

# **Product datasheet for RC213959**

#### OriGene Technologies, Inc.

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## Macrophage Inflammatory Protein 1 beta (CCL4L2) (NM 001001435) Human Tagged ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

Macrophage Inflammatory Protein 1 beta (CCL4L2) (NM\_001001435) Human Tagged ORF **Product Name:** 

Clone

Tag: Myc-DDK

Symbol: Macrophage Inflammatory Protein 1 beta

Synonyms: AT744.2; CCL4L; LAG-1; LAG1; SCYA4L

Mammalian Cell

Selection:

Neomycin

pCMV6-Entry (PS100001) Vector: E. coli Selection: Kanamycin (25 ug/mL) **ORF Nucleotide** >RC213959 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAAGCTCTGCGTGACTGTCCTGTCTCTCCTCGTGCTAGTAGCTCCTCTCTGCTCTCTAGCACTCTCAG CACCAATGGGCTCAGACCCTCCCACCGCCTGCTTTTCTTACACCGCGAGGAAGCTTCCTCACAACTT AAGCAAGTCTGCGCCGACCCCAGTGAGTCCTGGGTCCAGGAGTACGTGTATGACCTGGAACTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC213959 protein sequence **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MKLCVTVLSLLVLVAAFCSLALSAPMGSDPPTACCFSYTARKLPHNFVVDYYETSSLCSQPAVVFQTKRG

KQVCADPSESWVQEYVYDLELN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6547 a12.zip

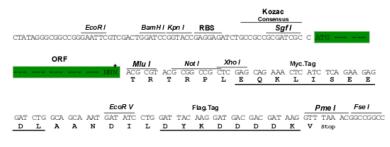
**Restriction Sites:** Sgfl-Mlul



#### **Cloning Scheme:**

ORIGENE





The last codon before the Stop codon of the ORF

ACCN: NM\_001001435

**ORF Size:** 276 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 001001435.2, NP 001001435.1

RefSeg Size: 674 bp RefSeq ORF: 278 bp Locus ID: 9560 Cytogenetics: 17q12

**Protein Families:** Druggable Genome, Transmembrane



**Protein Pathways:** Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing

pathway

MW: 10.1 kDa

**Gene Summary:** This gene is one of several cytokine genes that are clustered on the q-arm of chromosome 17.

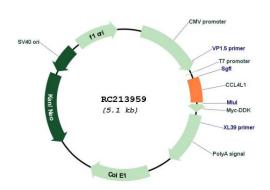
Cytokines are a family of secreted proteins that function in inflammatory and

immunoregulatory processes. The protein encoded by this family member is similar to the chemokine (C-C motif) ligand 4 product, which inhibits HIV entry by binding to the cellular receptor CCR5. The copy number of this gene varies among individuals, where most

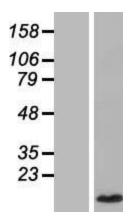
individuals have one to five copies. This gene copy contains a non-consensus splice acceptor site at the 3' terminal exon found in other highly similar gene copies, and it thus uses other alternative splice sites for the 3' terminal exon, resulting in multiple transcript variants.

[provided by RefSeq, Apr 2014]

### **Product images:**

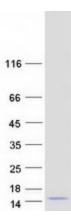


Circular map for RC213959



Western blot validation of overexpression lysate (Cat# [LY424353]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213959 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified CCL4L1 protein (Cat# [TP313959]). The protein was produced from HEK293T cells transfected with CCL4L1 cDNA clone (Cat# RC213959) using MegaTran 2.0 (Cat# [TT210002]).