCTCCTCGTCCTCTGCTGTGGCGTTCAAGCAACTGAGG  
CAGGCCCTACGGCGCAACATGGAAGACAGCGTCTGCTGCCGTGATTACGTCCGTTACCGTCTGCCCT  
GCGCGTGGTGAACACTTCTACTGGACCTCAGACTCCTGCCGAGGCTGGCGTGGTGTGCTAACCTTC  
AGGATAAGGAGATCTGTCCGATCCCAGAGTGCCTGGTGAAGATGATTCTCAATAAGCTGAGCCAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG206578 representing NM\_002990  
 Red=Cloning site Green=Tags(s)  
 MARLQTALLVVLVLLAVALQATEAGPYGANMEDSVCCRDRYVRYRLPLRVVKHFYWTSDSCPRPGVLLTF  
 RDKEICADPRVPWVKMILNKLSQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_002990

ORF Size: 279 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

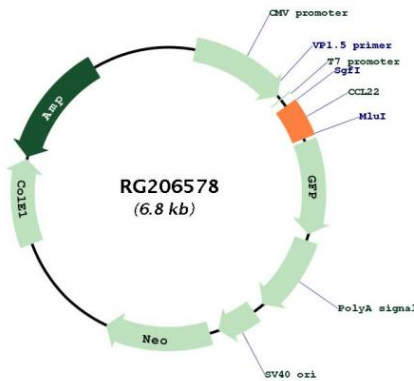
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_002990.2](#)

RefSeq Size: 2918 bp

RefSeq ORF:	282 bp
Locus ID:	6367
UniProt ID:	<u><a href="#">O00626</a></u>
Cytogenetics:	16q21
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
Gene Summary:	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]

**Product images:**



Circular map for RG206578