

Product datasheet for RC221610

MCP2 (CCL8) (NM_005623) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MCP2 (CCL8) (NM_005623) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MCP2
Synonyms: HC14; MCP-2; MCP2; SCYA8; SCYA10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221610 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGTTTCTGCAGCGCTTCTGTGCCTGCTGCTCATGGCAGCCACTTTCAGCCCTCAGGGACTTGCTC
 AGCCAGATTCAGTTTCCATTCCAATCACCTGCTGCTTTAACGTGATCAATAGGAAAATTCCTATCCAGAG
 GCTGGAGAGCTACACAAGAATCACCAACATCCAATGTCCAAGGAAGCTGTGATCTTCAAGACCAACGG
 GGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGATGGGTCAGGGATCCATGAAGCATCTGGACCAAAAT
 TTCAAAATCTGAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221610 protein sequence
 Red=Cloning site Green=Tags(s)
 MKVSAALLCLLLMAATFSPQGLAQPDSVSIPTCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTQR
 GKEVCADPKERWVRDSMKHLDQIFQNLKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6465_h10.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_005623

ORF Size: 297 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_005623.2](#), [NP_005614.2](#)

RefSeq Size: 1351 bp

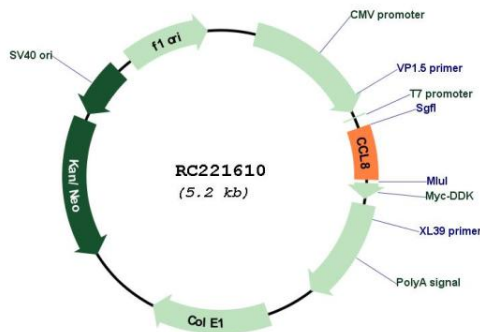
RefSeq ORF: 300 bp

Locus ID: 6355

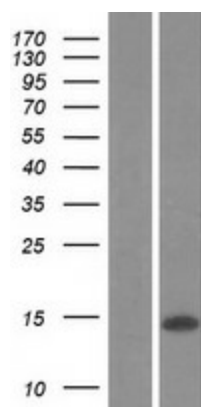
UniProt ID: [P80075](#)
Cytogenetics: 17q12
Domains: IL8
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway
MW: 11.2 kDa
Gene Summary:

This antimicrobial gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form 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, lymphocytes, basophils and eosinophils. By recruiting leukocytes to sites of inflammation this cytokine may contribute to tumor-associated leukocyte infiltration and to the antiviral state against HIV infection. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RC221610



Western blot validation of overexpression lysate (Cat# [LY417180]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221610 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).