

Product datasheet for **RC211322**

PF4 (NM_002619) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PF4 (NM_002619) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PF4
Synonyms: CXCL4; PF-4; SCYB4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC211322 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCGCAGCCGGTTCTGCGCCTCACGCCCGGGCTGCTGTTCTGGGGTTGCTGCTCCTGCCAC
TTGTGGTCGCCTTCGCCAGCGCTGAAGCTGAAGAAGATGGGGACCTGCAGTGCCTGTGTGAAGACCAC
CTCCCAGGTCCGTCCCAGGCACATCACCAGCCTGGAGGTGATCAAGGCCGACCCCACTGCCCACTGCC
CAACTGATAGCCACGCTGAAGAATGGAAGGAAAATTTGCTTGGACCTGCAAGCCCGCTGTACAAGAAAA
TAATTAAGAAACTTTTGGAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211322 protein sequence
Red=Cloning site Green=Tags(s)
MSSAAGFCASRPGLLFLGLLLLPLVVAFAAEAEEDGDLQCLCVKTTSSQVRPRHITSLEVIKAGPHCPTA
QLIATLKNRGIICLDLQAPLYKKI IKLLLES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6010_b11.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_002619

ORF Size: 303 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_002619.4](#)

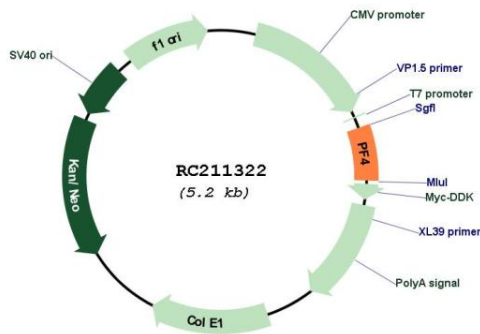
RefSeq Size: 878 bp

RefSeq ORF: 306 bp

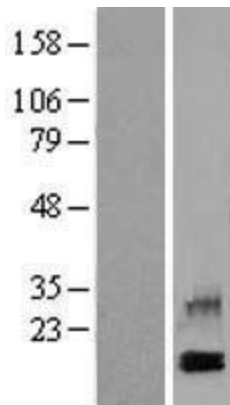
Locus ID: 5196

UniProt ID: [P02776](#)
Cytogenetics: 4q13.3
Protein Families: Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction
MW: 10.8 kDa
Gene Summary: This gene encodes a member of the CXC chemokine family. This chemokine is released from the alpha granules of activated platelets in the form of a homotetramer which has high affinity for heparin and is involved in platelet aggregation. This protein is chemotactic for numerous other cell type and also functions as an inhibitor of hematopoiesis, angiogenesis and T-cell function. The protein also exhibits antimicrobial activity against Plasmodium falciparum. [provided by RefSeq, Oct 2014]

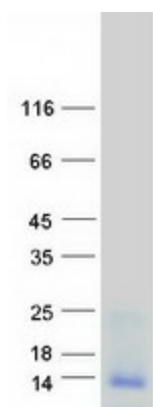
Product images:



Circular map for RC211322



Western blot validation of overexpression lysate (Cat# [LY400930]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PF4 protein (Cat# [TP311322]). The protein was produced from HEK293T cells transfected with PF4 cDNA clone (Cat# RC211322) using MegaTran 2.0 (Cat# [TT210002]).