

Product datasheet for RC220116

PF4V1 (NM_002620) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PF4V1 (NM_002620) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PF4V1
Synonyms: CXCL4L1; CXCL4V1; PF4-ALT; PF4A; SCYB4V1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220116 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCCGCAGCCAGGTCCCGCCTACCCGCGCCACCCGCCAGGAGATGCTGTTCTTGCGTTGCTGC
 TCCTGCCAGTTGTGGTCGCCTTCGCCAGAGCTGAAGCTGAAGAAGATGGGACCTGCAGTGCCTGTGTGT
 GAAGACCACCTCCAGGTCCGTCGCCAGGCACATCACCAGCCTGGAGGTGATCAAGCCGGACCCACTGC
 CCCACTGCCAACTCATAGCCACGCTGAAGAATGGGAGGAAAATTTGCTTGGATCTGCAAGCCCTGCTGT
 ACAAGAAAATCATTAAAGGAACATTTGGAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220116 protein sequence
 Red=Cloning site Green=Tags(s)
 MSSAARSRLTRATRQEMFLALLLLPVVAVAFARAEAEEDGDLQCLCVKTTSQVRPRHITSLEVIKAGPHC
 PTAQLIATLKNRGIICLDLQALLYKKIIEKHLES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6469_a12.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_002620

ORF Size: 312 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

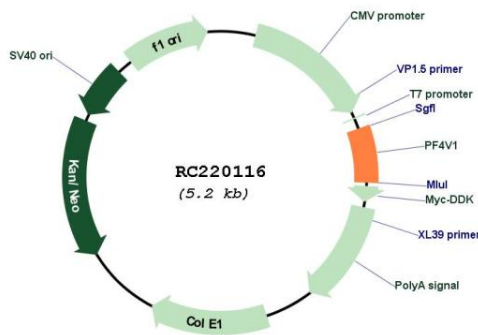
RefSeq: [NM_002620.4](#)

RefSeq Size: 741 bp

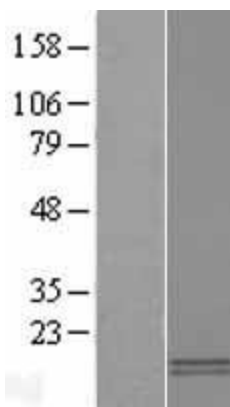
RefSeq ORF: 315 bp

Locus ID: 5197
UniProt ID: [P10720](#)
Cytogenetics: 4q13.3
Protein Families: Secreted Protein
Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction
MW: 11.6 kDa
Gene Summary: The protein encoded by this gene is a chemokine that is highly similar to platelet factor 4. The encoded protein displays a strong antiangiogenic function and is regulated by chemokine (C-X-C motif) receptor 3. This protein also impairs tumor growth and can protect against blood-retinal barrier breakdown in diabetes patients. [provided by RefSeq, Nov 2015]

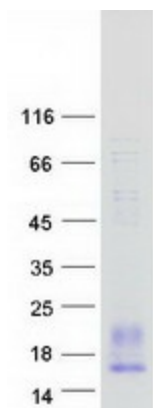
Product images:



Circular map for RC220116



Western blot validation of overexpression lysate (Cat# [LY419209]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220116 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PF4V1 protein (Cat# [TP320116]). The protein was produced from HEK293T cells transfected with PF4V1 cDNA clone (Cat# RC220116) using MegaTran 2.0 (Cat# [TT210002]).